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#### ENHANCING THE AUDITOR'S FRAUD DETECTION ABILITY: AN INTERDISCIPLINARY APPROACH

BY

Maria Krambia Kapardis (B.Ec., M.Bus, ACA)

A Thesis Submitted in Partial Fulfilment of the Requirements for the Award of

Doctor of Philosophy (Business)

at the Faculty of Business, Edith Cowan University

Date of Sübmission: February 1999

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#### ABSTRACT

A contemporary issue of concern to both external auditors and financial statement users is fraud-detection by auditors. The ability of auditors to detect material irregularities, including fraud, should be enhanced to enable them to apply "reasonable skill and care" in carrying out the audit. Such proficiency in fraud detection is needed if the profession is to avoid costly litigation, ever-increasing indemnity insurance and erosion of the profession's credibility. The thesis maintains that such enhancement can be achieved if auditors both utilise knowledge about the actiology of fraud in psychology, sociology and criminology as well as by synthesising a broad range of approaches to fraud detection.

The multidisciplinary discussion of the aeticlogy of fraud enabled the development of a three-component model. The model's three components are: rationalisations (R), opportunity (O) and a crime-prone motivated person (P), hence the acronym ROP. Next, a close examination of relevant auditing guidelines and a number of fraud detection models that have been proposed were used to develop an eclectic fraud detection model (with the ROP model as one of its components).

The applicability of the ROP model was determined in a study of 50 major fraud cases investigated and prosecuted by the Major Fraud Group (MFG) of the Victoria police. The study identified a number of inter-relationships between offence, offender and victim characteristics. The findings obtained also confirmed the applicability of the model in the field and yielded a two-level criminal profile of serious fraud offenders which includes a new taxonomy of such offenders. The taxonomy consists of twelve specific typologies. In addition, the MFG study findings cast doubt (1) on Gottfredson and Hirschi's (1990) assertion in their *General Theory of Crime* that white-collar offenders are not significantly different from common offenders and (2) on a basic premise of Loebbecke et al.'s (1989) fraud risk-assessment model that all three components of their model need to be present for fraud to occur.

The experience of auditors with detecting six different types of material irregularities, including management fraud, employee fraud and error, was investigated in a postal survey of 108 auditors. The findings provide support for the applicability of the eelectic fraud detection model. The survey also found that: it is rare for even experienced auditors to encounter material irregularities; that different types of irregularity (e.g., management fraud) occur more frequently in some industries (manufacturing and construction) than in others; the irregularity is likely to take one form (e.g., window dressing and misappropriation of funds) rather than another; and management review and tests of controls are more likely to alert an auditor to the existence of management fraud. In support of earlier research findings, data analysis revealed that the lack of an effective internal control system and the absence of a code of corporate conduct are statistically significant correlates of an irregularity having a material impact on the

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financial accounts of a company. In contrast to claims by Loebbecke et al. (1989), the survey findings show that fraud risk-assessment utilising red flags alone is not effective and the presence of only two (and not all three) of their model's components need to be present for management fraud to occur.

Both the ROP model and the eelectic fraud detection model were further refined in the light of the findings from the two empirical studies. Without ignoring limitations of the two surveys, the work reported in the present thesis sheds new light on the aetiology of fraud, shows that neither audit experience nor red flags alone is sufficient to improve auditors' fraud detection performance and provide another dimension to fraud risk-assessment. The new knowledge should be added to the auditor's armoury to enhance the audit effectiveness and efficiency and to reduce the fraud detection component of the expectation gap.

3

Declaration

I certify that this thesis does not incorporate without acknowledgement any material previously submitted for a degree or diploma in any institution of higher education; and that to the best of my knowledge and belief it does not contain any material previously published or written by another person except where due reference is made in the text.

Signature

Date 29 November

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#### Acknowledgements

This dissertation would not have been possible without the assistance received from numerous sources.

In particular, I owe a debt to my supervisor, Professor Gary S. Monroe, for guiding me through the various drafts.

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Third, I would like to thank Commander Allen Bewles for permitting me access to Victoria Police files on major fraud to enable me to carry out one of the two components of my empirical research and all the detectives who assisted in locating the files and discussed particular cases with me.

Fourth, I am grateful to all those accountants who responded to my questionnaire.

Finally, I must mention that this dissertation would not have been possible without the moral support, patience and understanding of my husband, children and parents.

Of course, none of the individuals mentioned are responsible for any weaknesses, mistakes or opinions expressed in this thesis.

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#### ABBREVIATIONS

AAERs Securities and Exchange Commission and Auditing Enforcement

Releases (U.S.)

AICPA American Institute of Certified Public Accountants

APB Auditing Practices Board (U.K)

ASC Australian Securities Commission

ASCPA Australian Society of Certified Practising Accountants

AUS Auditing Standards (Australia)

AuSB Auditing Standards Board (Australia)

COSO Commission on Sponsoring Organisations of the Treadway

Ġ.

Commission (U.S)

CICA Canadian Institute of Chartered Accountants

DPP Director of Public Prosecutions

ICAA The Institute of Chartered Accountants in Australia

ICAEW Institute of Chartered Accountants of England and Wales

IFAC International Federation of Accountants

MFG Major Fraud Group of the Victoria Police

NCA National Crime Authority

NCSC National Companies and Securities Commission

NZSA New Zealand Society of Accountants

ROP ROP Model

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#### CHAPTER I

#### INTRODUCTION

#### CHAPTER SUMMARY

This chapter discusses auditors' responsibilities for fraud detection and provides a motivation for the studies reported in this thesis.

#### 1.0 BACKGROUND AND MOTIVATION FOR THE RESEARCH

The Australian Accounting Research Foundation AUS 210 (AARF) (1995a, para.05(a)), defines fraud "as any act which involves the use of deception to obtain an illegal advantage", i.e., the misappropriation of assets or intentional misstatements in the accounts by management, employees or third parties. Fraud may involve: manipulation, falsification or alteration of records or documents; suppression or omission of the effects of transactions from records or documents; and/or recording of transactions without substance; or misapplication of accounting policies (AUS 210, para.07). The key concept is deception intended to financially benefit the deceiver in one way or another.

Acts that result in a materially misstated financial report are of particular interest to auditors. Fraud for or against a company can take the form of fraudulent financial reporting, also known as management fraud (i.e., "intentional misstatements or omissions of amounts or disclosures in financial statements") and misappropriation of assets or employee fraud, also known as defalcation (i.e., "theft of an entity's assets"). The terms "fraud" (including management and employee fraud) and "irregularity" are used interchangeably.

Auditors have responsibilities for detecting and reporting fraud. Auditing Standards and rulings by the courts provide guidance on this matter. As far as common law is concerned, a close examination of the relevant judicial pronouncements in Australia and the U.K.<sup>2</sup> shows that it has been a mixed blessing for the auditing profession (see Godsell, 1990 for a discussion). Over the years, it has clarified the auditor's responsibilities in carrying out an audit; it has cast doubt on the auditor's ability<sup>3</sup> to safeguard the investors' interests by ensuring that fraud and error are detected, and has defended the auditor who is deceived by management<sup>4</sup>. The relevant common law also demonstrates that while auditors do not have a legal duty to detect fraud *per se* they have a legal duty to audit with due care and skill<sup>5</sup> and that includes considering the possibility of fraud<sup>6</sup>, "if there is anything calculated to excite suspicion he should probe it to the bottom", and reporting suspicions about fraud to the appropriate entity<sup>8</sup>. It should be noted that "what is reasonable skill, care and caution must depend on the circumstances of each case".

<sup>&</sup>lt;sup>2</sup> Until 22 years ago, developments in the common law in Australia used to follow English precedent, Today, even though decisions by courts in England and Wales are not binding on Australian courts, they are considered relevant and are cited with approval.

3 1.1 Chales feet in Section 2.

<sup>&</sup>lt;sup>3</sup> LJ Chelsmford in Spackman v. Evans (1868), 3 L.R. 171; Coleridge, LJ in Arnold v. Armitage 1885, 1 TLR 670.

A Lopes, LJ in Re Kingston Couon Mill Ltd (No. 2) [1896]2 Ch. 279, at 290.

Lindley, LJ in Re London and General Bank (No.2) (1895), 2 Ch. 677, at 682-683; i cycs, LJ in Re. Kingston Cotton Mill Ltd (No. 2) 2 Ch. 279, at 284.

<sup>&</sup>lt;sup>6</sup> LJ Denning in Fomento (Stirling Area) Lid v. Selsdon Fountain Pen Co 1.td. [1958] 1 All E.R. 11; Moffit, J in Pacific Acceptance v. Forsyth & Others (1970) 92 W.N. (N.S.W.) 29.

<sup>&</sup>lt;sup>7</sup> Lopes, LJ in Re Kingston Cotton Mill Ltd (No. 2) [1896] 2 Ch. 289; Alverstone, LJ in Re City Equitable Fire Assurance Company [1925] Ch. 406.

Pidgeon J in W.A. Chip and Pulp Pty Ltdv. Arthur Young & Co (1987) 5 A.C.L.C. at 1004.

<sup>&</sup>lt;sup>9</sup> Lopes LJ in Re Kingston Cotton Mill at, 288.

Both locally<sup>10</sup> and internationally<sup>11</sup>, the Accounting Profession and governments have invested heavily in the issue of the cost of fraud and fraud detection by auditors. The auditing profession in Australia, U.K., U.S., together with the International Federation of Accountants, state in their auditing standards<sup>12</sup> that the responsibility for the prevention and detection of irregularities rests with management and that auditors should plan and conduct the audit so as to have a reasonable expectation of detecting fraud and other irregularities. It is explained further that while the auditor does have a legal and professional duty to exercise reasonable skill and care in planning and conducting the audit, the auditor does not have a similar responsibility to detect irregularities that do not have a material financial impact<sup>13</sup>.

The ability of the external auditor to detect material irregularities, including fraud, is coming under increasing scrutiny and auditors are under considerable pressure to accept responsibility for detecting material fraud. A number of surveys have documented that audit beneficiaries want an expanded role for auditors as society's corporate watchdog and that this view contrasts with that of auditors themselves (Humphrey Moizer and Turley, 1992, 1993; Monroe and Woodliff, 1994; Porter,

<sup>&</sup>lt;sup>10</sup> For Australia see: the two Senate Commissions investigating the auditor's duties (Royal Commission of Inquiry into the Activities of the Nugan Hand Group, 1985; McCusker Report, 1990) and one working party commissioned by the ASCPA/ICAA which reported in 1994 (But see Monroe and Woodliff, 1994, for a critique). The two accounting bodies in Australia established a Financing Reporting and Audit Expectation Gap Taskforce to report on the working party's recommendations. The report was issued in 1996.

For the U.S. see: Commission on Auditors' Responsibilities (CAR), [Cohen Commission], AICPA, 1978); National Commission on Fraudulent Financial Reporting [Treadway Commission] (AICPA, 1987); Public Oversight Board Report (1993); For Canada see the Macdonald Commission report (CICA, 1988). For the U.K. see: ICAEW (1985) and Cadbury (1992) but see, also, Humphrey et al. (1992) for a discussion.

AUS 210, AARF (1955a, para.9); Auditing Practices Board SAS 110 (APB), (1995, para.10); SAS 82, AICPA (1997, para.2); and International Federation of Accountants ISA 240, IFAC (1995, para.5).

Australian auditing standards do not define what is meant by reasonable care and skill. However, Judge Rogers in AWA v. Daniels, Va Deloitte, Haskins & Sells & Ors (1992) 10 ACLC 933 determined what is reasonable by asking auditors in a similar tier firm to the defendant to interpret or outline what they would have done under the same circumstances.

1988, 1993). The auditing profession has been trying to reconcile the public's expectation of auditors with the potential to safeguard the interest of investors with the fact that an audit cannot guarantee that if there is a material irregularity such as fraud it will necessarily be detected 100% of the time (Chandler, Edwards and Andersen, 1993). At the same time, the profession has endeavoured to minimise its legal liability and costly litigation when failing to detect fraud or error.

Accounting firms and auditors<sup>14</sup> are facing a litigation crisis with outstanding claims running into billions of dollars and as much again in settled claims<sup>15</sup>. In such litigation, what is alleged against auditors is that they have breached their duty of care to their client and/or a third party in carrying out the audit and, consequently, failed to detect fraud that had been instrumental in causing significant financial loss if not the complete collapse of a corporation. Another financial impact is the fact that professional indemnity insurance is becoming "increasingly expensive and almost unacceptably high" (Gill and Cosserat, 1996;97).

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<sup>&</sup>lt;sup>14</sup> The auditor of Rothwells, Louis Carter was personally charged and convicted with conspiracy to defined the public by "deceitfully concealing and falsely portraying Rothwells' financial position in three annual reports, plus half-yearly consolidated statements in 1988" (Sykes, 1996:1; and "Rothwells officers", 1996:5). He was sentenced to 4 years' and 3 months' imprisonment and was eligible for parole in 17 months ("Rothwells fraud pair", 1996:3). Carter lodged an appeal against the conviction, which was refused.

The level of litigation against auditors was one of the issues giving cause for concern in the United Kingdom's Auditing Practices Board discussion paper (APB, 1992).

A submission of the National Joint Limitation of Liability Task Force of the Institute of Chartered Accountants in Australia and the Australian Society of Certified Practising Accountants to the Inquiry into the Law of Joint and Several Liability, established by the Federal Attorney-General and the NSW Attorney-

According to fraud victimisation studies, it appears that the cost of fraud is very high and indeed it seems to be on the increase (Ernst and Young, 1996 and KPMG, 1996, 1995a). A company fraud victimisation survey by Deakin University (1994) sampled 1,500 medium and large corporations in Victoria. Of the 628 (42%) business entities that responded to the questionnaire, 71% reported fraud within their organisation and the cost of fraud was estimated at \$941 million. In addition to the cost incurred by the victims, the cost of fraud includes the financial costs arising out of litigation against auditors who fail to detect fraud as well as damage to the accounting profession's credibility.

The prevention and detection of fraud is expected to continue to be an important issue. Criminologists such as Grabosky and Smith (1996) have argued that Australia is in the midst of profound social, economic and technological change, and that this brings with it increasing opportunities for fraud. The same authors have also argued that new forms of fraud may be expected in many areas of industry, commerce and public administration as a result of the globalisation of financial markets and improved technology. A recent survey by the Audit Faculty of the Institute of Chartered Accountants of England and Wales (ICAEW) has found that most accountants expect fraud to increase substantially during the next five years. This is attributed to a lower standard of personal ethics, increased pressure on individuals to perform, the impact of down-sizing and increased reliance on computers and their sophistication ("Fraud Fears", 1997: 13).

A study of fraud commission and the auditor's ability to detect fraud is warranted for several reasons. First, there exists an expectation gap as far as the role of auditors in fraud detection is concerned. The courts have stated that auditors can be held negligent if they have breached their duty of care to their client by not applying "reasonable care and skill" in carrying out the audit. However, the auditing profession with its mandatory auditing standards indicates that the auditor is not responsible for detecting material irregularities and "has distanced itself from these responsibilities" (Monroe and Woodliff, 1994:49). A better understanding of how and why fraud is committed and who is likely to commit fraud should improve the fraud detection abilities of auditors, thus enabling them to better meet their legal and professional responsibilities and the expectations of financial report users.

Second, by its very nature, fraud is a complex subject and difficult to detect. Auditors are not very good at detecting fraud as they rarely encounter fraud and they are not usually experts at fraud detection<sup>17</sup>. This is partly because there is a void in the auditing literature as there appears to be no comprehensive model of the aetiology of commercial fraud and its detection by auditors. Although Cressey (1986), Loebbecke, Einning and Williams (1989) and Albrecht, Wernz and Williams (1995) have presented models of why people commit fraud, their models can be criticised for not doing so within a psychological, sociological or criminological framework, and for not

<sup>17</sup> Auditing Standard SAS 82, AICPA (1997, para. 7) acknowledge that fraud, particularly when concealed through falsified documentation, is difficult for auditors to detect since auditors are not trained nor are they "experts in such authentication". It can also be argued that if auditors rely on experience alone to become experts at identifying irregularities, then they are unlikely to become experts in due course owing to the fact that irregularities are infrequent (Ashton, 1991; Loebbecke, et al., 1989). Support for the argument that auditors are not experts at fraud detection is found in Ashton's (1991) literature review which shows convincingly that audit experience alone cannot make auditors fraud-detection experts. However, KPMG has developed a data base of error frequencies for a population of international audits (Ashton, 1991).

dealing adequately with the notion of traits that render someone to be crime-prone. In other words, the existing models make no attempt to account for individual differences as far as the aetiology of fraud is concerned by considering the individual offender's personality traits which predispose him/her to commit fraud under particular circumstances. In addition, the three models have also failed to conceptualize the opportunity to commit fraud so as to include the broader socioeconomic context in which fraud takes place and to locate it within a theoretical framework such as Clarke's (1980) situational approach to criminal behaviour. Clarke's approach stresses the importance of opportunity, both in understanding the aetiology of crime and crime prevention.

This thesis argues that because management and employee fraud is by its very nature complex and difficult to detect, auditors' fraud-detection abilities need to be enhanced to enable them to apply "reasonable care and skill" in carrying out an audit. Such enhancement can come about by utilising knowledge about the aetiology of fraud in such disciplines as psychology, sociology and criminology, and by synthesising different approaches to fraud detection. A close examination of a broad range of explanations put forward by psychologists, sociologists, and criminologists as to why people commit fraud allows the identification of a number of correlates of fraud and enables the construction of a descriptive model of the aetiology of fraud. A better understanding of why fraud occurs and the type of individual likely to commit fraud should enable auditors to be better at detecting fraud.

Finally, research into fraud is scarce. Very little is known about the types of crimes committed, the characteristics of those who commit such crimes and auditors' experiences with detecting fraud. Auditors' fraud detection abilities can also be enhanced by carrying out empirical research into fraud detection so that auditors learn through the experiences of others.

The research undertaken in this thesis is intended to encapsulate in a model available knowledge about the actiology of fraud and fraud-detection by auditors. Research has been noticeably deficient in both of these areas. At a theoretical level, the critical evaluation of available perspectives and empirical findings relevant to both the issues mentioned is used to construct a descriptive aetiological model of fraud (ROP model) and an eclectic fraud detection model. The model of fraud developed in this thesis incorporates and expands on ideas in the models presented by Cressey (1986), Loebbecke et al. (1989) and Albrecht et al. (1995) by incorporating research findings from the auditing, psychology, sociology and criminology literatures. The probability of fraud occurring is modeled as a function of the opportunity (O) to commit the crime, one or more motivated crime-prone persons (P) being in a position to commit the crime, and the use of rationalisations (R) or justifications to enable the individual(s) concerned to commit the crime by overcoming any inhibitions imposed by one's conscience or perceptions of the risks involved. Thus, the ROP model includes the notions of rationalisations, crime-prone persons and situational factors which are found in the psychology, sociology and criminology literatures. The fraud detection model developed in this thesis incorporates the ROP model into its design.

The applicability of each model was examined empirically in two separate studies. In the first study, predictions pertinent to the actiology of fraud generally, and fraud offenders' characteristics specifically, were examined in a study of 50 serious fraud cases prosecuted by the Major Fraud Group (MFG) of the Victoria Police. This study provides a partial test of the ROP model, including demographic, *modus operandi* and criminal justice characteristics of the offenders surveyed. The study furnishes a two-component profile of the major fraud offender.

The second study which involved a survey of auditors who had experience in detecting irregularities, including fraud, yielded findings about fraud detection and tested the applicability of the fraud detection model. Findings pertaining to the notion of crime-prone individuals, company fraud-victimisation proneness and fraud-detection by auditors are reported and discussed.

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Both studies as well as the two models developed are original and enable comparisons to be made between Australian and U.S. auditors as far as fraud detection is concerned. By providing knowledge that can be used in practice to improve auditors' fraud-detection ability, this thesis reduces to some extent the fraud-detection component of the expectation gap.

#### 2.0 OUTLINE OF THE THESIS

In view of the noticeable lack of knowledge by auditors as far as the actiology of fraud is concerned, the next chapter draws on a number of perspectives within psychology, sociology, and criminology in order to identify correlates of fraud. A number of different theoretical perspectives in psychology, sociology and criminology are discussed and critically evaluated. Chapter 3 examines the usefulness of auditing guidelines as far as fraud detection is concerned and a number of approaches to fraud detection are also critiqued, including the Loebbecke et al. (1989) fraud assessment model.

On the basis of the theoretical discussion in Chapters 2 and 3, two models are developed in Chapter 4, one addressing the reasons why people commit fraud and one of fraud detection by auditors. Chapter 5 reports findings from a study of 50 major fraud offenders and provides case summaries of 24 illustrative cases. Chapter 6 describes a survey of 108 Australian auditors' experience of detecting irregularities, including management and employee fraud.

The final chapter discusses both the findings obtained and the conclusions that can be drawn from them, as well as policy implications. The two models discussed in Chapter 4 are revised in the light of the empirical findings in Chapters 5 and 6. Finally, Chapter 7 considers in what sense this thesis can be said to be making an original contribution to the knowledge about the actiology of fraud and fraud detection by auditors.

CHAPTER 2

AN INTERDISCIPLINARY APPROACH TO THE AETIOLOGY OF FRAUD

CHAPTER SUMMARY

The first part of this chapter considers Gottfredson and Hirschi's (1990) general theory of crime and empirical studies of white-collar offenders. It then examines a number of well-known explanations for criminal behaviour within psychology (in terms of self-concept/self-esteem; Eysenck's theory of personality and crime; psychopathy; psychodynamic theory), sociology (differential association; control theory; theory of drift), and the situational approach in criminology. Offender personality and situational correlates of fraud are also identified.

1.0 INTRODUCTION: THE AETIOLOGY OF FRAUD

Deception offences such as fraud are examples of criminal behaviour. Therefore, accountants and auditors should look to the criminological literature for insights into the correlates of such behaviour. In the last century, psychiatrists, psychologists and sociologists have put forward general theories of criminal behaviour. In most cases, the aim has been to provide a single theory that accounts for crime in general. However, given the variety of behaviours that can be assumed under "crime", the search has been largely unsuccessful. As Walker (1987) put it, the search for a single theory of crime can be compared to searching for one theory of disease, Disappointed

<sup>1</sup> See Blackburn, 1993; Feldman, 1993; and Williams, 1991, for reviews.

with the search for a single theory, some criminologists have shifted their attention away from individual offenders and have, instead, concentrated on characteristics of situations which make it easier to commit an offence (Clarke, 1980).

This chapter discusses a number of theories of crime. To put this discussion in context, the following questions are considered:

- i. Are white-collar offenders in some significant way different from conventional offenders?
- ii. Can existing theories of criminal behaviour provide an adequate explanation for white-collar crime in general and fraud in particular?
- iii. If a specific explanation for white-collar offences like fraud is needed, should we look for causes within the individual offender, the situation in which the offence is committed or both?
- iv. Can one legitimately talk about causes or correlates regarding the question of who, how, and why fraud is committed?

Following the discussion of the various theories of crime from a criminological perspective, auditing theories of fraud detection are considered in the next chapter.

#### 2.0 EXPLANATIONS FOR WHITE-COLLAR OFFENDERS

2.1 Can general theories of criminal behaviour provide an adequate explanation for white-collar crime in general and fraud in particular?

Theories of criminal behaviour in the twentieth century have been dominated by positivism. Positivism in criminology is based on the belief that human behaviour is determined, i.e., that there are causes of human behaviour which can be explained by natural laws. Another characteristic of positivism is that one should be concerned with "facts" rather than metaphysical issues. Finally, positivistic criminologists believe that the best way to discover the natural laws governing a particular behaviour is by means of the "scientific method" as used in the natural sciences (Blackburn, 1993:18). Deterministic explanations of criminal behaviour are found in psychiatry, psychology and sociology.

Positivist theories in criminology explaining crime in deterministic terms, have focused on the offender in their search for causes of criminal behaviour<sup>2</sup>. This practice is in contrast to the Classical School's emphasis on an offender's deeds as the result of the choices of rational agents who are therefore responsible for the behaviour in question. Positivistic criminologists have been criticised by critical criminologists such as Taylor, Walton, and Young (1973) for: (1) not questioning the concept of "causes"; (2) ignoring the fact that human behaviour is rational and people interact with their environment (including the criminal justice system) in a dynamic way; (3) not questioning the medical model; and (4) for treating people as passive rather than active

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<sup>2</sup> Positivistle criminologists also emphasise the need to rehabilitate, rather than punish, the offender.

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decision makers. Positivism characterises most theories of crime in this century, including theories of white-collar crime.

In contrast, the Classical School of thought in criminology (see Beccaria, 1963) builds on the premise that offenders are agents with free will. Consequently, because criminal behaviour is conceived of as the result of rational decision making, i.e., is free willed, the Classical School focuses on the type of crime that has been committed and considers how serious it is in order to decide the degree of retribution the offender should be sentenced to. Unlike those interested in the rehabilitation of offenders, the Classical School is not interested in the individual offender and his/her personality, position in life, or needs, and thus conceives of retribution as commensurate to the severity of the crime alone.

It should be noted that theories of criminal behaviour have been mainly concerned with juvenile delinquents (rather than adult offenders) as well as with offenders known to authorities. With these limitations of general theories of criminal behaviour in mind, let us consider four well-known psychological and three sociological theories of criminal behaviour as well as the situational approach to crime.

# 2.2 Are white-collar offenders in some significant way different from conventional offenders?

Gottfredson and Hirschi (1990)<sup>3</sup> put forward a *general theory of crime* which attempts to synthesise both offender-based explanations (i.e., both psychological and sociological explanations that focus on attributes of the individual) as well as offence-based explanations within criminology (i.e., those that highlight the importance of opportunities for crimes to be committed). Drawing on Bottoms' (1993) critique of the theory, the following can be said about their general theory of crime: a number of explanatory elements are utilised to explain how crimes are possible, namely opportunity, a suitable target, a free-thinking but basically self-interested hedonistic individual lacking in self-control and making a free choice, and the absence of effective crime-prevention situational factors. Noting that committing crimes even in the case of persistent, career offenders takes up but a part of their time, the theory attempts to account for individual differences in how different people are likely to commit different offences or the same offences to a greater degree.

Gottfredson and Hirschi (1990) make use of the concept of *self-control*. According to these criminologists, low self-control is an enduring criminal predisposition which is the result of defective socialisation. For them, socialisation, whether effective or ineffective, takes shape primarily within the family and the school. They conceive of low self-control as a single, unidimensional, enduring trait which is made up of: (1) impulsivity, a preference for simple rather than complex tasks; (2) risk-seeking, a

<sup>3</sup> Their theory is an extension of Hirschi's (1969) control theory discussed in section 4.2 below.

preference for physical rather than intellectual activities; (3) being self-centred; and (4) having an explosive temper (pp.89-91). Low self-control is also said to predispose people to engage in certain other kinds of irresponsible behaviour which are not necessarily criminal offences (pp.91-94). Gottfredson and Hirschi maintain that self-control is lacking in persons whose socialisation within the family was characterised by the absence of nurturance, discipline and training. More specifically, they argue that low self-control is established when parents: (1) do not monitor closely their children's behaviour; (2) do not recognise deviant behaviour when it takes place; and (3) fail to punish such behaviour (p.97). Furthermore, it is also argued that people with low self-control are not only more likely to commit offences but are also more likely to be unsuccessful at school, as employees, and in their marriages.

For Gottfredson and Hirschi, a primary cause of criminal behaviour is the combination or interaction of low self-control and opportunity to commit a crime. By itself, however, neither factor is a major cause of crime. The general theory of crime posits that the incidence of crime in society decreases as a person's self-control increases with age. Thus, the commission of crime is explained in terms of a situation providing an opportunity for an offence to be committed and without effective "capable guardians" and the presence or not of a person with weak enough self-control (in turn, a function of his/her socialisation and age).

<sup>&</sup>lt;sup>4</sup> As termed in Cohen and Felson's (1979) routine activities/opportunity theory, a "capable guardian" in this context refers to the presence of one or more persons (e.g., police presence, neighbours looking on) or technology (e.g., security cameras) that discourages offending because it significantly increases the risk of apprehension. In the context of fraud, the existence of middle management and/or competent internal and/or external auditors who watch out for fraud constitute an example of a "capable guardian".

Finally, Gottfredson and Hirschi maintain that specialisation among offenders is a myth and that criminals are "versatile", i.e., they perpetrate "a wide variety of criminal acts, with no strong inclination to pursue a specific criminal act or a pattern of criminal acts to the exclusion of others" (p.91). However, as Bottoms (1993:70) states "the empirical world is more complex than Gottfredson and Hirschi allow for". Before discussing this and other serious criticisms levelled against the general theory of crime, let us first consider some empirical support for Gottfredson and Hirschi's basic premise that a combination of low self-control and opportunity is a (perhaps the) primary cause of crime.

Grasmick, Tittle, Bursik, and Ameklev (1993) reported a self-report study of offending that used a 24-item questionnaire measuring self-control and crime opportunity in face-to-face opportunities with a random sample of 389 adults in Oklahoma City. The questionnaire items developed by Grasmick et al. tap six components of the personality trait of self-control derived from Gottfredson and Hirschi's conceptualisation of the trait. Their results support the general theory of crime, namely that it is the combination of low self-control and crime opportunity which predicts both "fraud" (Gottfredson and Hirschi's term for property offences) and "force" (Gottfredson and Hirschi's term for violent personal crimes) that the respondents reported committing. However, contrary to what the general theory would have predicted, crime opportunity was a significant predictor of both fraud and force independent of its interaction with low self-control. Grasmick et al. also found that crime opportunity was a better predictor of whether those surveyed had committed fraud than low self-control. Grasmick et al. concluded that their findings provide promising support for certain

aspects of the general theory and that the theory has identified one mechanism that affects crime. Their data, however, "seem to weaken the theory's structural challenge" and falls short of the expectations generated by the appearance of the theory (p.24). Piquero and Rosay (1998), however, have expressed concerns about the reliability and validity of Grasmick et al.'s self-control scale.

Regarding major criticisms levelled against Gottfredson and Hirschi's general theory of crime, Bottoms (1993:72) points out that two different schools of thought within criminology, positivism and classicism, are treated as potentially complementary. In fact, classicism and positivism are inherently contradictory. Other criticisms of the theory discussed by Bottoms (see pp.68-73) revolve around: (1) the absence of empirical support for their premise that the age-distribution of crime does not vary across social and cultural conditions; (2) a failure to show convincingly that their theory covers all crime as they claim; (3) available empirical literature contradicts their assertion that crimes basically "require little foresight, planning or effort" (p.69); (4) their treatment of the relationship between gender and victimisation is inadequate; and, finally (5) they completely ignore "the socialisation and social control potential of communities" (p.71).

Grasmick et al. (1993) criticise the theory for placing too little emphasis on criminal opportunity which most likely is linked to social structure. The same authors also point out that: Gottfredson and Hirschi's definition of low self-control includes risk seeking whereas (in an apparently logically inconsistent way) their definition of criminal

<sup>5</sup> See Longshore, Stein and Turner (1998) for a response to Piquero and Rosay (1998) and a defence of

opportunity includes little risk of detection. The validity of Gottfredson and Hirschi's assumption that everybody is equally motivated to commit offences and that individual differences in offending are attributable primarily to low self-control and/or crime opportunity is questioned by Grasmick et al. Finally, Grasmick et al. criticise Gottfredson and Hirschi's failure to claborate on the situational circumstances and individual characteristics which might mute or counteract the effect of low self-control (p.25). Consequently, they conclude that the theory "needs expansion, refinement, and elaboration before it can explain crime to the degree Gottfredson and Hirschi imply" (p.26).

Benson and Moore (1992:252) argued that Gottfredson and Hirschi's theory "is inadequate in explaining white-collar crime; its rejection of motives as important causal forces is misguided". Evidence against Gottfredson and Hirschi comes from studies showing that white-collar offenders are different from common criminals in terms of a number of demographic and criminal justice characteristics (Benson and Moore, 1992; Marshall, Albrecht and Cherrington, 1980; Thomas, 1992, and Wheeler, Weisburd, Waring and Bode, 1988). It should be noted in this respect that a limitation of such studies is that they have been concerned with white-collar criminals reported to the police and processed by the courts. In view of the large volume of crimes and offenders that remain unknown to the authorities (Williams, 1991:51-60), findings reported by such studies cannot be readily generalised to white-collar criminals at large. Their findings are nevertheless useful in increasing our knowledge about white-collar offenders processed by the police, courts, and prisons. Another limitation of the

empirical studies discussed below is that the data upon which their findings are based is dated. Therefore, it is by no means clear whether one should expect, for example, today's fraud offenders to have the same demographic and criminal justice characteristics as two decades ago. The last 20 years have seen an increasingly more diverse population of people in western countries having tertiary education and entering the professions. Changes in the structure and management of corporations have affected the job mobility and career paths for many professionals in positions of financial trust, factors that affect the composition of white-collar offenders.

Marshall et al. (1980-cited by Albrecht et al., 1995;7-8) compared incarcerated white-collar criminals with prisoners serving sentences for property offences<sup>6</sup> and with a sample of non-criminal college/university students. Compared to property offenders, white-collar criminals were more likely to be reported to the police, caught, arrested, convicted and imprisoned and less likely to serve long sentences. Given that it takes a number of years for people to get into managerial positions or other positions of financial trust, it came as no surprise to find that white-collar criminals were likely to be older and better educated; they were also more religious and more likely to enjoy better psychological health, to be generally more optimistic, have higher self-esteem, be self-sufficient, motivated, and to enjoy a sense of achievement and family harmony and, finally, were more likely to express more social conformity, self-control, and empathy. However, they were less likely to have criminal records or to be characterised by alcohol and illicit drug abuse than the other property offenders. Compared to the

<sup>6</sup> The term "property offence" refers to the following: theft, burglary, robbery, and fraud (i.e., obtaining property or financial advantage belonging to another by deception with the intention of permanently depriving the other of it).

college/university student control group, white-collar criminals were found to be "more dishonest, more independent, more sexually mature, more socially deviant and more empathic. However, white-collar criminals were much more similar to students than to other property offenders" (p.8).

Further empirical evidence against Gottfredson and Hirschi's theory was reported by Wheeler et al. (1988). They used data from 1976-1978 pre-sentence reports in 1,329 white-collar crime cases (antitrust offences, securities and exchange fraud, postal and wire fraud, false claims and statements, credit and lending institution fraud, bank embezzlement, IRS fraud, and bribery) and a control sample (N=209) of non-violent crimes. They examined characteristics of white-collar crime that distinguish it from non-violent offences in a total of seven districts (see also Wheeler, Weisburd and Bode (1982)). They found that convicted white-collar crime offenders were of a higher educational standard and were more likely to have been in employment for longer periods and to be white and older in age than those convicted of common crimes. For example, the typical white-collar convicted offender in the Wheeler et al. (1988) study was a forty-year old white male, while the typical convicted common offender was a black male thirty years of age. More specifically, 45.5% of non-violent common criminals were high school graduates compared to 79.3% of white-collar criminals and 3.9% of the former but 27.1% of the latter were college/university graduates. Wheeler et al.'s findings support the common sense view that for someone to be in a position to commit major fraud, he/she must have had the necessary education and so forth to rise to a respected position over a number of years. Individuals without tertiary qualifications, with a serious drug-addiction problem, or with a criminal record, would be significantly less likely to occupy responsible positions.

In a different report that used the same sample as Wheeler et al. (1988), Weisburd, Chayet and Waring (1990), examined the criminal careers of white-collar offenders and found that they started their criminal career at a later age than common criminals. However, Weisburd et al. also found that a proportion of white-collar offenders were recidivists who did not specialise in white-collar crime. This last finding lends support to Gottfredson and Hirschi's basic premise that white-collar offenders are no different from common offenders and do not specialise in their criminal activities. Further support for Gottfredson and Hirschi was reported by Thomas' (1992) five-year followup study "of 588 persons convicted in one week in 1980" (p.125) in New Zealand which included 44 fraud offenders. Thomas (p.125) found that, "many fraud offenders re-offended: 15 (34.1%) were later re-convicted of the same offence, and 30 (68.2%) were re-convicted of fraud or any other offence". Benson and Moore (1992:255) point out that the sample of offenders used by Weisburd et al. "may not represent convicted white-collar offenders generally". The sample used by Thomas can be similarly criticised. The sample of offenders used in the Weisburd et al. study was drawn from seven judicial districts in the U.S. during the years 1976, 1977 and 1978. They examined a number of offence categories of white-collar crime and a random sample of 30 cases was selected from each offence category in each of the seven districts. As Wheeler et al. (1988:336-337) themselves point out, the list of offence categories did not include a number of important federal white-collar crimes, including bankruptcy fraud, conspiracy, and the study relied on data from convicted white-collar defendants who cannot be considered representative of such offenders generally, most of who

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would remain undetected. Consequently, the findings of Weisburd et al. cannot be extrapolated to white-collar crime offenders generally.

Benson and Moore (1992) examined the question of whether white-collar offenders are different from common offenders by analysing data on 2,462 persons sentenced in eight federal district courts between 1973 and 1978 for bank embezzlement, bribery, income tax violations, false claims and mail fraud, and 1,986 individuals sentenced for three common crimes that included drug offences, postal forgery, and bank robbery. Pre-sentence reports were the main source of data. Like Weisburd et al. (1990), Benson and Moore (1992) used an offence-based definition of white-collar crime, i.e., they designated offenders as white-collar by the offences they committed rather than their social or occupational status. Their findings contradict Gottfredson and Hirschi's view that white-collar offenders are no different from common offenders. Benson and Moore found that offenders classified as white-collar were less likely to have prior arrests, alcohol and drug abuse, and poor performance in high school than those classified as common offenders (p.265).

The studies discussed thus far have involved surveying official records on white-collar offenders. Langdale (1990) reported an Australian study that used a case study approach. Langdale was concerned with two cases only. She attended the court proceedings, read the briefs of the case and followed an unstructured interview approach with the offenders and the victims. No concrete reasons or benefits are outlined for the methodology used and it is very unclear what the research was testing. Oualitative case studies of two cases can provide some useful insight into corporate

criminal activity. Language found that the offenders did not see themselves as criminals; in fact they denied having deceived any of the victims. Such case studies, however, need to be followed up with quantitative research. It is doubtful whether the approach followed by Language provides the claimed "deeper understanding of corporate criminal activity" (p.16).

Zietz (1981) also reported using a case-study approach with 100 women inmates at the California Institution for Women serving sentences for embezzlement or fraud. She first interviewed the women and surveyed their prison records in order to examine whether the same conditions (antecedents) advocated by Cressey (1953) in A Study in the Social Psychology of Embezzlement: Other People's Money as necessary for male offenders to commit offences violating financial trust also apply to female felons. Cressey's antecedents for financial trust violators who had accepted a position of trust in good faith are: (1) conceiving of themselves as having a non-shareable financial problem; (2) being "aware that this problem can be secretly resolved by violation of the position of financial trust"; and (3) being able to apply their "own situation verbalisations which enable them to adjust their conceptions of themselves as trusted persons with conceptions of themselves as users of the entrusted funds or property" (p.30).

Cressey found that the most important of the three antecedents was whether someone was able to formulate, in advance, a rationalisation that would permit them to justify to themselves violating their position of financial trust. Regarding the nature of the unshareable financial problem, Zietz (1981:52-61) reported that the following financial

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problems, also identified by Cressey, underpinned the trust violation of the women in her study: problems resulting from personal failure, from business reversals, and problems involving pressure or persuasion by a significant person. However, Zietz also found that, unlike Cressey's male trust violators, none of the women in her study had been affected by: (1) physical isolation (though many had been adversely affected by emotional isolation); (2) problems resulting from employer-employee relations; or (3) a desire to gain status. Zietz concluded that the behaviour of the women in her study, unlike that of the male offenders described by Cressey, "seemed to have a Joan of Arc quality. They showed a willingness to be burned at the stake, if necessary, to obtain for a loved one the medical care he needed, or to buy, if possible, the love of a husband attracted to a younger woman" (p.58).

Having found that the female inmates studied did not share the same sharacteristics as those reported by Cressey (1953) for his heterogeneous group of 133 male financial trust violators (embezzlement and fraud offenders), Zietz attempted to develop a typology of female property offenders in general and embezzlement and fraud offenders in particular. She focused on the "problems" the female incarcerated felons tried to solve with their embezzlement or fraud and identified two typologies of such offenders. The first group consisted of a number of subtypes. First, there were "honest" women who breached financial trust in the context of: (1) shouldering their responsibilities as mothers and wives; (2) because they were romantic dreamers, e.g., obsessed with keeping a husband or a lover they loved too much to risk losing; (3) being greedy opportunists who defrauded in order to meet a financial need, and as a result came to enjoy a new lifestyle they got used to and, consequently, persisted in

defrauding in order to go on enjoying the same lifestyle; and (4) women who came to violate financial trust as a result of having been pressured into or been persuaded to do so by another person.

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The second group of women identified by Zietz also consisted of subtypes. There was the vindictive type who committed offences in order to benefit herself on the basis that this was justified by what she perceived to be childhood deprivations or hardships she experienced as an adult; there was the social entrepreneur who perpetrated a variety of fraud offences with or without an accomplice, who planned her crimes and justified them by pointing to similar practices by legitimate entrepreneurs in the business world or by referring to the criminal avarice of her victims. Another identified subtype was the reluctant offender who perpetrated a variety of property offences, but did not feel particularly responsible for planning them and blamed a husband or a lover as having pressured or talked her into committing the crimes concerned. Zietz reported that the two groups of women differed significantly in how they viewed themselves, in their motives, in what they valued in life and whether they engaged in a criminal lifestyle. A basic limitation of this type of research is how to ascertain the reliability of what one is told in interviews in general, especially by incarcerated felons. Inmates may well have their ideas about what are desirable answers to the questions and numerous factors influence how people attribute responsibility for their behaviour. Zietz failed to ensure adequately the reliability of her data. One way of doing so would be to interview the spouses/lovers of the women, where applicable. A final limitation of Zietz's study is that it is not clear whether the justifications offered by the inmates were the cause or the effect of their fraudulent activity. Despite its limitations, that study does provide

some insight into the thinking of women imprisoned for deception offences.

Recasting the typology of female fraud offenders developed by Zietz (1981) in terms of components of a model of why people commit fraud (see Figure 1, Chapter 4), we have: (1) motives (e.g., domestic responsibilities, greed, financial pressure, or other pressure such as emotional or even revenge on the company by a disgruntled employee seeking personal justice); and (2) justifications/rationalisations (so as not to lose a husband/lover, the company deserved it). Of course, given a person with a motive for committing fraud and being able to justify it to him/herself, an opportunity is needed for fraud to occur. What is lacking in Zietz's typology is some explanation of the reasons why, under the same circumstances, other women do not commit fraud. In other words, what personality attributes of the women rendered them crime-prone in combination with particular opportunities/conditions.

It can be seen that findings from five of the six studies discussed (the exception being Weisburd et al., 1990) contradict Gottfredson and Hirschi's general theory of crime. In other words, white-collar offenders differ from common convicted offenders in terms of a number of important demographic and criminal justice characteristics, namely being older, better educated, likely to be first offenders, to have steady employment histories and, finally, to be less likely to have an alcohol or illicit drug abuse problem.

In considering these studies, it is important to bear in mind that different findings may reflect differences in the research method used, such as the definition of white-collar crime, the types of offences examined and whether the criteria of prior criminality or recidivism was used. Furthermore, the term embezztement, as used in the U.S., may cover a broader range of offences than in Australia and New Zealand. It is also important to remember that the studies involve convicted white-collar offenders. It is unknown whether such offenders are representative of white-collar offenders in general since only a proportion of such offenders comes to the attention of the authorities and, of those, a number beat the charges against them or, if convicted, are not sent to prison. Consequently, a study that focuses on incarcerated fraud offenders, as Benson and Moore (1992); Marshall et al. (1980); Thomas (1992); Weisburd et al. (1990); Wheeler et al. (1988) and Zietz (1981) have done, can not justifiably extrapolate its findings to the general population of such offenders. The comment made (and which would apply less to research involving white-collar offenders investigated and prosecuted by the police, but not necessarily incarcerated, see Chapter 5) should not be taken to mean that such research should be dismissed; rather, that it should be treated with caution. Finally, there is still a lot we do not know about what factors motivate fraud offenders. Before considering a number of general theories of crime, it should be pointed out that:

fraud occurs in many forms. A great deal of the published literature on fraud uses the term very loosely, often as a synonym for, or in the context of discussion of, white-collar crime, i.e., crimes against business. However, not all frauds would be classified as white-collar crimes (especially if they occur outside an occupational context) and there are white-collar crimes other than fraud. Fraud can also occur in the context of corporate crimes or crimes by business (Edelhertz, 1983; Levi,1987; Geis, 1991). (Thomas, 1992:123)

On the basis of the preceding discussion it can be concluded that Gottfredson and Hirschi's general theory of crime is inadequate in explaining fraud. Therefore, auditors wishing to improve their knowledge about why fraud occurs should consider other theories of criminal behaviour which have been proposed from different perspectives.

A discussion of such theories follows but it needs to be pointed out that the theories concerned have not been tested on white-collar criminals. In the context of the present thesis, the justification of discussing these theories is that they provide useful pieces of the jigsaw puzzle of fraud actiology.

#### 3.0 PSYCHOLOGICAL THEORIES OF CRIMINAL BEHAVIOUR

Psychologists' interest in crime goes back to the end of the nineteenth century. As Thomas (1992) points out, psychologists "do not appear to have considered fraud in the context of white collar crime in much detail" (p.123). In fact, as Blackburn (1993:2) reminds us, "crime has always been a minority interest among psychologists". Psychological research into criminal behaviour has concentrated on who becomes a criminal and why. Generally, psychologists have put forward positivistic explanations of criminal behaviour. Thus, they are subject to the same criticisms mentioned earlier with reference to positivism. It should be noted that critics of psychological theories tend to lump them together. However, as shown below, this can not be justified because such theories differ significantly.

In considering the psychological theories discussed below, one should remember that there is disagreement among criminologists as to whether researchers should be focusing on offenders, offences or both. The usefulness of psychologists' concern with individual offenders is appreciated more when one remembers that "acts and tendencies ... call for different kinds of explanation" (p.22). It should be emphasised that psychologists are interested in explaining individual differences. In this way, they

supplement the sociologists' focus on social and cultural factors as determinants of criminal behaviour. After all, individuals who are brought up in the same environment do not necessarily exhibit the same behaviour.

# 3.1 Self concept/esteem/image and criminal behaviour?

Behaviouristic psychologists, who like to explain behaviour in terms of conditioning, frown upon the notion of the self as a separate "i" or "me" which people experience subjectively. Social cognitive theorists (see Bandura, 1989) conceive of the self as a structure that processes information actively. In other words, it is viewed as a *cognitive schema*. According to Blackburn (1993), the concept "refers to knowledge and beliefs about oneself including attitudes of affective regard or *self-esteem*. Since the self is generally believed to derive from and mediate social interaction, a deviant self-concept may also mediate antisocial behaviour" (Wells, 1978:197). Psychologists have constructed instruments that measure self-esteem (see Eyo's, 1981, "Tennesse Self Concept Scale"). Self-esteem is part of a person's social identity and is said to be inversely correlated with a person's degree of neuroticism (Watson and Clark, 1984). As mentioned below, neuroticism is a personality trait considered by Eysenck (1977) to be associated with criminal behaviour.

There are conflicting views about the exact nature of the relationship between self concept and criminal behaviour. One such theory is that a positive self concept insulates against deviant influences (Reckless and Dinitz, 1967). Another view is that people will commit offences if they believe that in doing so their self-image will not

<sup>7</sup> This section draws on Blackburn (1993;197-200).

suffer. When one's self-esteem is low, one is more likely to commit deviant acts such as cheating when an opportunity presents itself (Eisen, 1972). Other authors (see Howells, 1978) argue that people are motivated to maintain their self-esteem or to augment it, even if it means committing deviant acts such as crimes. Finally, researchers have reported a significant correlation between low self-esteem/negative image and non-conformity in young offenders (Richman, Brown and Clark, 1984) and between low self-esteem and cheating (Aronson and Mettee, 1968 - cited in Feldman, 1993:287-288). One explanation as to why there are such conflicting views (and no identifiable prevailing or current view) between self image/esteem and deviant behaviour/offending is that there is "a lack of an adequate theory of self concept" (Blackburn, 1993:199).

Social identity theory (Tajfel and Turner, 1986) provides an explanation for the relationship between one's self-categorisation and behaviour. This theory maintains that much of people's social behaviour is motivated by the desire to understand and evaluate one's self, and that this desire is satisfied through social categorisation and social comparison. Social categorisation refers to how people simplify a complex social world by placing themselves and others into categories such as gender or successful business-person. Thus, one's social identity is defined by the social categorisation process. According to Vivian and Brown (1995), together with the need for self-evaluation and understanding, there may be a need for "self-enhancement". In other words, people are motivated by the desire to know and evaluate themselves favourably in relation to others, to have a positive social identity and behave accordingly (see below).

Drawing on the psychology of self-concept and social identity, one could hypothesise that someone in management who regards themselves as competent and a high-achiever and is accepted as such by their colleagues enjoys high self-esteem. If such a person comes to perceive him/herself as having failed as a professional because the company is facing imminent bankruptcy his/her self-esteem will be low, he will accordingly be under pressure, and may well commit fraud to re-establish his/her self image/esteem/social identity (Kaplan, 1980).

#### 3.2 Personality and criminal behaviour

## 3.2.1 Eysenck's Theory

Maddi (1980) defines personality as a set of characteristics, tendencies and temperament that have been formed by inheritance and by social, cultural, and environmental factors. On the basis of his assessment of available empirical findings from a number of criminological studies of offenders under the age of 21<sup>8</sup>, Feldman (1993:160) states that "there seems, then, some basis for expecting personality measures to correlate with criminal behavior and to discriminate between offenders and controls". One view is that certain personality characteristics (e.g., being a neurotic extrovert, high on psychopathy, having a weak ego or inadequate superego, or being characterised by criminal thinking patterns?) facilitate the commission of antisocial acts. In other words crime-prone individuals possess certain identifiable characteristics/traits.

<sup>8</sup> Sec. for example, McCord (1979).

Caspi et al. (1994) examined the relationship between personality traits and crime in two studies. In New Zealand, they studied 18-year old males and females from an entire birth cohort. In the U.S., they studied an ethnically diverse group of 12 and 13 year old boys. In both studies they used personality tests (Multidimensional Personality Questionnaire (MPQ)) and a number of independent measures of delinquent behaviour: police records of contact, court records of convictions, self-reports, and reports from independent informants, parents and teachers (pp.166-7). Caspi et al. found that, irrespective of country, age cohort, gender and race, those high on Negative Emotionality (the tendency to experience negative emotional states<sup>10</sup>) and weak on constraint (i.e., having a strong tendency to behave impulsively) were more delinquent. Crime prognoses in terms of distinct personality traits, however, has not been examined with adult white-collar offenders.

A well-known theory of personality and crime was put forward by Eysenck (1977) and it is known as the Eysenck theory of crime and delinquency. This theory (unlike psychodynamic theories such as that of Sigmund Freud - see below) is stated in a way that makes it possible to falsify it. Eysenck's starting position is that human beings are by nature antisocial, i.e., hedonistic, egocentric and destructive. Therefore, he asks: why doesn't everybody commit certain criminal acts? In other words, what is it that stops people from committing criminal offences? His answer is that it is people's conscience, which he takes to be a conditioned reflex. According to Eysenck, an

9 See Blackburn (1993) for a discussion of the relevant literature.

<sup>10</sup> Persons high on "negative emotionality" are said by Caspi et al. (1994:169) to have a "low general threshold for the experience of negative emotions such as fear, anxiety, and anger and tend to break down under stress".

individual's personality can be measured on three dimensions: extroversion (E), neuroticism (N) and psychoticism (P). Each of these personality traits is said to have a biological basis and the three personality traits can be measured using the Eysenck Personality Inventory (EPI)<sup>11</sup>.

This section draws on Feldman's (1993) and Blackburn's (1993) discussion of Eysenck's theory. The three determinant variables are:

- i. Extroverts (E) are said to be low on cortical arousal (i.e., brain stimulation) and a high score on E points to a person who (in contrast to an introvert) is sociable, active, optimistic, outgoing and impulsive. Individuals who are high on E are said to be difficult to condition, will not have a strong conscience and, consequently, will show higher levels of criminal behaviour.
- ii. The individual who is high on neuroticism (N) has a labile autonomic nervous system (i.e., jumpy), which overreacts to painful stimuli (e.g., when being punished for behaving in a particular way) and thus interferes with conditioning. They are prone to mood fluctuations, are sensitive to criticism, are anxious, restless, and rigid. A high N score is said to be associated with higher levels of criminal activity.
- iii. As far as psychoticism (P) is concerned, people high on this characteristic tend to be loners who search for pleasure, are social misfits and do not feel remorse

<sup>11</sup> See Blackburn (1993), Feldman (1993) and Williams (1991) for detailed descriptions and appraisals of the theory.

for the trouble they cause others and, finally, are incapable of empathy. A high P score is also said to correlate with higher levels of offending.

Eysenck's theory predicts that offenders will have higher E, N and P scores. Studies which have tested this hypothesis, comparing, for example, prisoners and, non-offenders as well as studies of self-report offending, have reported conflicting findings<sup>12</sup>.

Farrington, Biron and Le Blanc (1982) reviewed 16 studies (including Allsopp and Feldman, 1974; Bartol and Holanchock, 1979; Buikhuisen and Hemmel, 1972; Eysenck and Eysenck, 1970; Farrington, 1979) which compared offenders with police records and control groups. They concluded that while in most of the studies the officially-known offenders scored higher on P and N, seven studies which used a self-report measure of offending reported a significant positive correlation with E, a smaller number of studies reported a significant positive correlation with P and, finally, there was no unequivocal relationship reported for N and offending. On the basis of their own test of Eysenck's theory in London and Montreal, Farrington et al. concluded that it lacked empirical support.

Eysenck's theory has been criticised by Blackburn (1993) on a number of grounds. The following are some of the major criticisms made by Blackburn: (1) it only considers punishment and ignores the importance of praise, positive reinforcement, in shaping one's behaviour; (2) the EPI can be faked; (3) the P dimension as described by Eysenck

<sup>12</sup> See Blackburn, 1993, for discussion of such studies.

contains a lot of ambiguities; and (4) it ignores the importance of social factors in explaining criminal behaviour.

Blackburn (1993:127) concludes his comprehensive evaluation of Eysenck's theory by stating that:

It must be concluded that Eysenck's theory of criminality is not well supported ... the crucial prediction that the ranks of criminals are swelled by extroverts has not been upheld with sufficient consistency to justify confidence in the theory.

Eysenck's theory has not been tested with white-collar criminals. On the basis of this theory one would argue that:

- i. not forgetting individual differences regarding one's E, N and P score and crime proneness, people would not feel guilty about perpetrating white-collar crimes such as fraud because they have not been conditioned through punishment to feel enough anxiety about it so as not to commit such acts; and
- white-collar crime is very widespread because most people do not disapprove
  of it.

While fraud victimisation studies support (ii)<sup>13</sup> whether white-collar offenders in general and fraud perpetrators in particular feel remorse about their offending remains

<sup>13</sup> See Cressey (1986), Dirkis and Nichol (1996).

an empirical question. Chapter 5 reports findings relevant to this issue. Eysenck's theory suggests some ways that link personality traits and criminal behaviour. Limited support for Eysenck's theory is found in the research finding that psychopaths are very similar to the extremely extroverted individuals described by Eysenck (Bartol and Bartol, 1994;323). Psychopathy is a controversial personality trait much discussed by psychologists and criminologists alike.

## 3.2.2 The psychopath and crime

Psychopath is a clinical term which has some validity as a behavioural pattern that is both identifiable and distinct. Psychopathy is often measured with the Psychopathy Checklist (Hare, 1991). According to Bartol and Bartol, psychopaths are generally of average or above-average intelligence, sociable, appear friendly, likeable, well educated with broad knowledge and interests (p.323). Additional features of the psychopath include an ability to remain calm and collected under extremely stressful conditions, they do not feel anxious, do not have a genuine sense of humour, and they appear emotionally flat (p.323). Behavioural patterns typical of psychopaths include: an inability to love and be affectionate towards others and to be extremely selfish; they are unable to learn from their mistakes and, when drunk, they "become vulgar, domineering, loud and boisterous" (p.323). Psychopaths are constantly under-aroused neuro-physiologically so they have an insatiable need for stimulation, excitement and, in this sense, they are very similar to the extremely extroverted individuals described by Eysenck. In psychoanalytic terms, a psychopath has a weak superego [see below] (Glover, 1960).

Psychopaths should not, be confused with sociopaths or people with an anti-social personality disorder (APD). As Bartol and Bartol (1994:323) point out, the terms sociopath and APD are commonly used to refer to recidivist offenders who exhibit a distinct inability to learn from experience. The psychopath, despite also sharing an apparent inability to tearn from experience, may or may not commit criminal offences.

Most people would find psychopaths difficult to live or work with because they are irresponsible, unpredictable and thus unreliable. Their behaviour follows a cyclical pattern in that for a period of time a psychopath will appear responsible and be successful at whatever he/she is doing. However, quite unexpectedly, he/she will do something which endangers his/her status irrespective of the importance of the occasion and however serious the consequences of his/her impulsive behaviour. "Because of this cyclical pattern, psychopaths rarely pursue consistent, successful criminal careers. Rather, they are more likely to participate in capers or hastily planned crimes that offer immediate satisfaction" (Bartol and Bartol, 1994:323). In the light of the attributes of the psychopath (e.g., intelligence, charm, selfishness, lack of anxiety or remorse, sensitivity to monetary gains and a weak superego), one could hypothesise a significant positive relationship between psychopathy and a tendency to commit fraud.

# 3.2.3 Psychodynamic theory and criminal behaviour

Freud's ideas have influenced thinking in various disciplines. Blackburn (1993:11) points out that while Freud himself "had little to say about crime", other psychoanalysts have shown strong interest in criminal behaviour because of their

general focus on individual pathologies which are expressed in crime. Consequently, a number of psychoanalytically-oriented authors have expressed views on causes of crime, however, there is no single psychoanalytic theory of crime (p.11).

Like Eysenck, Freud regarded people as antisocial by nature. This is because humans, whose behaviour is largely determined by how unconscious conflicts are resolved, are born with instincts (e.g., aggressive, sexual, death) that demand satisfaction. Freud advocated three personality structures and maintained that a child goes through a number of stages of psychosexual development (oral, anal, phallie), each of which is characterised by an erotogenic zone (i.e., a part of the body which can be the source of sexual pleasure). The first component of the personality structure is the *id*. This stands for our instincts. Inevitably, the *id* conflicts with demands imposed by our social natures. The need to control the demands of the *id* gives rise to the *ego* which mediates between the *id* and external reality. The *ego* can thus delay satisfying the demands of the *id* using fantasy and planning. In addition, the *ego* has at its disposal a number of defence mechanisms to help deal with conflicts experienced by an individual. The defence mechanisms include: denial, repression, regression, projection, displacement, sublimation and reaction formation.

An individual's superego represents the norms of his/her parents and social groups. The superego consists of two parts: a set of moral principles, a conscience, violation of which gives rise to guilt, and an ego-ideal, i.e., standards to which the self aspires, which provide the ego with values and goals (Blackburn, 1993:112). If the ids demands are incompatible with a person's conscience, then the ego must either

neutralise them or prevent them from reaching consciousness through the ego's defence mechanisms. For example, if the *ids* demand is for someone to be aggressive towards a person they consider morally wrong to attack, then if this wish breaks through into consciousness or is acted upon, the person will experience guilt. The *ego*, therefore, needs to neutralise the energy generated by the *ids* wish or redirect it by, for example, denying the unconscious wish or repressing it or displacing it. In channelling *id* drives, the *ego* is guided by the superego. "Superego formation depends on psychosexual and *ego* development through the child's relations with its parents, and is associated with the resolution of the Oedipal conflict around the age of five" (p.112).

Psychoanalysts explain criminal behaviour in terms of inadequate superego formation and functioning. More specifically, criminal behaviour may result from a harsh, weak or deviant superego. According to Blackburn, a person with a harsh superego may commit a crime in order to be punished (p.114), while a weak superego (i.e., a weak conscience) correlates with a person having a psychopathic personality, i.e., one which is egocentric, hedonistic, feels no guilt and cannot empathise. Finally, a deviant superego is one where a boy has a good relationship with his father, but the father is a criminal and the boy comes to adopt the father's norms and behaviour. People with a weak superego, i.e., those who have an underdeveloped conscience, are less able to channel their energies into socially approved pursuits and thus feel no guilt when committing antisocial acts (Albrecht, Romney, Cherrington, Payne and Roe, 1982:32).

Blackburn (1993) points out one major weakness of Freudian theory, namely that it does not provide a comprehensive theory of crime because it not only fails to account

for several features of offenders such as their age but, also, not all examples of criminal behaviour can be attributed to unconscious conflicts - the fact is that many crimes involve rational decision making (pp.115,116). In other words, Freudian theory overemphasises unconscious processes. Other major weaknesses of orthodox Freudian theory are: (1) it ignores the importance of influences on a person's behaviour during adolescence and later on; (2) it is not clear whether criminal behaviour is a consequence or a cause of neurotic conflicts experienced by individuals; (3) it overemphasises the importance of unconscious processes; and (4) it is not possible to ascertain the effectiveness of psychoanalysis as a method of helping a person resolve their unconscious conflicts.

## Despite such weaknesses, Blackburn (1993) concludes that:

the psychodynamic hypotheses cannot be rejected out of hand. Psychoanalysis is the only theory which attempts to deal systematically with the phenomenon of affective experience, and contrary to the somewhat overdone positivist critiques, the theory has proved to be falsifiable, and has withstood the test in several respects ... The resistance of psychologists to the notion of unconscious processes has also begun to dissipate ... and with the 'cognitive' revolution, psychology has moved closer to psychoanalysis ... (p.116)

To the best of the author's knowledge, none of the psychological theories considered above have been tested in the context of white-collar crime. Each provides a useful insight into personality attributes of crime-prone individuals and thus goes some way towards explaining why people commit crimes. Such knowledge enables us to expand on existing models of the actiology of fraud which, for example, talk about "attitudes" and "motivations" (Loebbecke et al., 1989) as a necessary prerequisite for fraud to take place, but fail to locate their explanation within a conceptual framework, treating the

individual fraud offender in a vacuum.

In summary, it can be argued that the personality of the individual offender may be a significant component of a psychological explanation as to why people commit fraud. The psychological perspectives discussed provide some useful pieces to construct the personality mosaic of fraud-prone individuals. These include:

- weak superego/low self-control;
- low self-esteem;
- not being attached to other people;
- egocentricity;
- lying;
- lack of anxiety and empathy;
- over-sensitivity to monetary gain;
- need for excitement;
- being indifferent to the consequences of one's behaviour; and
- impulsivity.

This list does not suggest that an individual must possess all the attributes for fraud to occur. Possessing some of them can be enough under the right circumstances of environmental opportunity and conditions.

#### 4.0 SOCIOLOGICAL THEORIES OF CRIMINAL BEHAVIOUR

Sociologists have been concerned with which social groups become delinquent. Most sociological theories of crime have been concerned with explaining juvenile delinquency by lower-class male offenders. Such theories can be grouped into "learning", "strain", "control", "labelling", "conflict" and "radical" theories. Sociologists researching crime have traditionally been interested in identifying causes of delinquency in social structure and cultural factors (Blackburn, 1993:87). In other words, "they have emphasised the causal processes in the social environment" (p.88). This section considers three well-known sociological theories of crime: (1) differential association; (2) control theory; and, finally, (3) theory of drift (see Blackburn, 1993; Feldman, 1993, and Williams, 1991, for reviews of sociological theories of crime).

#### 4.1 Differential association

In an attempt to explain white-collar crime (i.e., criminal offences by persons of high socioeconomic status), Edwin Sutherland (1939), put forward the theory of differential association (Sutherland and Cressey, 1970). This is a learning theory which explains criminality by asserting that crime is learned primarily by association with others. Such learning is said to take place in small groups and involves both the techniques for committing a particular crime as well as the values, attitudes, rationalisations and motives necessary for its commission. Williams, (1991:195) indicates that, "whether a person takes part in criminal activities depends on the amount of contact they have with criminal activities or with those who support or are sympathetic towards criminal activities".

The notion of differential association is useful in understanding the professional career comman who intentionally sets out to victimise a company. Such an offender would often get him/herself into a position of trust within the company (sometimes by forging qualifications and work references or would set up a company to prey on other company by exploiting the trust he/she manages to establish) or vis-à-vis the company. In their association with other criminals, such offenders can acquire skills and techniques useful in committing fraud, such as how to produce forgeries of various documents and how to otherwise deceive financial institutions. Another example of how the notion of differential association can be applied to the actiology of management fraud is by focusing attention on the importance of the corporate culture that often condones unethical and illegal means of acquiring wealth, whether for oneself or the company. Adopting such a perspective, for example, might lead a researcher to ask about the processes by which a manager becomes aware of and adopts the norm that "it is okay to use insider information to trade in shares". A final example of how the type of people one associates with can facilitate the commission of fraud is the case where someone in a position of trust in a company that is vulnerable to fraud victimisation (e.g., due to weak internal controls) is befriended by a nonemployee of the company (e.g., a real estate agent) and together they embark on a scam to defraud the company.

Williams (1991) discusses a number of criticisms of differential association theory (pp.197-198):

- It cannot account for the first time a crime is committed because if the behaviour does not exist, it cannot be learned.
- ii. It does not cater for individual differences when it comes to being influenced by one's associates. As Blackburn (1993:90) points out, differential association is "an incomplete theory, since it rests on vague psychological assumptions about human learning".
- iii. It cannot account for crimes committed by individuals who have not associated with criminals or people who hold similar attitudes. Of course, as Williams points out, behaviour may be learned through observing others, watching television, from books, etc.
- iv. "A further criticism is that this approach cannot explain irrational, impulsive, opportunist or passionate criminals, who would then be acting due to one of those factors rather than as a result of anything they have learnt" (p.197).
- v. It is impossible to measure the effect of differential association as an explanation of why an individual has committed a particular crime.
- vi. One cannot, on the basis of this theory, decide whether differential association is the cause or the effect of a person's criminal activities.
- vii. Finally, differential association, as formulated by Sutherland (1939) and Sutherland and Cressey (1970), is not 'concerned with the process of acquiring criminal attitudes and behaviors" or "with their performance and long-term maintenance" (Feldman, 1993:234).

Despite the above criticisms, according to Williams (1991:198) and Blackburn (1993:90), there is evidence for a link between differential association and criminal

behaviour. The theory appears to be more useful in explaining white-collar or corporate crime. One could hypothesise, for example, that new business executives are "inducted" into the "executive subculture" and this includes attitudes and norms which are conducive for the commission of certain white-collar offences. Furthermore, placing one's self into the category of successful company director, bank manager, solicitor, or accountant, defines one's social identity favourably relative to what others in a similar occupational position enjoy in life.

### 4.2 Control theory

Control theorists in sociological criminology (e.g., Hirschi, 1969), like their counterparts within criminological psychology, start with the assumption that people are born free to break the law and that criminal activity is natural since the uncontrolled human tendency is to look for pleasure and avoid pain. The search for an account of why people commit offences is a search for constraints and/or controls on behaviour. Hirschi (1969) argued that four elements are necessary for someone to be a law-abiding citizen:

- i. Attachment to other people. Evidence for this is to be found in one's conscience and the norms one has come to adopt, as well as whether one cares about what others think.
- To develop a commitment to conventional goals and the responsibilities that go with them.
- To be involved in conventional activities which are incompatible with lawbreaking.

 To have a belief "in the moral validity of conventional values" (Blackburn, 1993:92).

According to Hirschi (1969), these four elements are important because they are associated with the bond between a person and society. If this bond is weak an individual will exhibit criminal behaviour.

Hirschi (1969) does not provide details about how bonds develop or break down or how weak bonds produce criminal behaviour or why an individual selects one kind of criminal activity rather than another (Williams, 1991:250). Blackburn (1993:92) states that empirical studies have reported conflicting findings regarding the negative relation between bonding elements and delinquency that control theory would predict. Finally, criminologists disagree on whether control theory can account for crimes such as Watergate and oil sanction busting in Rhodesia that are committed by the powerful (Box, 1981-cited by Williams, 1991:262).

## 4.3 Theory of drift

The American sociologist Matza (1969) reintroduced the notion of free will into criminological theorising with the idea of "drift". Matza's theory maintains that individuals choose to drift in and out of criminal behaviour or, to put it differently, to drift between law-abiding and criminal behaviour. In other words, offenders are not committed to criminal behaviour. Matza, too, has been concerned with explaining juvenile delinquency. His theory, however, has applications to adult offenders (Williams, 1991:239). According to Matza, there are constraints on offending and the

state of drift is reached by means of a number of *techniques of neutralisation*. These are justifications which explain or neutralise the offenders' criminal behaviour. More specifically, they enable individuals to:

- Deny responsibility for their offending by blaming factors beyond their control (such as poverty, their family background, influence of friends and so forth) for their behaviour.
- ii. Claim that no one has been harmed by the crime(s) concerned because, for example, the victim can afford the financial loss and/or the insurance company will pay.
- iii. Claim the victim deserved the harm caused because, for example, the victim also commits offences and/or because he/or she or the company provoked the offence.
- iv. Condemn the condemners by claiming that they too commit crimes so they are in no moral position to condemn the offender and, finally,
- v. Claim greater loyalty to a particular group. This justification may be used by delinquents to refer to their loyalty to a street gang, but a white-collar criminal could use loyalty to his/her company or family in order to justify a particular crime. This does not mean, however, that either the street gang or a company actually demands that a member or an employee commit a crime. Rather, the choice is up to the individual.

Matza's techniques of neutralisation are no different from the notion of rationalisations, justifications put forward by Albrecht, et. al. (1995) or Cressey (1953, 1986) to explain

why people commit fraud. The theory explains how it is possible for someone to lead a double life, commit fraud and see themselves as respectable members of the community. There is empirical support for his view that individuals are not necessarily committed to either criminal or law-abiding behaviour (Williams, 1991:242) and the theory is not deterministic in its predictions. As Williams (1991) puts it, most delinquents "have some area of choice as to whether they will perform criminal acts when both the opportunity and the temptation arise" (p.243).

It is possible for someone to initially get into trouble financially and, as a result, drift into criminal behaviour. For example, a bank manager may decide to lend someone more money than is justified by the type of security provided, in the hope that the excess funds will soon be paid back and/or because, due to a very heavy workload and/or incompetence as a manager, he/she had no time to do the necessary paperwork that would render the loan objectionable. Subsequently, however, the loan is not repaid and the manager ends up stealing from the bank to cover up the bank loan decision. In this sense, a person may be said to "drift in" to fraud rather than to commit the crime(s) on the basis of a rational, free-willed decision.

In concluding this brief discussion of these three well-known sociological theories of crime, it can be said that theories which attempt to explain juvenile delinquency can not readily be used to account for white-collar offenders and why they offend. However, particular concepts from these theories (e.g., differential association, weak self-control, a person's rationalisations that render criminal behaviour possible) can be used to explain causes of white-collar crime.

#### 5.0 . A SITUATIONAL THEORY OF FRAUD

Unlike the psychological and sociological theories of crime, which treat compliance with the law as a consequence of internalised norms or moral prohibitions, the situational approach to criminal behaviour is concerned with crime prevention (see Clarke, 1980; Clarke and Mayhew, 1980). More specifically, it "sees crime as the outcome of immediate choices and decisions, and [...] focuses on the proximal rather than the distal influences on crimes as specific events" (Blackburn, 1993:104). Without ignoring the importance of individual differences, advocates of the situational approach do not assume environmental determinism. The situational approach to understanding why people commit crime developed out of a disillusionment with theories that assume crime is the result of some disposition of the individual (p.104).

Seen from this perspective, the career, professional fraud offender is motivated to exploit and, if need be, to create opportunities. Most frauds, like most crimes generally, are best understood as "rational action performed by fairly ordinary people acting under particular pressures and exposed to specific opportunities and situational improvements" (Hough, Clarke and Mayhew, 1980 - cited by Blackburn, 1993:104). Conceptualising fraud offenders as rational decision makers focuses on the actiology of fraud as the result of benefits outweighing the costs and could well lead one to advocate the use of deterrents to reduce fraud victimisation. Fraud reduction could be achieved by increasing one's subjective perception of risk of apprehension and severity of likely penalty upon conviction, so that the calculated costs of punishment are significantly greater than the individual's subjective benefits or profits of the fraud (See

Braithwaite, 1989).

# 6.0° THE AETIOLOGY OF FRAUD: WHAT EXPLANATION?

Historically, it appears that fraud is more prominent when there is a recession, or an avalanche of corporate collapses (Clolery 1993). KPMG's (1995b) report of Canada's 1,000 largest companies indicates the following reasons for alleged increases in fraud (multiple responses):

- i, economic pressures 88%;
- ii. weakening of society's values 70%;
- iii. more sophisticated criminals 56%;
- iv,  $_{\rm CC}$  -lack of emphasis on prevention 51%;
- v. staff downsizing 50%; and

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vi. lack of government intervention - 11%.

There may be cultural factors affecting the determinants of fraud. An international survey conducted by KPMG (1996:8) attributed the major reason for the increase in fraud to be "society's weakening values. This was the number one reason given by the regions of Hong Kong, Middle East/Asia, Europe and Australasia. Consistent with the Canadian survey, North America and Africa listed economic pressures as the major reason for the expected increase".

The preceding discussion has shown that fraud offenders are different from common offenders in terms of a number of demographic and criminal activity characteristics. Despite a number of criticisms that can be levelled against the psychological and sociological theories of crime, each theory has something to contribute to our understanding of the reasons people commit crimes. This knowledge can be supplemented through the situational approach, which highlights situational factors and conditions providing opportunities for crime.

Prior research in criminology indicates that a single theory can not account for a broad range of criminal behaviours. Given that the term "fraud" covers a list of diverse situations and individuals, and because serious fraud offenders do not appear to be versatile, the best we can do is to provide a multi-disciplinary explanation for specific types of fraud offences. Elliott and Willingham (1980) also recommend that an interdisciplinary approach be taken when studying management fraud so as to better understand how such acts are committed, by whom, and in what type of organisations.

Reference was made earlier in this chapter to Blackburn's (1993) argument that "whether behaviour is a function of a person or a situation depends on what is meant by *behaviour*" (p.21, emphasis in the original). This point is very important to the present thesis and, therefore, Blackburn's argument is quoted at length:

The claim that behaviour is a function of the situation usually refers to specific acts. However, a specific act or occurrence must be (at least) a function of the situation, because it depends on environmental opportunities and conditions: A could not have hit B without B's presence in that particular context. It is therefore tautologous to say that behaviour is "situation specific", because what identifies a specific act is the situational context in which it occurs. On the

other hand, if "behaviour" means a tendency, it is clearly a property of the purpose: it is something he or she carries around with them, which is the product of their prior history. Terms such as "sociable" and "aggressive"... describe tendencies or capacities residing in the person, which are manifest only under relevant conditions ... Acts and tendencies therefore call for different kinds of explanations. A specific act is a function of the situation and the person. The situation is necessary to provide the conditions and opportunities for action, but only the person has the power to produce that action ... traits are weak predictors of specific acts ... traits summarise average and likely behaviour, and cannot reasonably be expected to predict single acts, unless other conditions are known ... Theories of criminal behaviour vary in whether they focus on crime, as the aggregate of criminal activities, crimes, as specific criminal acts or events, or criminality as a disposition to engage in such acts (Hirschi and Gottfredson, 1988) ... to contrast "situations" and "dispositions", or proximal and distal factors, as causes of "crime" is a false dichotomy. Clearly, early family experience cannot itself explain why an adult commits a specific criminal act, Equally clearly, some people have strong criminal dispositions, which can only be explained by prior history, not the immediate situation. (pp.21-23)

The studies cited above report correlates of white-collar crime, and characteristics of both the person and situational factors. On the basis of such data, one cannot predict with accuracy who will turn out to be a major fraud offender. What is needed for such a predictive statement is detailed and reliable data on both characteristics of offenders and specific situations. If enough such information were available to generate a predictive model, then one could attempt to provide a probability explanation, i.e., how was it inevitable that such an act should have taken place? In the absence of such detailed information on recurring behaviours or because the behaviour in question is a one-off event, the best one can hope for is a possibility explanation (Walker, 1977), i.e., how was it possible for someone to commit fraud? By virtue of being narrative, such an explanation is of an historical kind. The existing empirical literature on fraud offenders only allows for possibility explanations. In other words, in attempting to provide an answer to the question "Why is fraud committed?", the available empirical

literature enables us to point to correlates of fraud that make it possible for the crime to take place. Such factors, whether operating alone or in combination, can be said to facilitate the commission of the crime. We cannot talk about direct single causes of fraud on the basis of relevant theories in criminology, psychology or sociology because no single feature of a person or a situation makes it inevitable that fraud will be committed. Rather, fraud is more likely to be the result of multiple factors operating contemporaneously.

#### 7.0 CONCLUSION

This chapter has shown that a number of criminal behaviour correlates relevant to the offender's personality and situational factors have been identified by psychologists, criminologists and sociologists. The characteristics of offenders that are likely to be related to their criminal behaviour include the following: (a) psychological (weak superego/low self-control, low self-esteem, not being attached to other people, egocentricity, lying, lack of anxiety and empathy, over-sensitivity to monetary gain, need for excitement, being indifferent to the consequences of one's behaviour; and impulsivity); and (b) sociological (one's associates, being part of a criminogenic corporate culture, possessing techniques of neutralising one's guilt, and finally being prepared to exploit opportunities). Without ignoring the fact that the theories of criminal behaviour discussed have not been tested on white-collar offenders the present thesis argues that such correlates of criminal behaviour are also to be found among fraud offenders. The personality correlates of fraud identified together with the various motives discussed in the next chapter enable us to talk about fraud-prone individuals.

The notion of fraud-proneness is used to refer mainly to a person with low self-control who is motivated to commit fraud. One's level of self-control (which renders a person crime-prone) in combination with crime opportunity appears to be worth investigating further as one mechanism that affects crime. The existence of an opportunity and pressure on someone to commit fraud are not enough to account for individual differences in who does or does not commit fraud.

Given the importance of an individual's personality and motives in any attempt to explain individual differences in why people commit fraud, as well as situational factors (e.g., opportunity), aetiological factors of fraud identified in this chapter are incorporated in the model proposed in Chapter 4 and tested in the research reported in Chapter 5.

#### CHAPTER 3

#### AUDITORS AND FRAUD DETECTION

#### CHAPTER SUMMARY

4

The first part of this chapter discusses why fraud is not detected by auditors as frequently as financial statement users would like them to. The focus is then shifted to a critical evaluation of a number of approaches to fraud detection, including Loebbecke et al.'s (1989) fraud assessment model, and the cognitive approach.

#### 1.0 WHY FRAUD IS DIFFICULT TO DETECT

Due to the nature of auditing and its inherent limitations, fraud is very difficult to detect. Interestingly, a survey of British accountants by the Audit Faculty of the ICAEW found that the two areas considered as the most difficult to detect were transactions with related parties and manipulation of computer programs ("Fraud Fears", 1997:13). One reason fraud is difficult to detect is because it may be committed by people who are familiar with accounting procedures and can cover it up. In addition, auditors do not have the:

requisite education and background to recognise its characteristics ... [and] because of the limited amount of time an auditor spends looking at the records of a business, he or she typically does not have the time or inclination to review the personal characteristics and lifestyle of possible white-collar criminals. (Wells, 1993:93-94)

Wells also mentions that there is a built-in conflict since auditors are asked to investigate upper management who indirectly are the same group that hired them. More importantly, why should they spend a lot of time detecting fraud when if they do there is the "spectre of protracted litigation, grand juries, and trials, and one immediately sees why the auditor may hope the issue of fraud never sees the light of day" (p.94).

Another reason fraud is difficult to detect is because auditors do not possess the necessary skills. In fact, the U.K.'s APB discussion paper (APB, 1992) identified the auditors' lack of skills as a key issue giving a cause for concern.

Knox, Deputy Director of the serious fraud office (1994), believes that auditors fail to detect fraud for the following reasons:

- i. the scope of audit testing and inquiries were inadequate;
- the scope of the auditors' work has been restricted by management;
- iii. the auditors have failed to understand the company's business;
- failure to identify related party transactions;
- v. reliance on uncorroborated representations from management; and
- vi. deceptions practised on auditors. (p.128)

A further difficulty is time pressure. The AICPA (1978:114-121) recognised that the time pressure auditors face leads to increased reliance on management's representations. Furthermore, due to tight reporting deadlines, senior personnel are

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spread too thin, hence having an impact on the effectiveness of the audit. To illustrate, Elliott and Willingham (1980:31) believe that "large transactions near the end of a reporting period have been a feature of a number of fraud cases". Time pressure, however, may well prevent the auditor from following up large, unusual and infrequent transactions. Such transactions need to be followed up and measures should also be considered by the auditor to ensure that tight year end deadlines will not be experienced.

Despite the above-mentioned difficulties, there are some auditors who are able to detect fraud even though it might be well hidden (Bell, Szykowney, and Willingham, 1991; Jamal, 1991; and Johnson, Grazioli, Jamal and Zualkerman, 1992).

# 2.0 APPROACHES TO ENHANCING FRAUD DETECTION BY AUDITORS

4.5

A number of models have been developed to assist auditors to obtain expertise in fraud detection, even though it is a rather infrequent experience for them (Loebbecke et al., 1989).

Different authors on the subject of fraud detection have taken different approaches and put forward a range of different suggestions aimed at enabling auditors to be more effective in detecting fraud. These can be differentiated into general approaches and specific models.

# 2.1 General approaches

There is a growing supply of published texts on how to detect and/or investigate fraud (see Albrecht et al., 1995; Bologna, Lindquist, and Wells, 1993; Huntington and Davis, 1995; and Thomhill, 1995). Similarly, some of the Big Five firms have recognised the need to survey fraud victimisation (see Ernst and Young, 1996 and KPMG, 1996; 1995a and b; 1993a and b), and offer fraud awareness training to their clients.

Arthur (1995) maintains that for external auditors to be proficient at detecting fraud, they should be able to use some of the techniques already developed by pre-emptive fraud investigators. According to Arthur, Pre-emptive Fraud Investigation "is a review intended to assess the vulnerability of an organization to fraud" (p.23). On the basis of his survey of suppliers (security firms) and users (accounting firms) of pre-emptive fraud investigation services, Arthur lists the following requirements for auditors wishing to be proficient at fraud-detection, they:

- need to develop more effective inter-personal skills;
- ii. should acquire investigative work experience;
- should use non-financial information and information external to the organisation under review;
- iv. should use subterfuge (e.g., undercover methods, and surveillance); and
- v. should adopt a more suspicious and proactive attitude towards fraud.

Finally, he recommends that more experienced and senior auditors should be used "at the coal face" to review crucial documents and to carry out basic tests to detect fraud.

One weakness of Arthur's survey is that the security firms whose opinion was sought about external auditors' fraud detection ability had a vested interest in criticising auditors to justify the pre-emptive fraud investigations services their companies provided. Also, it is highly unlikely subterfuge will ever become an acceptable external audit tool because it raises important ethical and professional issues. Finally, the use of pre-emptive fraud investigation methods will add significantly to the cost of an audit, a major obstacle to introducing such methods into the audit process.

According to the Association of Certified Fraud Examiners Manual (1994:1.601), to examine company books and records for fraud, one must know and understand the environment where the entity operates (i.e., the business, the industry, major customers, the methods of receipts, the procurement methods) and the accounting system (i.e., the system of internal controls, past, present and future, internal fraud, the audit trail).

## 2.2 Triangle approach in detecting fraud

Sorensen and Sorensen (1980:196-225) discuss a number of auditing approaches that can be used to detect management fraud, namely the Triangle Model, which comprises three parts: (1) a strong, involved, investigative board of directors; (2) a sound, comprehensive system of internal controls; and (3) alert, capable independent auditors. If any of the points in the triangle do not function properly, the entire triangle will collapse, and the opportunity for management fraud is increased.

In order to avoid the triangle collapsing and the opportunity for fraud increasing auditors need to audit the board where the board members do not take an active role in the company's operations. Auditors need to ascertain the knowledge and understanding of its individual board members, and assess the board's composition and operation (e.g., how many non-executive directors are on the board, and whether board members attend meetings). In addition, companies should form audit committees to assure the adequacy and effectiveness of accounting and other controls as well as the objectivity of the financial statements.

Sorensen and Sorensen also advocated management involvement in material transactions. A specific "review should be made [by the auditors] to determine management's direct or indirect involvement in material transactions which are included in financial statements" (Touche Ross, 1976:10). Red flags are tied to conducive economic factors (e.g., pressure to finance expansion via current earnings rather than through equity or debt) and business structures (management tendency to exert extreme pressure on executives to meet budgets), hence a procedure like a specific review of management involved in material transactions should be integrated into the appropriate sections of the basic audit program to avoid over auditing.

They also recommend using the risk-based audit approach, which requires the auditor to have an understanding of the overall economy, industry, and environment in which the client operates and a general knowledge of the operations of the client's business AUS 304 (AARF, 1995c).

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Elliott and Willingham (1980:38) recommend that the audit team's detection effectiveness can be enhanced by:

- i. Improving the "preparation of individuals entering the profession" (p.24).
- ii. Audit firms ensuring that they have "measures of individual's sensitivity to evidence of potential fraud, the measures to be used to recruit and promote auditors with greater regard for their acuity in detecting fraud" (p.25).
- iii. Varying the "audit procedures from year to year" (p.25) so that perpetrators of management fraud do not become familiar with the audit procedures.
- iv. Learning auditing procedures that should have been performed in an audit where fraud is known to have been committed. To illustrate, following the McCusker (1990) report on Rothwells, once again the significance of debtors' confirmations became apparent.
- The creation of a database of fraud cases to assist auditors in maintaining sensitivity to management fraud indicators.
- vi. Appointing members to the audit team with a sociology or a psychology background to question employees on their role in the internal controls, or interviewing outgoing employees who would least fear reprisals.

Pincus (1994) recommends an individual approach. She claims that auditing firms need to recruit and select auditors who are sensitive to red flags. It is doubtful, however, that auditing firms can assess this sensitivity of auditors. She recommends combining this

approach with Sullivan's (1993 - as cited by Pincus, 1994) frontal and side approach in order for auditors to be effective in fraud detection.

A practical suggestion about how to enhance auditors' fraud-detection capacity has been made by Davidson (1994) who argues that auditors ought to spend time in forensic accounting departments to gain knowledge about fraud detection.

There is undoubtedly a need for the effectiveness of these fraud-detection enhancement techniques/approaches to be ascertained empirically.

# 2.3 Manipulating trade-offs for the auditor

In an attempt to obtain more information on the relationship between the occurrence and detection of fraud and substantive testing versus compliance testing and audit fees, an experimental simulation was used by Matsumara and Tucker (1992) to gain some understanding about factors that impact on fraud detection by auditors. They developed a theoretical framework drawing on game-theoretic analysis and conomic experimentation. The manager moves first by committing fraud. Unaware of the manager's move, the auditor plans his/her compliance and substantive procedures. Substantive testing allows the auditor to detect fraud with a probability that increases with the level of testing (p.753). They examined the importance of four independent

<sup>1</sup> This approach uses increased "manpower and heavy artillery - such as larger samples and more detail tests" (Pineus, 1994:91). With this approach, while auditors will detect fraud, the cost of auditing will increase and, as Pineus claims, will have economic ramifications for the companies and the survival of auditing firms.

<sup>2</sup> This approach involves getting the auditors "smarter" about fraud (Pincus, 1994:92). Auditors need to know more about the nature of the client's business and the industry and auditing firms would need to invest in their auditors' training and improved decision making.

variables on the auditor's tests of transactions and balances, fraud detection and incidence of fraud, namely: (1) the auditor's penalty (financial penalty or loss of reputation); (2) auditing standard requirements; (3) the quality of the internal control structure; and (4) the audit fee. They reported the following findings using 39 students (undergraduate business and MBA) as subjects who were asked to play the role of checker (auditor) and marker (manager):

- Increasing the auditor's penalty decreased fraud occurrence, decreased tests of transactions, increased detailed tests of balances, and increased fraud detection.
- Increasing audit procedures increased audit costs, decreased discretionary testing, increased fraud detection and decreased fraud commission.
- iii. With strong internal controls, auditors increased tests of transactions and detected fraud more frequently and managers committed fraud less frequently.
- Increasing the audit fee resulted in less fraud due to increased testing being done.
- A direct relationship exists between the extent of tests and likelihood of fraud detection and, consequently, fraud prevention.

It should be noted that Matsumara and Tucker (1992) focused on irregularities in general, i.e., fraud (misrepresentation of fact) and defalcations (misappropriation of assets). Therefore, as they themselves admit, their findings cannot be generalised to management fraud (p.754). A methodological weakness of the Matsumara and Tucker (1992) experimental simulation study is its apparent low external validity because they used university students as subjects. In fact, they concealed the purpose of the study by

referring to managers as "markers" and auditors as "checkers".

# 2.4 The Red-Flags Approach

Under this approach, fraud indicators are cues ("red flags") meant to alert an auditor to the possibility of fraudulent activity, which could have a material impact on the financial statement in a given circumstance. The use of red flags is evident in textbooks on fraud detection (Albrecht et al., 1995, 1982; and Bologna and Lindquist, 1987) and in auditing standards AUS 210 (AARF, 1995a). Recognising the auditor's difficulty in detecting irregularities including fraud, AUS210 (AARF, 1995a) provides a checklist of fraud indicators that might alert the auditor to detect an irregularity.

The notion of "red flags" has been conceptualised by the accounting profession in a very narrow way. Price Waterhouse (1985:31) defined "red flags" as "potential symptoms existing within the company's business environment that would induce a higher risk of intentional misstatement of the financial statement" [own emphasis added]. Such a definition ignores attributes of an individual holding a position of trust that point to his/her being crime prone, as will be shown later in this thesis (see Chapters 5 and 6). It also ignores various external pressures which have an impact on an individual and increase the likelihood of fraud being committed.

According to Sorensen and Sorensen (1980), the red flags approach began in the mid-1970's with Touche Ross designing a set of warning signs for fraud. Following an

<sup>3</sup> Red flags are cues that may be picked up by external auditors or internal auditors which may put them on notice that someone in the company may be engaged in some form of fraudulent or improper conduct.

increase in the expectation that auditors ought to be responsible for fraud detection, some of the U.S. Big Six [then] audit firms developed the red flags approach within their practices (Pincus, 1989).

Uretsky (1980:90-91) emphasised that auditors must be alert for signals that management lacks integrity<sup>4</sup>, conditions that may provide a motive for management fraud, and to signs that fraud has occurred. Red flags are situational indicators, which indicate that the auditor should be more watchful and suspicious than usual.

According to Elliott and Willingham (1980:28) red flags do not indicate the presence of fraud. Instead, they represent conditions commonly present in events of fraud and they therefore suggest that auditors should be more concerned with fraud when such indicators are present.

Views similar to Elliott and Willingham have been expressed by Johnson, Grazioli and Jamal (1993:485), who argued that neither the use of red flags nor the development of specialised individuals have "been particularly successful" in fraud detection. Johnson et al. arrived at this conclusion on the basis that the problem of fraud detection is better solved "through reasoning rather than through recognition and experience" (p.486).

<sup>&</sup>lt;sup>4</sup> A questionnaire survey of 156 auditors from a [then] Big 6 firm by Shaub and Lawrence (1996) found that situational factors that increase professional scepticism include: the existence of a related party transaction, client financial stress, prior client inaccuracies, and prior client-auditor communication. It was also found that the professional scepticism of the auditors was counteracted when the client was important to the practice of the audit firm as a source of referrals (p.155).

KPMG's (1993b) fraud survey of the largest companies in the U.S. found that the most frequent reason why frauds remained undetected was insensitivity to red flags. More specifically, it was found that approximately half of the reported fraud "could have been detected more quickly had red flags not been ignored" (p.2).

The effectiveness of the red flags approach depends on the auditor's interpretation of the fraud cues, and its correlation with other evidence found during the audit. Therefore, communication among audit team members is imperative to enable them to compare, analyse and correlate various signals. For a small audit team this might be easy, however, for a large audit team involving up to 100 audit staff, tax consultants and information technology advisers, in various offices or even states, it will be very difficult to achieve. As Pincus (1989:155) states, studies (e.g., Sorensen, Grove and Selton, 1983; Wallace, 1983; also see Jones and Maher, 1987 - cited by Pincus, 1989) "have not yet established impressive predictive ability" of the red flags questionnaire.

Pincus (1989) investigated the usefulness of the red flags approach with an experimental study. One hundred and thirty seven auditors, with an average of 18 months' experience at a large CPA firm, were asked to evaluate the possibility of fraud during the planning stage of an audit. An actual case was used. Subjects were asked to review a set of detailed background information for an audit client and to assess the likelihood that material fraud existed. In order to assist their assessment, about half of the subjects were provided with a red flags questionnaire comprising 73 questions (while the other half were not) and were given either a case where the current year financial statements were materially misstated due to fraud or were given a no-fraud

case. Pincus found that: (1) the "subjects who used a red flags questionnaire to aid them in fraud risk assessment considered a more comprehensive and uniform set of potential fraud indicators than those subjects who did not use a questionnaire" (p.161); and (2) "there was no significant difference in the assessed fraud risk by questionnaire users and non-users for a no-fraud case, and the non-questionnaire users outperformed the questionnaire users for a fraud case" (p.160). In other words, the use of a red flags questionnaire did not impact significantly on the auditors' fraud risk assessment for the fraud case (p.160). One can argue, however, that the Pincus study did not prove the case against the usefulness of red flags for the following reasons: (1) the auditors used were relatively inexperienced; (2) as Pincus herself admits, several fraud indicators listed by non-questionnaire users were not included in the red flags questionnaire; and, finally, (3) there is the possibility that "the red flags questionnaire used in this study may have underemphasised negative indicators" (p.162).

There is general agreement among authors on the limitations of the use of red flags. According to Pincus (1989:155), the predictive ability for red flags is limited by the nature of the approach. While red flags are associated with fraud, the association is not perfect.

In addition, Pincus (1989) and Purvis (1987) pointed out that one major disadvantage of red flags is that they focus attention on specific cues and could prohibit the auditor from identifying or observing other reasons.

<sup>5</sup> According to Bonner and Pennington (1990), in order to make reasoned assessments of the likelihood of fraudulent financial reporting, auditors should have at least eight and one-half years' experience.

Regarding the advantages of red flags, Pincus (1989:155) is of the view that they: (1) are functional to the extent that they appropriately raise the auditor's sensitivity to the possibility of fraud; (2) add structure to the consideration of fraud; (3) provide consistency among auditors; and (4) could increase the possibility of detecting fraud.

In testing the predictive ability of red flags, Albrecht and Romney (1986) state that "this validation is important because most of the red flags were identified from single fraud cases rather than a statistically valid study" (p.324). As a result, they prepared "two questionnaires, each containing 87 red flags, (categorised into situational pressures, opportunity to commit fraud and personality factors). One questionnaire was written in the present tense and served as the control group instrument" (1986:324). It was sent to partners on engagements where fraud had not been found and was not suspected. The partners had to indicate whether the red flags were present. The major limitation which detracts from the survey is that the questionnaire was sent to 20 firms and data on 27 past frauds and 36 non-fraud cases were identified. The respondents were asked to rank the red flags, and as the authors themselves state, there "was an insufficient number of responses to statistically test the red flags" (p.331). It was found, however, that only one-third of the 87 red flags were significant predictors of fraud.

Fama and Jensen (1983) argued that the board of directors plays a crucial role in monitoring the actions of top managers and, furthermore, it constitutes the highest internal control mechanism that performs that task. They also argued that the presence on the board of outside directors (who are more motivated to discharge their monitoring responsibility and not to conspire with top managers to victimise

shareholders) reduces the risk of financial statement fraud. In a recent study Beasley (1996) examined the relationship between financial statement fraud (i.e., management fraud) and the composition of the board of directors. He utilised data on 75 fraud and 75 non-fraud firms matched for "size, industry, national exchange where common stocks traded, and time period". He also controlled for "differences in motivations for management to commit financial statement fraud and for conditions that enable management to override board monitoring to carry out the fraud" (p.445). It was found that the inclusion of a larger proportion of outside members on the board of directors (but not the presence of an audit committee) significantly reduces the risk of financial statement fraud.

#### 2.5 Fraud Assessment Model

6. . . .

Loebbecke and Willingham (1988) and Loebbecke et al. (1989) developed a descriptive model based on empirical work conducted in two studies. A pioneering research project, it tried to identify as much information as possible on both management fraud and employee fraud.

One basic premise of the Loebbecke et al. (1989) fraud assessment model is that material management fraud (MI) occurs when the following three components are present: (1) conditions that provide an incentive (C); (2) person(s) in position of authority and responsibility have a reason or a motivation (M) to commit a fraud; and (3) person(s) in position of authority and responsibility have an attitude or set of ethical values that allow them to commit that irregularity (A).

# P(MI)=f(C,M,A)

In developing their model, Loebbecke and Willingham (1988) considered the content of the then relevant U.S. Auditing Guideline SAS 53 (AICPA, 1988) which identified factors to consider when assessing the likelihood of management fraud being present. They proposed a reorganisation of those red flags and developed a model which tested management fraud cases reported by the Securities and Exchange Commission (SEC), as well as by Accounting and Auditing Enforcement Releases. They recognised that their model was biased towards those cases investigated by the SEC. As a result, they extended their model in an attempt to gain more information on: "how often can an auditor expect to encounter fraud? Where is it encountered and how is it likely to be detected? What are the common types of fraud? What industries seem to be more fraud-prone than others?" (p.3). They contacted the audit partners from one U.S. [then] Big Six firm and asked them to participate in a questionnaire survey. From the 277 audit partners who agreed to participate, the researchers selected 165 and administered their instrument. The survey consisted of two Parts. Part 1 obtained summary information of two types: (1) demographic data about the participant and his/her audit experience, and (2) summary information about each of the irregularities with which the participant had experience. Part II of the survey obtained detailed information about one material irregularity which was selected by the participant. The purpose of the survey was to obtain a better understanding of auditors' experience with detecting irregularities and to obtain a better understanding regarding material irregularities and the presence of red flags. They had a response rate of 73% and the respondents had an average of 19.5 years of audit experience,

Management fraud\* was found to be more prevalent in public than in private companies as well as in technology and communications, transportation and manufacturing companies, but was less frequently encountered in the educational sector. It was mainly committed by top management and occurred in revenue, inventory, related parties transactions, other assets, and accounts receivable. Regarding defalcations<sup>7</sup>, they were more likely to be committed by a variety of personnel at all levels in an organisation and tended to occur in payroll and cash receipts. Finally, like defalcations, management fraud came to light as a result of substantive tests. They also found that about 25% of instances of defalcation or management fraud occurred with new clients and with clients who had been audited for up to ten years rather than for those who had been audited for more than ten years (p.12). The authors concluded that since detecting a material irregularity is such a rare event, auditors need to maintain their vigilance and not fail to detect them due to a sense of complacency.

On the basis of their findings, they recommend the use of their assessment model on every audit as opposed to a check-list approach. Their model internalises the reasoning process. The work of Loebbecke and his associates has been important in highlighting fraud-vulnerability differences between different types of industries as well as between different financial areas within the same company. They also reported useful correlates of fraud, which can be used by auditors to help detect fraud.

<sup>6</sup> Management fraud is irregularities including fraudulent financial reporting undertaken to render financial statements misleading SAS 53 (AICPA, 1988).

Their model, however, contains a number of important limitations which detract from its usefulness. First, auditors need to make a subjective assessment on each of the three components, and if any one requirement is absent, the overall assessed likelihood is zero. Since it is a subjective assessment, there is the risk that an auditor might not be able to identify a condition(s) that would allow a material management fraud to occur. Furthermore, in practice, fraud can occur with only two elements being present (see Chapter 4).

Second, it has been maintained by Hackenbrack (1993) that how auditors assess the risk of fraudulent financial reporting using red flags is related to whether they are assigned to the audit of small or large companies. Those (like the ones in the Loebbecke and Willingham, 1988, study) who are assigned to audit large companies are more likely to focus on opportunities-for-fraud red flags. In other words, one's experience influences one's audit judgement. Consequently, since their model is based on a biased sample, it may not be useful to auditors who are routinely assigned to audit small companies.

Third, Loebbecke et al. assumed that the decision concerning whether an irregularity does or does not exist is a dichotomous one. However, this view ignores the fact that irregularities can be located at different points along a continuum and there is discretion in deciding whether there is enough evidence to constitute a material irregularity.

<sup>7</sup> Defalcations are misappropriation of assets by employees SAS 53 (AICPA, 1988).

Fourth, their model conceptualises the perpetrator as a pathological individual with deviant attitudes and ethics. Criminologists, however, question such a simplistic perspective of deviance, especially one in terms of pathology (see Taylor, Walton and Young, 1973). The view that there are two types of people, honest and dishonest, can not be sustained given the amount of evidence from studies of criminal behaviour showing that committing offences (with the exception of a few very serious violent people, and breaking all sorts of rules and regulations is a characteristic of most people.

Finally, it is not possible to generalise the findings from Locbbecke et al. (1989) to auditors at large because it was based on the responses of audit partners who frequently do not perform the bulk of the audit work and make assessments on fraud indicators but simply review and approve the work of other auditors. Furthermore, their findings were from only one firm and the training and audit experience of those audit partners would differ from those in smaller firms (see Hackenbrack, 1993).

# 2.6 Type of audit experience and differential approach to fraud detection

Recognising some of the weaknesses in Loebbecke et al. (1989), Hackenbrack (1993) conducted two studies to determine the effect of experience with different sized clients on auditor evaluations of fraudulent financial reporting indicators. In a simulation study, the author administered a one-page description of a hypothetical company to establish a baseline from which to evaluate 16 fraud-related situations. Each situation was based on a fraud-risk factor listed in the AICPA (1987) Treadway Commission's Good Practice Guidelines for Assessing the Risk of Fraudulent Financial Reporting.

Each auditor had to rate how much each independent situation would increase the company's exposure to fraudulent financial reporting. After completing the rating task, the auditors categorised each of the fraud-related situations as either an incentive or an opportunity. The 21 participants who had three years' audit experience were selected from 87 auditors who participated in a national public accounting firm's fourth year continuing education course (attendance was not based on industry specialisation). He found significant disagreement about the amount of fraud-risk associated with the fraud related situations presented. None of the fraud indicators examined was found to be significant.

In a second study Hackenbrack (1993:103), examined possible systematic differences in auditors' opinions about the relative importance of incentives versus opportunities when making fraud-risk assessments as a function of whether an auditor's experience had been with small or large clients. The hypothesis tested by Hackenbrack was that the stronger a company's control structure, the lower the control risk assessment made by the auditor, hence greater emphasis will be placed on compliance procedures. Large client auditors are more accustomed than small client auditors to situations where control risk is assessed as low, and spend "considerably more time evaluating and testing control structures...[and] are more likely to suffer a loss, in terms of expected audit efficiency, if key controls are found not to be in place and effective" (p.104). Large client auditors were therefore expected and were found by Hackenbrack to place more emphasis on opportunities than the small client auditors. Hackenbrack (p.109) goes on to say that if "opportunities do pose a greater threat in large companies than in small companies, one implication is that audit efficiency could suffer if an auditor

typically assigned to large engagements were to be assigned to a small engagement."

He believes that being an expert in large companies rather than small ones, the auditor would perceive that there exists an abundance of opportunities in the small company, and would assess the risk of fraudulent financial reporting as "high" and perhaps be unnecessarily sceptical.

In Hackenbrack's second study, three audit partners, one at each of the offices of two national accounting firms, coordinated the distribution of experimental materials to auditors with about three years' audit experience. The materials were given to equal numbers of subjects from two groups: one with experience mainly on small companies and another with experience on large companies. In order to establish a baseline from which to evaluate eight fraud-related situations, the auditors first read a one-page description of the same fictitious company used in study one. Four of the situations were incentives to commit fraudulent financial reporting and four were opportunities that rendered such fraud possible.

The subjects were asked to categorise each of the eight fraud-related situations as either an incentive or an opportunity. More specifically, the subjects carried out two tasks. Initially, they carried out a paired-comparison which required them to judge the relative fraud risk created by each incentive vis-à-vis each opportunity. For each pair of situations they indicated which situation created the greater risk of fraudulent reporting, and rated it by how much on a seven-point scale. The subjects were then given cards on which were reproduced the eight fraud-related situations. They had to sort them so as to have the situation that created the greatest fraud risk on top and the least fraud-

risk situation at the bottom of the pack. A pair of fraud-related situations was rated positive if the opportunity was placed on top of the pack and negative if the incentive was placed on top of the pack. The total of the 16 signed ratings yielded an index of the relative emphasis placed on the opportunities by an auditor. In other words, the larger the index, the greater the emphasis placed on opportunities. Another index was computed showing the relative emphasis placed on opportunities by auditors in the card-sorting task.

Analysis of the paired-comparison data showed a positive relationship between the average-size company to which the subjects were assigned to during the most recent calendar year in millions of dollars, and the relative emphasis they placed on the opportunities vis-à-vis the incentives used in the study. A similar finding was obtained with the card-sorting task. The findings were obtained taking into account the subjects' months of audit experience, industry experience, prior experience with fraudulent reporting, and firm affiliation or office affiliation. Hackenbrack concluded that "audit seniors presented with the same facts and instances had different opinions about the risk of fraudulent financial reporting. The auditors, assigned predominantly to the audit of large companies, placed more emphasis on the opportunities than the auditors assigned to the audit of small companies" (p.108). The policy implication of this finding is that: (1) "such differences of opinion may lead to differences in planning decisions about the extent of supervision, the extent and selection of audit procedures, and the degree of professional scepticism to be applied on the engagement"; and (2) the need to develop fraud risk engagement tools with high utility cannot be overemphasised (p.108).

The findings of Hackenbrack's two studies, however, need to be treated with caution because: (1) what auditors say they do or influences them may be different from what they actually do and what factors influence them in real audit work; (2) the auditors who participated had on average 37 months' experience in auditing and only 33% of them had experienced fraud detection, i.e., the respondents were relatively inexperienced in fraud detection<sup>8</sup>; and (3) Hackenbrack did not instruct his subjects to make any assumptions about materiality levels, despite the fact that they were reminded that the definition of fraudulent financial reporting is intentional material misstatement. Hackenbrack's studies point to the importance of auditors' experience with different size clients (it could be argued that partners in the then Big Six firms would have bigger size clients than smaller tier firms, which indicates a possible weakness in the Loebbecke et al. (1989) study).

# 2.7 The cognitive approach to fraud detection

Briefly stated, the cognitive approach aims to understand people's decision making by focusing on how they process and utilize information available to them and explaining differential use of the same information. In other words, this approach concerns itself with the thinking and reasoning that underlies one's decisions. As will be shown below, the cognitive approach has been used to detect fraud by utilising information about an auditor's expectations regarding the likelihood that fraud has occurred, and his/her degree of perceptual field-dependence (see below Bernardi, 1994a). From this

<sup>8</sup> See Bonner and Pennington (1990).

perspective, fraud detection by auditors is largely a function of the extent to which auditors selectively perceive, interpret and utilise information about fraud so as to justify to themselves carrying out additional tests. Another way the cognitive approach can be used to detect fraud is by enabling the auditor to think like the person who has perpetrated the fraud. The auditor is thus able to avoid being fooled by the fraud offender's deception tactics (see Jamal, Johnson and Berryman, 1995; Johnson et al. 1993).

# 2.7.1 Fraud detection: Psychological attributes of auditors

There is evidence that an auditor's perception of a client's integrity and competence are important factors in fraud detection (Anderson and Marchant, 1989; Kaplan and Reckers, 1984). Using a modified version of the case study used by Pincus (1990), Bernardi (1994a) tested the following hypotheses:

- fraud will be detected by auditors at a higher rate when they are provided with low-integrity and competence information about their client;
- fraud will be detected by auditors at a higher rate when their prior expectations regarding the existence of fraud increase;
- iii. If fraud will be detected by auditors at a higher rate when they are more field independent (i.e., are able to recognise embedded figures within larger and more complex figures, as measured by the "Group Embedded Figures Test"), of high moral development (as measured by the short form of the "Defining Issues Test") and are of internal locus of control (as measured by the "Internal-

## External Locus of Control Test")2.

The subjects in Bernardi's experimental study were randomly assigned to the experimental conditions (i) and (ii) described above, and comprised 152 managers and 342 seniors from five Big Six [then] auditing firms in the U.S. It was found that the auditors' fraud detection ability was significantly affected by perceptions of client integrity and competence only for high-moral development managers. Managers outperformed seniors but this difference was moderated by the latter's moral development, and finally, a positive relationship was found between an auditor's prior beliefs concerning the existence of fraud and fraud detection. Bernardi (1994a) concluded that "auditors should be more suspicious about the probability of fraud existing" (p.78) and that "accounting firms should develop specialized training aimed at increasing auditors' awareness of the probability of fraud" (pp.78-79).

In her discussion of the Bernardi (1994a) study, Pincus (1994) argued that the reason why no differences were found between field-dependent and field-independent<sup>10</sup> auditors may well reflect a shift towards a more field-independent population distribution for auditors. Furthermore, that shift may reflect more field-independent people being attracted to auditing as a career and/or remaining in the field and not so much the increase in computer technology in auditing. Pincus also questioned Bernardi's hypothesised relationship between an auditor's locus of control and fraud

9 See Bernardi (1994a and 1994b) for details regarding these different tests.

<sup>10</sup> A field-independent person (the opposite of a field-dependent person) is someone who is good at recognizing figures which are embedded within larger and more complex figures (Bernardi, 1994a:71). Field-independent individuals have been found to be more efficient at constructing inferences, to be better at solving problems and, finally, to detect fraud at a higher rate (p.71).

detection, on the basis that an auditor can influence outcomes and events in the external audit despite his/her locus-of-control rating as far as everyday life is concerned (p.92).

Another criticism levelled against Bernardi (1994a) by Pincus (1994) concerned the finding that auditors who failed to detect fraud were insensitive to ethical attitudes of their client's management. Pincus argued that this finding was attributable to weaknesses in the research design used by Bernardi, namely the extreme manipulation of the client integrity/competence or that some of the subjects misinterpreted the moral development scales used or, finally, that adding the competence/integrity scale experimental manipulation was unrealistic. Pincus concluded that "further research on auditors' sensitivity to management integrity is the only means to determine whether Bernardi's results are disturbingly real or spurious" (p.94).

#### 2.7.2 Using general strategies

Managers are in a position, if they wish, to word/"frame" their annual report in such a way as to conceal fraud or to otherwise mislead financial statement users (Kahucman and Tversky, 1986 - cited by Jamal, Johnson and Berryman, 1995). According to Jamal et al. (1995:86), "a framing effect occurs when alternative descriptions (frames) of a problem activate different representations in the mind of a problem-solving agent". Thus, a "framing effect" would refer, for example, to the impact of changes in management's descriptions in the annual report on the auditor's decision making. In the

<sup>11</sup> See Bernardi (1994b) for his reply to Pincus (1994).

context of an audit, a representation is a mental image of such task-relevant constructs as materiality and audit risk and their interrelationship. Kahneman and Tversky (1986) proposed that there are two ways a framing effect can be detected:

- i. Using multiple representations, i.e., considering alternative representations of the particular problem (e.g., gains vs. losses). By being in a position to know the different solutions for different representations of the same problem, the auditor can identify which particular representation is likely to be invalid; and
  ii. using a procedure that will transform all problems into a standard
- representation. An example of such a procedure is the conversion of different streams of cash flows into net present value (Jamal et al., 1995:87).

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Jamal et al. reported that financial statement fraud can be better detected by converting alternative versions of a problem into a standard representation, instead of a multiple representation. Twenty-four audit partners were asked in a simulation study to think aloud while carrying out a concurring partner review in four cases in which client management had constructed a misleading frame (description of the company) and a financial statement fraud. All the (seven) auditors who used a standard representation were successful in detecting both management's frame and the financial statement fraud in all the four cases used. Auditors using a single representation detected neither the frame nor the fraud. Four auditors who used multiple representations were only successful in detecting the company's overall company frame and not the fraud in the four cases. Jamal et al. concluded that their results suggest that a strategy that uses multiple representations may not be effective in complex task domains such as auditing

(p.102).

Finally, Jamal et al.'s findings lend support to the idea that management has the power to deceive auditors by using framing effects. Over half (13) of the audit partners who took part in their study were deceived by management despite their training, experience and motivation not to be deceived (p.102).

# 2.7.3 Using specific strategies to counter management's deception tactics

Johnson et al. (1993) developed a cognitive model using an interdisciplinary approach. Their model transforms the problem of fraud detection by auditors into an adversarial information processing problem in the context of one auditor examining the financial statements of a company, the management of which is assumed to attempt to deceive the auditor. Their model proposes that while management attempts to deceive the auditor by utilising their knowledge of the business and accounting practices as well as deep cognitive strategies and tactics for constructing a deception, auditors can use strategies and tactics for detecting such deceptions. Furthermore, they claim that fraud detection requires knowledge which is not based on direct experience of fraud detection and consider fraud to be an instance of a deception created in order to cheat on a social contract. For an auditor to detect such a deception, they must first understand the strategies for constructing a deception. A deceiver can use "dissimulative deceptions [hiding the real]" or "simulative deceptions [showing the For an auditor to detect such deceptions, they need to identify the false]". misrepresentation created by the deceiver. Johnson et al. consider this an easy task since there are constraints created by the deceiver, for example, information which is

not readily available to the auditor. Johnson et al. identified a number of "strategies and tactics that have been developed as a means of constructing a deception, and use them to specify constraints that must be processed by any agent that attempts to detect this deception" (p.469).

A basic goal of management is to create a favourable impression among financial statement users such as creditors and investors. Additional goals of management that can lead to the creation of a deception were suggested by Turner (1980:101-104 - cited by Johnson et al., 1993:472) and include the following:

- i. overstatement of earnings (e.g., in order to maximize compensation);
- obtaining financing (credit, capital) despite condition of financial distress (e.g., by fulfilling contractual obligations such as bond covenants);
- iii. evading legal tax liability;
- iv. manipulating the company's stock price;
- v. consolidating management's reputation despite unsatisfactory performance (e.g., by increasing R&D investments);
- vi. concealing the sale or assignment of fictitious or misrepresented assets:
- vii. fulfilling regulatory constraints (e.g., portfolio restrictions);
- viii. concealing illegal activities (e.g., bribes); and
- ix. embezzling.

Table 1 (reproduced from Johnson et al., 1993:472) shows seven deception tactics that can be used to cover up an overstatement of earnings.

Table 1: Examples of Deception Based on the Goal of Overstating Earnings

Strategies for Deception	Examples of Tactics for Creating Deception
Masking	Failing to record or disclose an expense or a liability.     Eliminating differences with the target representation by deleting non-complying items.
Double play	<ul> <li>Improperly applying Generally Accepted Accounting Principles, where an item is not individually material.</li> </ul>
Mimicking	Adding a misleading narrative about the company.     Spreading the extent of the fraud into small manipulations, individually not material.
Dazzling	<ul> <li>De-emphasizing issues by reporting them in the notes to the financial statements rather than reporting them in the financial statement.</li> </ul>
Inventing	Creating fictitious transactions or transactions without substance.     Creating external factors justifying attributes that deviate from the misleading representation.
Repackaging	<ul> <li>Changing the labels that characterize attributes in the financial statements.</li> <li>Reframing issues to maliciously justify attributes that deviate from the target representation.</li> </ul>
Decoying	Creating "blind alleys"; anomalies which after a close examination turn out to be inconsistent with the misleading representation.

It would be useful if auditors had some way of identifying intentional misleading assertions made by management that constitute fraud. As a starting point, it would be helpful to know the tactics management use to conceal fraud in the financial statements. Johnson, Jamal and Berryman (1991) reported three such tactics, namely:

- by describing a company as expanding rather than on the verge of collapse, for example, management deceives an auditor into having false expectations about the company; as a consequence, the auditor fails to notice inconsistencies;
- ii. by presenting information about the company in such a way (creating a "frame") as to induce the auditor to test non-irregularity hypotheses in order to evaluate inconsistencies that are created; and
- iii. breaking up an impropriety and presenting and rationalising a series of small manipulations to particular accounts in the financial statements (each one on its own immaterial) in order to minimise the likelihood of the auditor detecting the material misstatement.

According to Johnson et al. (1993), the strategies the auditor can use to detect deception fall into two categories:

- i. Strategies for finding evidence suggestive of the process used to perpetrate the deception. The auditor can first look for "situational" red flags as signs that management's personal financial situation is in distress or that a manager's compensation scheme relies on the company's income, which would motivate management to deceive the auditor. Second, the auditor can look for signs showing manipulation activity such as a manager who insists personally on approving all payments of a particular kind.
- ii. Strategies that utilise information contained in the manipulation environment.
  The auditor: (1) recognises cues that reveal a manipulation; (2) is cautious about what inferences he/she draws in order to avoid committing him/herself to

accepting management's representations early on in the audit; (3) reduces the scope for management to deceive by making the audit both exhaustive and accurate (thus preempting management's attempt to deceive); and finally (4) focuses on the goals and limited actions management can take in order to concentrate on what and how a manipulation can be effected. The last strategy is known as the "intentional-based" strategy and is "one of the most likely to be uncovered in the concurring partner review task" (Johnson et al., 1993:475).

Johnson et al. go on to outline four deception tactics (see Table 2) and the line of reasoning actually used by their model to solve the case used in their study.

Table 2: Correspondence Between Detection Tactics and Lines of Reasoning in an Auditor Model (Reproduced from Johnson et al. (1993:479))

Deception Tactics	Line of Reasoning (partial) actually used by the model to solve the Surgical Product Case.
Anti-repackaging	Inventory line of reasoning RULE 44
IF an attribute of the environment:	IF an expectation for inventory is needed
<ul> <li>is such that the Deceiver has control over it and</li> </ul>	THEN compute it as: last year value of inventory  * (1+percent of change in sales).
is inconsistent with expectations     and	RULE 45
the attribute contributes to the attainment of one of the ascribed Deceiver's goals,	IF the expectation for inventory is available, and inventory is greater than its expectation * (1+allowable variation) THEN assume that inventory is inconsistent and
THEN hypothesize that repackaging has occurred and provisionally assume the worst case interpretation of that inconsistency.	call the difference between the value of inventory and its expectation * (1+allowable variation) the inventory discrepancy.
-	RULE 84 IF inventory is inconsistent,
	THEN generate a "valuation of assets" hypothesis about manipulation of the accounting process, and assign the value of the inventory discrepancy to it.

#### Anti-double play

IF an attribute of the environment:

- is revealing of a manipulation and
- it is not sufficient to conclude that a manipulation has taken place

THEN hypothesize that a double play has occurred and provisionally do not explain it away.

# Changes in Accounting Estimate line of reasoning

#### RULE 2

IF accounting estimates changes are greater than zero,

THEN assume that the change in accounting estimate is inconsistent, and assign its full value to the homonymous discrepancy.

#### RULE 11

IF a change in accounting estimate is inconsistent, generate a "changes in policies" hypothesis about manipulation of the accounting process and assign the value of the accounting estimate change discrepancy to it.

#### Anti-mimicking

IF an attribute in the environment

- over which the Deceiver has control
- is consistent with the expectations,
- and this attribute is inconsistent with another attribute in the environment,
- and the fact that the former attribute satisfies the expectation contributes to the attainment of one of the ascribed Deceiver's goals,

THEN hypothesize that mimicking has occurred and provisionally ignore the former attribute.

#### Anti-decoying

IF an attribute in the environment a) is inconsistent with expectations and b) does not contribute to the attainment of one of the Deceiver's goals, THEN, hypothesize that decoying has

occurred and discard that attribute

# Successful Research Division line of reasoning

The model has no rule that applies to the qualitative information contained in the narrative part of the financial statements.

Functionally, this is equivalent to the prescription of the tactics, i.e., to ignore the cue.

## Litigation line of reasoning

The model has no rule that applies to the litigation cue.

Functionally, this is equivalent to the prescription of the tactics, i.e. to ignore the cue.

Johnson et al.'s (1993) model of fraud detection makes use of the "risk hierarchy" from Johnson et al. (1992). Their model is a means of solving the problem of fraud detection through reasoning rather than through experience and recognition. Its main

weakness is that it is time-consuming and imposes a high demand on human resources, as it requires that every inconsistency, however small, be evaluated as a potential fraud. Consequently, its wide adoption by auditors generally (as opposed to fraud auditors) is questionable. The model satisfies four independent basic information processing requirements, namely: (1) activation; (2) detection; (3) editing; and (4) revaluation<sup>12</sup>. Johnson et al. (1993) validated the model on four known cases and two clean cases. The model was also compared with the judgement of 24 experienced concurring partners. Their model was successful in detecting fraud in all five cases to which it was applied and it was found that the tactics used in the model to detect fraud are very similar with such tactics used by auditors who have been successful at detecting fraud. Johnson et al. (1993:485) concluded that neither the use of red flags nor the use of auditors who have specialised knowledge about particular industries to examine financial statements has been particularly successful in detecting fraud.

<sup>12</sup> Described in more detail, according to Johnson et al. (1993:476-478) the four requirements/stages are as follows: (1) in activation the auditor looks for cues in the financial statement, calculates expectations, identifies inconsistencies between cues and expectations, thus generating potential symptoms of manipulations; (2) in detection the auditor uses one or more deception-detection tactics to generate hypotheses about the manipulations of the environment, some of which concern possible goals of management; (3) editing, in the light of the manipulations hypothesized in (2) in using deception-detection tactics, the auditor edits the initial representation in (1) and for each inconsistency identified in (2) the auditor identifies a dollar value which expresses its likely impact on the operating income of the hypothesized manipulation. Finally, (4) in revaluation, the auditor makes a decision concerning the appropriate action to be taken, i.e., determines the materiality of the hypothesized manipulations and the conclusion reached is expressed in the audit opinion. The success of the method described is based on two principles: (i) coverage - this states that "success in the task of fraud detection is based on the use of the goals of a fraudulent management for interpreting detected inconsistencies", and (ii) composition - this states that "success in the task of fraud detection is based on the achievement of management goals as elements of a larger manipulation" (Johnson et al., 1993:478).

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### 3.0 CONCLUSION

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The usefulness of the various fraud detection approaches (i.e., general, triangle, manipulating trade-offs, red flags, fraud assessment, differential approach, and cognitive) described in this chapter will be enhanced if the various approaches are used to supplement one another. To illustrate, the counter-deception strategies advocated by Johnson et al. (1993, 1992) can be supplemented with knowledge derived using Loebbecke et al.'s (1989) fraud assessment model. To assist auditors, a fraud detection model is developed in the next chapter which integrates and expand on the merits of models discussed in this chapter. The next chapter describes and argues the case for (1) a descriptive model of the aetiology of fraud; and (2) an eclectic fraud detection model. Empirical findings about the usefulness to auditors of both models are reported and discussed in Chapters 5 and 6 respectively.

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#### CHAPTER 4

#### MODELS OF WHY PEOPLE COMMIT FRAUD AND FRAUD DETECTION

### CHAPTER SUMMARY

After noting that the literature in psychology, sociology, and criminology does not offer one generally-accepted explanation of why people commit fraud, the first part of this chapter identifies a number of factors which should be accounted for in a model of why fraud is committed. It then proceeds to describe and critique three models/theories that have been put forward and their components regarding the aetiology of fraud. On the basis of this evaluation and the conclusions reached in the previous chapter, a model (ROP) of why fraud is committed is developed and its three components (Rationalisations, Opportunity, and Person) are elaborated on. The model's assumptions (tested in the empirical research reported in Chapter 5) are also described. Also drawing on the discussion in the previous chapter of models of fraud detection, a new model is proposed, and its assumptions and aims are described, as are potential fraud indicators.

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#### 1.0 INTRODUCTION

The model/theory of why people commit fraud put forward in this chapter incorporates and expands on ideas from existing models. It is argued that we can identify factors which make the commission of fraud possible, but not inevitable. The factors are presented as "correlates of fraud" since a correlation indicates an association between two factors but not a causal relationship. The model depicts the three components

necessary for fraud to occur. Systematic knowledge concerning the actiology of fraud is then incorporated in a fraud-detection model to enhance auditors' fraud-detection ability.

2.0 THREE MODELS OF FRAUD: Albrecht et al. (1995); Cressey (1986); and Loebbecke et al. (1989)

As far as the concepts used by the three models are concerned, even though they all focus on workplace fraud they do not use the same terms for it. Cressey is concerned with embezzlement while Loebbecke et al. talk about management fraud and defalcations, whereas Albrecht et al. use fraud in such a way as to encompass both.

For Albrecht et al. (1995) the essential components are presented in the "fraud triangle" and consist of: (1) perceived opportunity to commit fraud; (2) financial and/or non-financial pressure; and (3) rationalisation. These are explained below:

- i. Perceived opportunity to commit fraud, convert the fraud and conceal the offence. Albrecht et al. provide the following examples of opportunities: lack or circumvention of controls that prevent and/or detect fraudulent behaviour; inability to judge quality of work; lack of disciplinary action; asymmetrical information; ignorance and apathy, and no audit trail (p.27).
- ii. Financial and/or non-financial pressure. Financial pressure includes factors such as greed, living beyond one's means, high personal debt, high medical bills, poor credit, personal financial loss, unexpected financial needs, (p.20).

Vice pressure includes factors such as gambling, drugs, alcohol and expensive sexual relationships. Work-related pressure such as to get even with one's employer or somebody else, getting little recognition for job performance, experiencing job dissatisfaction, fearing losing one's job, being bypassed for promotion and feeling underpaid, (p.24). Other pressures such as having a spouse who insists (either directly or indirectly) on an improved lifestyle or a challenge to beat the system.

iii. Rationalisation. Albrecht et al. list the following examples: the organisation owes it to me; I am only borrowing the money and will pay it back; nobody will get hurt; I deserve more; it's for a good purpose, and finally, something has to be sacrificed (p.46).

On the basis of his studies of embezzlers, Cressey (1986) identified the following three components necessary for fraud to take place:

- i. Someone with an unshareable financial problem. According to Cressey, people have problems of this nature "if it seems to them that they cannot turn to ordinary, legitimate sources for sorely needed funds" (p.199).
- ii. Someone who knows how to solve the problem in secret by violating his/her position of financial trust. Cressey points out that, "everyone in a position of financial trust has hundreds of opportunities to violate that trust. That's part and parcel of being trusted if there is no opportunity for people to steal, it is meaningless to say that they are trusted" (p.200). Furthermore, it is often the case with professionals in positions of financial trust that knowledge and

techniques concerning fraud are taught as part of professional training courses.

iii. Someone who possesses neutralising verbalisations that render committing fraud "right", cast, for example, in terms of "necessity", "just borrowing the money", "don't care" or "business is business".

Finally, Loebbecke et al. (1989:5-7) suggested that the following three components must all be present if management fraud in particular is to take place:

- i. Conditions (i.e., the "degree to which conditions are such that a material management fraud could be committed". Examples of conditions listed by Loebbecke et al. (1989:6-7) include: management operating and financial decisions are dominated by a single person; management (particularly senior accounting personnel) turnover is high; organisation is decentralised without adequate monitoring; the existence of frequent and significant difficult-to-audit transactions or balances; a weak control environment; failure to establish policies and procedures that provide reasonable assurance of reliable accounting estimates; conditions that indicate lack of control of activities (e.g., constant crisis conditions, disorganised work areas, frequent or excessive back orders, shortage or delays); a lack of control over computer processing; inadequate policies and procedures for security of data or assets; and complex calculations affecting the balance or class of transactions.
- ii. Motives (i.e., the degree to which the person(s) in "positions of authority and responsibility in the entity have a reason or motivation to commit management

I These are weaknesses in internal controls.

fraud"). Examples of motives that may result in management fraud include: management places undue emphasis on meeting carnings projections; profitability of entity relative to its industry is inadequate or inconsistent; sensitivity of operating results to economic factors (inflation, interest rates, unemployment, etc.) is high; rate of change in entity's industry is rapid; direction of change in entity's industry is declining with many business failures; solvency problems or other internal or external matters that bring into question the entity's ability to continue in existence are present; excessive emphasis on meeting quantified targets that must be achieved to receive a substantial portion of management compensation.

Attitudes (i.e., "the degree to which the person or person(s) in positions of authority and responsibility in the entity have an attitude or such set of ethical values that they would allow themselves - or even seek - to commit management fraud"). Loebbecke et al. list the following: management's attitude towards financial reporting is unduly aggressive; management places undue emphasis on meeting earnings projections; management's reputation in the business community is poor; frequent disputes about aggressive application of accounting principles that increase earnings; and evasive response to audit inquiries (pp.6-7). It should be noted at this point, however, that there is an inconsistency between Loebbecke et al.'s definition of attitudes and the examples provided. As argued below, in effect Loebbecke et al.'s attitudes can not be taken to mean rationalisations.

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All three models postulate three components as essential for an explanation of why

people commit fraud. As argued below, however, Loebbecke et al.'s examples for their attitudes component are synonymous with and should be included with their conditions component. This is why Table 1 shows two components for the Loebbecke et al. model. While the terms used by the different authors for each component are different (see Table 1), all three refer to the need to have a person with a motive who rationalises/justifies committing fraud by exploiting a perceived opportunity.

Table 1: Necessary Components for Fraud to Take Place

Albrecht	Perceived opportunity to commit fraud	Financial and/or non financial pressure	Rationalisations
Cressey	Knowhow	Unshareable Financial Problems	Possesses neutralising verbalisations
Loebbecke	Conditions/ Attitude	Motive	

Loebbecke et al.'s "conditions" is synonymous with Albrecht et al.'s "opportunity". Cressey's "the knowledge of how to solve the problem in secret, by violating a position of financial trust" (p.199) appears at first glance to be different from "conditions" and "opportunity". However, the notion of opportunity is contained in Cressey's emphasis on someone with the knowhow to commit fraud. This is because, as Cressey points out, someone can only be said to hold a position of financial trust if he/she has opportunities to violate that trust.

The way Loebbecke et al. define "attitudes" is synonymous with Albrecht et al.'s "rationalisations" and Cressey's "neutralising verbalisations". However the examples

of "attitudes" they list (see above) are a set of company characteristics which are conducive for fraud to occur. Thus, unlike Albrecht et al. and Cressey, they fail to take into account the importance of rationalisations that make fraud possible for an individual offender. This omission is perhaps explained by the fact that they only surveyed audit partners, had no data on individual offenders and did not draw on relevant psychological, sociological, and criminological literature on the actiology of fraud. Recasting Loebbecke et al.'s model in terms of the ROP model components (see below) we have only a crime-prone person with a motive (P) and opportunity (O).

Loebbecke et al. (1989) and Cressey (1986) both indicate that all three elements (as they state them) must be present if fraud is to take place. Albrecht et al. (1995) are the only authors who draw attention to their three elements as *interactive*. By interactive they mean that "... the greater the perceived opportunity or the more intense the pressure, the less rationalisation it takes to motivate someone to commit fraud. Likewise, the more dishonest a perpetrator is, the less opportunity and/or pressure it takes to motivate fraud" (p.19).

In their use of "attitudes" Albrecht et al.'s and Cressey's models utilise knowledge from such other disciplines as psychology, sociology and criminology pertaining to the type of person who is likely to be a fraud offender. However, they all can be criticised for: (1) not doing so within a psychological, sociological or criminological theoretical framework; and (2) not dealing adequately with the notion of traits that render someone to be crime-prone. In other words, no attempt is made to account for individual differences as far as the actiology of fraud is concerned by considering the

under particular circumstances. This is a serious deficiency in their models. Their explanations of why people commit fraud are incomplete and, consequently, their practical usefulness for auditors who want to enhance their fraud-detection ability is limited. In addition, all three authors have also failed to conceptualise "opportunity" so as to include the broader socio-economic context in which fraud takes place and to locate it within a theoretical framework such as Clarke's (1980) situational approach to criminal behaviour.

The model of fraud developed in this chapter incorporates and expands on ideas in the three models discussed, including the notion of rationalisations, as well as incorporating the notions of a crime-prone person and situational factors that facilitate the crime.

### 3.0 A MODEL OF WHY PEOPLE COMMIT FRAUD

The model of fraud put forward incorporates the ideas of the three models discussed earlier but expands on them by making good their common drawback of ignoring individual differences in crime-proneness. The model also: (1) incorporates the emphasis on the three fraud elements being interactive; (2) emphasises the importance of a motivated crime-prone individual; (3) stresses the importance of offenders' rationalisations/ justifications of their fraudulent activity; and (4) acknowledges that the process by which employee or management fraud comes to be committed is not necessarily a straightforward one.

The model also acknowledges that fraud offenders are not homogeneous; some have no second thoughts about embarking on a spree of fraud offences; for others, however, it can be an agonising decision and then end up being serial fraud offenders when they only intended to commit a single offence. Finally, others continue to commit other fraud offences not out of a need to cover up those already committed, but because they come to enjoy the proceeds of their first offence and believe they can go on perpetrating fraud without getting caught. For this type of individual, greed has replaced the original need for money to pay a debt. In other words, offenders become overconfident, greedy and compulsive, thus continuing offending until they get caught.

# 3.1 Assumptions of the model

The following assumptions underpin the model:

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i. Generally, fraud is made possible by the presence of three preconditions, namely, an opportunity to commit the crime (O); one or more motivated crime-prone persons (P) who is/are likely to be in a position of financial trust and who has/have the knowledge of how to commit the fraud, convert the money, and conceal the offence; and, the use of rationalisations (R)/justifications (i.e., the thinking processes) that enable the individual(s) concerned to carry out fraudulent activity by overcoming any inhibitions imposed by one's conscience or by one's perception of the risks involved (Albrecht et al., 1995; Cressey, 1986).

- ii. Each of the conditions are correlated with fraud occurrence. However, if an opportunity for fraud does not exist, this does not necessarily stop a crime-prone person with a motive and the necessary rationalisations from creating such an opportunity. To illustrate, a professional career fraudster sets out to infiltrate a company, or even establishes one in order to perpetrate his crime irrespective of the state of the national economy, the financial pressures on the company or the system of internal controls.
- Fraud offences and offenders are characterised by a significant degree of heterogeneity (Cressey, 1953) and no single explanation can account for all frauds.
- iv. Employee and management frauds are committed for a variety of motives such as having an unshareable financial problem, acting out of love for the company and the employees, financial pressure, acting out of greed, wanting personal justice, wanting a challenge and, finally, being a professional/career comman (Albrecht et al., 1995; Zietz, 1981).
  - v. The majority of potential fraud offenders have a perceived urgent need for money while a minority seeks some other non-financial reward.
- vi. Correlates of fraud exist at different levels of analysis: society, the individual company, the individual perpetrator(s) and, finally, situational factors.
- vii. There are individual differences in how a person in a management position will resolve a particular company financial problem and/or a particular personal problem that calls for the raising of money urgently (Cressey, 1986). People predisposed to dishonest behaviour are more likely to commit fraud as a solution to a financial problem they face, if they perceive an opportunity to do

42 () () so and believe they will not be found out.

viii. There are individual differences in how a person in a non-management position will choose to resolve a particular individual/family problem that calls for the raising of money. Such differences are largely explained by the crimeproneness of an individual (Albrecht et al., 1995).

The model of employee and management fraud must account for established facts about the offence and the offenders as well as the processes by which the offenders come to commit the offence. It is known, for example, that demographic, criminal justice, and personality attributes of such offenders include the following:

- getting first convicted when of a mature age (Benson and Moore, 1992);
- being a specialist offender, i.e., only committing fraud (Thomas, 1992);
- being predominantly male of high educational status (Wheeler et al., 1982);
- having weak self-control (Gottfredson and Hirschi, 1990);
- having a weak superego (Blackburn, 1993);
- because of their socialisation into some aspects of corporate culture (Sutherland, 1949) there is often an absence of constraints on their behaviour because they are not committed, are not involved and do not believe in conventional values and goals (Hirschi, 1969);
- egocentricity (Eysenck, 1977);
- feeling no anxiety or remorse (Eysenck, 1977);
- insensitivity to the consequences of their behaviour (Eysenck, 1977);
- over-sensitivity to monetary gain (Bartol and Bartol, 1994); and

 an ability to rationalise their misbehaviour, neutralise guilt and so justify it to themselves (Albrecht et al., 1995; Cressey, 1986; Matza, 1969).

Some of the apparent inter-relationships between the demographic offender attributes listed above are explained by the following: the upper echelon of the executive world is male-dominated, as are the accounting and legal professions; tertiary qualifications are almost essential for someone to acquire a senior position of trust within a company; it takes a number of years before one can lay claim to such a management position and, finally, having a prior criminal record as an adult correlates with leaving school early and not with completing a tertiary degree (Farrington, 1993).

A representation of the model is as follows:

# Pr(Fraud)=f(R,O,P)

The probability of fraud is a function of the three components. The model will now be referred to by the acronym ROP (see Figure 1). The three components of ROP are elaborated on below.

Two basic features of ROP are that it attempts to account for: (a) the interactive relationship between the different components; and (b) individual differences, i.e., not everyone who is motivated to acquire extra money and is presented with an opportunity to do so actually goes ahead and commits fraud. Another important feature of ROP is that it concedes that there is an overlap between the different components.

To illustrate, the fact that someone has the knowledge to commit the fraud and conceal the offence can be considered either as a characteristic of a motivated crime-prone person or as part of the notion of opportunity. Also, as already mentioned, "motive", "opportunity" and "rationalisations" cannot be considered independent of the individual offender's personality.

To use an analogy, a law-abiding member of the public walking along a residential street sees houses, whereas a recidivist burglar assesses opportunities for breaking into houses and identifies lucrative targets. Similarly, a weak internal control remains just that to a manager or an employee with strong moral scruples, but it is perceived as a great opportunity to steal money by deception by someone with a weak conscience and thus predisposed to break the law if he/she believes he/she can get away with it.

It should be noted that "crime-proneness" as an attribute of an individual is not used in the ROP model as a dichotomous variable but is conceptualised as being located along a continuum. The existence of any one of the ROP model's three components is not enough for fraud to occur. Many people may become aware that there is a weakness in the system of internal control of a company but only those who are crime-prone will perceive it as an opportunity to commit the offence. Furthermore, a crime-prone individual will go ahead, exploit an opportunity and commit a fraud with or without accomplices if he/she can justify the deed to him/herself. A person who does not possess the necessary rationalisations would not be in a position to justify committing the crime to him/herself. In this sense, the components of the ROP model are interactive

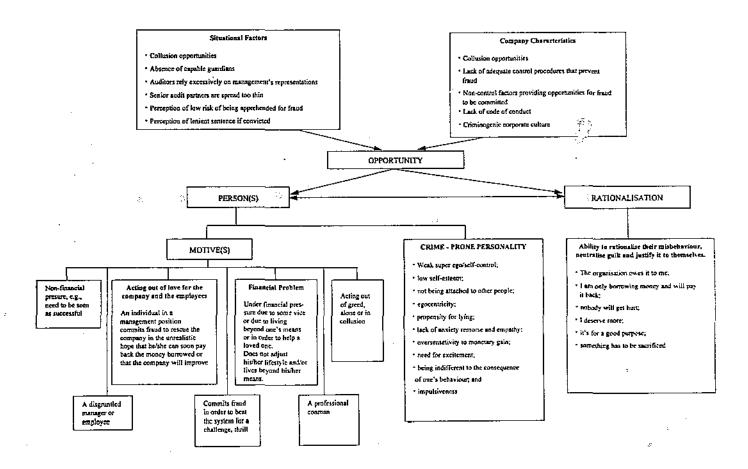


Figure 1 - Descriptive Model of Actiology of Fraud (ROP Model)
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Drawing on Blackburn's (1993:21-23) distinction between acts and tendencies, it can be stated that:

- there exist one or more acts/occurrences of fraudulent activity which depend on environmental opportunities and conditions for their occurrence;
- ii. there are individuals who, for a number of psychological, sociological, and other reasons (e.g., financial pressure) are fraud-prone, i.e., given an opportunity to commit fraud they are likely to exploit it and justify it to themselves;
- iii. only an individual, or two or more individuals conspiring together, has/have the power to commit an act of fraud;
- iv. committing fraud is a function of the situation (i.e., opportunity in terms of both company characteristics and situational factors that facilitate the commission of fraud) and the existence of a person with both the necessary predisposition and motive as well as rationalisations;
- v. personality attributes of individuals by themselves are weak predictors of specific acts of fraud, but are useful red flags for auditors insofar as they summarise average and likely behaviour; and
- vi. one could expect to predict a single act of fraud if one knew enough about an individual's personality traits that point to his/her tendencies to break the law, and if one had enough information about a given situation in terms of opportunities for fraud and relevant conditions.

Finally, the model needs to be viewed in the broader socio-economic context. The fact

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is that fraud increases during economic recessions when high interest rates exert financial pressure on both companies and individuals. In addition, the existence of multiple moralities within society and a largely utilitarian approach to ethics by the corporate culture (i.e., a state of "anything goes", of "ethical neutralism") in the competition for profit which expects a lavish lifestyle from its members, are conducive for fraud (Cressey, 1986). Consequently, a crime-prone manager/ accountant/ lawyer who cannot maintain mortgage payments on the family home because of drastic increases in interest rates may well exploit opportunities to commit fraud against clients.

### 3.2 The three components of the proposed model

## 3.2.1 Opportunity

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Fraud is facilitated by: the existence of opportunities for individuals who collude to commit the crime; a lack of emphasis on fraud-prevention controls by a company; the absence of a code of conduct (KPMG, 1995a); and the presence of inadequately trained internal and/or external auditors.

Two characteristics that affect the opportunity for fraud are organisational structure and management style. Changes in management style such as the shift from a hierarchical, authoritarian one to a more democratic one, coupled with the influence of economic rationalism and staff downsizing, have resulted in flatter organisations where middle management (which used to watch out for fraud signs) has disappeared.

Undoubtedly, a poor control system provides opportunities for someone to commit fraud. Such opportunities include, for example, sloppy paperwork, the issuing of cheques payable to cash and giving discounts to clients who pay cash. The fraud surveys by KPMG (1996, 1995a, 1995b, 1993a, 1993b) found that poor internal control was the one factor that underpinned most frauds both in Australia and in 17 other countries. Albrecht et al. (1995) provide a comprehensive discussion of fraud opportunities within companies. Drawing on Albrecht et al., it can be said that such opportunities can take the form of:

- Inadequate internal controls (improper management modelling; bad communication or labelling; ineffective hiring procedures; unclear organisational structure and assigned responsibilities, and an ineffective internal audit department).
- ii. Lack of adequate control procedures that prevent fraud (e.g., inappropriate segregation of duties or dual custody; lack of a system of authorizations, independent checks, physical safeguards, and documents and records).
- iii. Noncontrol factors that provide opportunities for fraud to be committed (e.g., inability to judge the quality of performance; failure to discipline fraud perpetrators; lack of access to information; ignorance, apathy or incapacity, and lack of an audit trail).

Cohen and Felson (1979) put forward the idea that crime can be understood in terms of people's daily routine activities. They also drew attention to the fact that criminal

offences often take place due to the absence of capable guardians (e.g., police presence or other forms of surveillance) who increase the risk of offenders being apprehended, thus preventing the commission of offences being committed. Both internal and external auditors can be thought of as capable guardians. Auditors do not fulfil the role of the capable guardian when, for example, they come to rely more on management's representations due to reporting deadlines; and/or senior audit partners are spread too thin (i.e., they are deployed ineffectively as far as overseeing the quality of audit work is concerned) due to excessive time pressure. Under such circumstances fraud becomes more likely.

A theory of why fraud is committed must also account for the fact that employee and management fraud often involves more than one offender. KPMG's (1995a) national fraud survey found that collusion was involved in one-third of the cases and comprised 8% internal collusion and 24% collusion with third parties (p.11). Similarly, KPMG's (1996) international (18 countries) fraud survey reported that collusion between employees and third parties was the second most common element that allowed fraud to occur (p.12). Collusion in fraud cases against a company is often necessary for offenders to circumvent separation of duties, an impediment made easier to overcome by weak internal controls. Therefore, collusion between someone within the company and a client of the company or some other outside party is essential for some types of fraud to take place.

Situational factors such as a perceived low risk of being detected and a perception that upon conviction the likely penal sanction will be a relatively lenient one, contribute to

fraud as they negate any notion of deterrence (Braithwate, 1989). A good reason why an offender may remain undetected is that there is a tendency for such individuals to not only hold positions of trust, but also to be hard working, not to take holidays and to be able to cover up their offences effectively (Loisel, 1996). Prosecution difficulties in convicting major fraud offenders means that such defendants are in a strong pleabargaining position. The fact remains, however, that even though many people hold positions of trust in a company and are aware of opportunities to commit fraud, not everybody does it. Let us, therefore, consider what might explain such individual differences.

## 3.2.2 Person with a motive and a crime prone personality

The challenge for a theory of fraud is to account for individual differences. The fact is that not all crime-prone individuals who perceive an opportunity to commit fraud are motivated to do it. Also, not all motivated crime-prone individuals who perceive an opportunity eventually commit fraud because they may not possess the necessary rationalisations. As Albrecht et al. (1995:49) point out, some people commit fraud due to a lot of financial pressure while others do it "even though no real pressure or opportunity for fraud exists .... Most people are somewhere in between these two extremes". Excluding professional career commen, it can be said that "When the combination of pressure, opportunity and rationalisation becomes severe enough, they cross the line of honesty and commit fraud" (p.49). It should also be noted that while for many fraud offenders the decision to commit the offence is a rational one, for a minority it is the result of a slow process whereby they half-heartedly commit the first offence as a quick-fix solution to an unshareable financial problem (Albrecht et al.,

1995; Cressey, 1986). They experience a lot of guilt; they hope they will be able to pay the money back very soon and that will be the end of their misbehaviour, but they find they have to go on committing frauds to cover up those already committed, i.e., they sink deeper and deeper into fraudulent activity as they "rob Peter to pay Paul". Such offenders may well stumble across an opportunity to commit fraud (e.g., as when someone entrusts them with a large amount of cash), or they first commit fraud to misappropriate small amounts of money but the small thefts snowball and the offending gets completely out of control.

Drawing on a large number of fraud cases described in the literature<sup>2</sup> and on the basis of lengthy discussions the author had with MFG officers<sup>3</sup> regarding fraud offences and offenders they had investigated for major fraud and the different circumstances under which fraud occurs, the following types of individuals who commit fraud(s) as well as the circumstances under which they do so can be identified:

- The offender is predominantly a highly educated male, of mature age when first convicted and is not versatile in his/her offending.
- ii. The offender has weak self-control.

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- iii. The offender rationalises his/her criminal behaviour, justifies it to him/herself and feels no guilt for the crime.
- iv. The offender is a professional, career comman, who infiltrates a company (or even establishes one, even though a bankrupt) and gets him/herself into a

<sup>&</sup>lt;sup>2</sup> See Albrecht et al., 1995; Bologna, 1993; Cressty, 1986; Zietz, 1981.

<sup>3</sup> Det/Sgt Wayne Monk, Det/Chief Inspector Robert Cockerel, and Commander Allen Bowies.

- position of trust in order to commit the crime. In other words, fraud is the goal from the moment this type of person enters a company.
- v. The offender commits a fraud because of a belief, sometimes unrealistic, that he/she can get away with it and, also that he/she will be able to return the money to its rightful owner(s).
- vi. The company faces financial problems and is in urgent need of money and someone in a management position rationally decides to commit one or more frauds to rescue the company, believing that he/she will be able to pay back the money to its rightful owner(s) and/or because of a belief that he/she can meanwhile conceal the offence(s) and not get punished. Here fraud is committed more out of love for the company than any animosity towards it or some egocentric motive.
- vii. A company's financial problems lead a particular member of management to experience socioeconomic status disequilibrium and self-concept incongruence as he/she and/or his/her family can no longer enjoy the same lifestyle:
  - but, due to strong self-control adjusts his/her expenditure accordingly and does not need to commit fraud; or
  - b. due to weak self-control does not adjust his/her expenditure accordingly, and commits fraud once or repeatedly. For some people, being seen to be successful is more important than being honest.
- viii. An individual in a position of trust persuades, or (by virtue of having weak self-control) is persuaded by, an outsider to embark on a scarn to deceive and to share the money stolen.
- ix. Fraud is committed by a crime-prone individual in response to a felt personal

need, e.g., to buy a house because one is engaged to be married or in order to help loved ones.

- x. Due to some vice pressure (e.g., gambling, drugs, alcohol, expensive sexual relationship) or for sheer excitement, an individual lives beyond his/her means. The financial pressure could also come from a spouse who insists (directly or indirectly) on a more expensive lifestyle than the individual can afford. Fraud is committed in response to such an unshareable financial problem by individuals who possess the necessary neutralising verbalisations to justify committing the offence.
- xi. According to Albrecht et al. (1995), someone in management or an employee of a company commits fraud because of some animosity towards the company in order to get even. An employee may be disgruntled because of feeling underpaid, overlooked for promotion, job dissatisfaction, fear of losing his/her job, or getting little recognition for his/her job performance.
- xii. Utilising an orthodox (i.e., Freudian) psychoanalytic perspective, the unconscious wishes of a high socioeconomic status individual, whose company is facing insolvency, may be sublimated and find expression by perpetrating a fraud which provides the needed recognition or status in the context of the corporate culture (Blackburn, 1993:114).
- xiii. A person with an antisocial personality disorder (see Blackburn, 1993; Eysenck, 1997) is excessively egocentric, feeling no anxiety or remorse, and being insensitive to the consequences of committing one or more frauds on the victims. Such a person is predisposed to commit fraud under some financial or other pressure that call for the urgent raising of money if there exists an

opportunity for fraud.

xiv. Finally, someone may commit fraud to prove they can beat the system, i.e., as a challenge (Albrecht et al., 1995).

#### 3.2.3 Rationalisations

It needs to be emphasised that, as Cressey (1986) has argued, ultimately a trusted person with an unshareable financial problem who perceives an opportunity to commit fraud does so as a result of neutralising verbalisations that make possible frauds against or for the company. In other words, in order to commit fraud it is not enough for someone to be in a position of trust, with an unshareable financial problem and an opportunity to commit fraud in secret. By violating that trust, acting alone or with one or more accomplices, they need to talk themselves into a belief that, somehow, they have a "right" to perpetrate the crime. Therefore, it is the ability to rationalise and justify committing the offence(s) that ultimately makes fraud possible. In this context, how a manager feels towards the company (an example of motivation which may reflect one or more company characteristics) is important in understanding his/her neutralisation techniques (i.e., rationalisations) which make fraud possible<sup>4</sup>.

Cressey's (1986) theory of why managers commit fraud involves a psychological process which includes among its three components "the ability to find a formula which describes the act of embezzling in words which does not conflict with the image

<sup>&</sup>lt;sup>4</sup> The president of the Institute of Chartered Accountants in Australia (ICAA) at the time of writing, Rob Wylie, has warned that economic rationalism and staff downsizing have indirectly created the ideal climate for fraud ("A Climate for Fraud", 1996:9). The possible impact of these changes and staff downsizing includes fixed-term appointments, increases in job insecurity, a decline in corporate loyalty, low morale and the adoption by staff of a mercenary attitude to one's employers. These are factors that contribute to fraudulent activity.

of oneself as a trusted person" (p.199). Cressey called this "neutralising verbalisations", and argued that "they make up the most important element in the process which gets a trusted person in trouble, or keeps the person out of trouble" (p.200). Cressey stated that "every trust violator [he himself] interviewed used a neutralizing verbalization" (p.201). More specifically, Cressey found that imprisoned embezzlers made use of the notion that their case was one of "necessity", or that their loved ones were in a dire situation or that their employers "were cheating them". However, such justifications were east in terms of "borrowing", "ownership" or "don't care" (p.201). He pointed out that rationalisations used by fraud offenders are not made up by offenders on the spur of the moment but "they are learned, and are reflections of cultural ideologies pertaining to the propriety of committing crime under certain circumstances" (p.201). In this sense, the rationalisations one uses to justify committing fraud are related to both one's socialisation and personality (which encapsulates one's values, attitudes and behavioural patterns) generally as well as to socialisation into the contemporary corporate culture.

Cressey argued that neutralising verbalisations used by both management and employees who commit fraud are accounted for by Sutherland's (1949) differential association theory. According to this theory, people rationalise their behaviour in ways they have learned from associates. Cressey also argues that the source of rationalisations used by management who commit fraud for the company (e.g., to increase its profits) is a number of ideologies which permeate the business world. He lists four such ideologies: (1) honesty is the best policy but business is business; (2) it's

<sup>5</sup> What he termed "vocabularies of motive".

all right to steal a loaf of bread when you are starving; (3) government regulation of business is socialistic and counterproductive (p.201); and (4) it's necessary (p.204).

Thus, rationalisations are made possible, on the one hand, by the existence of widely-accepted ideologies that are part of the corporate culture and the socialising effect and, on the other, the socialising effect of differential association.

Rationalisations is the third element in Albrecht et al.'s fraud triangle, the other two being perceived opportunity and pressure. On the basis that generally "there are very few, if any, people who do not rationalize" (p.46), these authors maintain that "nearly every fraud involves the element of rationalization. Most fraud perpetrators are first time offenders who would not commit other crimes. Someway, they must rationalise away the dishonesty of their acts" (p.46). Such rationalizations sometime mean lying to oneself and sometimes to others (p.47). Albrecht et al. (1995:46) provide the following list of common rationalisations used by fraud perpetrators:

- i. The organisation owes it to me.
- ii. I am only borrowing the money and will pay it back.
- iii. Nobody will get hurt.
- iv. I deserve more.
- v. It's for a good purpose.
- vi. Something has to be sacrificed my integrity or my reputation. (If I don't embezzle to cover up my inability to pay, people will know I can't meet my obligations, which will be embarrassing because I am a professional).

It needs to be emphasised at this stage that, as already argued above, that all three components of the model (opportunity, a crime-prone person with a motive, and rationalisations) are necessary for fraud to occur.

#### 4.0 A MODEL OF FRAUD-DETECTION

There has been an increasing amount of published literature on how auditors can become better at detecting material misstatements, including employee and management fraud. Fraud detection, of course, does not exist in a vacuum but needs to be considered in the broad context of audit work and against the backdrop of the knowledge of why people commit fraud. Having a definition of fraud detection helps to focus attention on the areas concerned. Albrecht et al. (1995) state that it "includes the steps or actions taken to discover that a fraud has been committed"; that "one of the most difficult tasks is determining whether or not a fraud has actually occurred", and that the "detection of fraud begins by identifying symptoms, indicators, or red flags that can be associated with fraud" (p.53). Recognising indicators of fraud is but the first step in detecting fraud, because the auditor then needs to pursue the indicators concerned until an unequivocal decision can be made as to whether fraud has in fact been perpetrated. Consequently, the availability of a checklist of red flags, however exhaustive, is not going to lead to more fraud being discovered than would otherwise be the case if the red flags are considered in isolation from other relevant information about fraud risk, and if the auditor is not inquisitive enough to pursue fraud indicators

Chapter 3 discussed different approaches that have been put forward to enable auditors to better detect fraud. While some of the approaches are very simplistic and do not warrant serious consideration, others have merits that point to the need of combining

he/she has recognised.

different approaches. For example, the practical usefulness of a comprehensive list of red flags is significantly diminished if an auditor has no knowledge of various deception strategies management can use as well as counter strategies he/she can use, to detect such deceptions. Similarly, complaints by a company's employees, clients or competitors, can provide the auditor with useful information/tip-offs that can alert him/her to the possibility that fraud may have been perpetrated.

The model developed in the next section is intended to: (1) bring together the essential components of a fraud detection strategy and guidance on the relevant tactics; (2) enhance auditors' ability to detect fraud by incorporating a component based on the ROP model; and (3) demonstrate how feedback from auditing experience in detecting fraud utilising the model can be used to train auditors in the task, as well as to set up and update fraud-detection data bases in order to keep up with the inventiveness of many fraud perpetrators.

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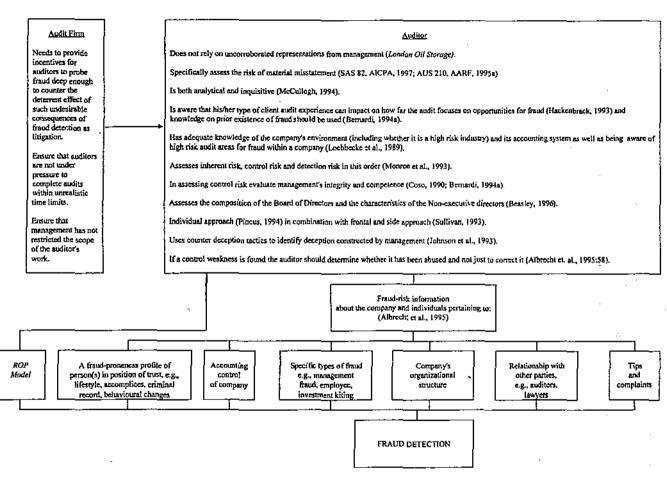


Figure 2 - Eclectic Froud Detection Model

#### 4.1 The model's content

People commit fraud, therefore, an auditor needs to be aware of existing knowledge about why people commit fraud if he/she is going to detect it. The pattern-recognition/risk-assessment decision making process that precedes fraud-detection by an auditor would be incomplete without knowledge about the reasons people commit fraud. Hence, the ROP model is an essential part of the proposed eclectic fraud detection model as shown in Figure 2.

The phrase "adequate knowledge of a company's environment where the entity operates" means the auditor has an understanding of the overall economy and industry in which the client operates, and a general knowledge of the operations of the client's business as provided in AUS 304 (AARF, 1995c). Information of this kind should be incorporated into the auditor's overall fraud-risk assessment regarding the business, industry, major customers, methods of receipts, and procurement methods. Such knowledge would, for example, draw the auditor's attention to whether it is a high risk industry or a high risk financial area within the company. The fraud surveys by KPMG (1996; 1995a; 1993a) found that high risk industries are manufacturing and finance and high risk financial areas are cash, inventory, revenue and expense cycles (see also Deakin University, 1995, and Loebbecke et al., 1989).

The accounting and internal control symptoms of employee fraud and operational ones listed by Albrecht et al. (1995:76-93) are categorised under:

- i. Irregularities in source documents. Common fraud symptoms involving source documents, such as cheques, sales invoices, purchase orders, purchase requisitions, and receiving reports include items such as missing documents, alterations on documents, duplicate payments, photocopied documents, etc.
  - symptoms: journal entries without documentary support; unexplained adjustments to receivables, payables, revenues, or expenses; journal entries that don't balance; journal entries made by individuals who would not normally make such entries; and journal entries made near the ends of accounting periods.
  - iii. Inaccuracies in ledgers. Two common fraud symptoms related to ledgers are: a ledger that doesn't balance and master (control) account balances that do not equal the sum of the individual customer or vendor balances. The first symptom is indicative of fraud in which cover-up in the accounting records is not complete. The second ledger symptom is indicative of manipulation of an individual customer or vendor's balance without altering the master receivable or payable account in the ledger.
  - iv. Unexplained changes in financial statements such as a disproportionate increase in debtors when compared to sales growth.
  - v. Internal control weaknesses such as: lack of segregation of duties; lack of physical safeguards; lack of independent checks; lack of proper authorizations; lack of proper documents and records; overriding existing controls; and an inadequate accounting system.
  - vi. Fraud symptoms involving relationships with other parties include items such

as significant litigation, a frequent change in solicitors or auditors, a high turnover of key management positions or board members, etc.

The part of the model dealing with fraud symptoms/indicators/red flags draws heavily on the work of Albrecht et al. (1995), Considering the various fraud-risk information sources from left to right, we note the importance of the auditor paying particular attention to information that someone in management, for example: has been/is under financial pressure; has a criminal record or his professional credentials are otherwise dubjous, or leads an extravagant lifestyle beyond his means. Finally, the auditor should need information that someone in management exhibits behavioural changes such as sudden mood swings; is a heavy drinker; a heavy smoker; is on drugs; is unable to relax; suffers from insomnia; is unable to look people in the eye; is defensive; and argumentative. Albrecht et al. (1995) describe the "psychological aftermath of crime" as comprising "guilt > fear > stress > behaviour changes" (p.126). It can be argued, however, that there are people who do not feel any remorse after committing a crime (Eysenck, 1977). Information about an individual's employment history and contact with the criminal justice system can be easily obtained by means of background checks. Similarly, the auditor's fraud-detection ability will be enhanced by the company's relationship with its lawyers, auditors, board members, regulators and the Taxation Department, management, banks and other lenders, related parties and other companies and, finally, with its vendors or customers (see Albrecht et al., 1995:104-105). Useful intelligence information about a company's relationship with other parties and the life of its management or employees can sometimes come from tips and complaints by the company's employees, clients or competitors.

Albrecht et al. (1995) discuss fraud symptoms indicative of the following specific types of potential fraud:

- i. Management fraud (operation performance anomalies, management characteristics that indicate possible motives, organisational structure anomalies, irregularities in relationships with outside parties)<sup>6</sup>.
- Employee fraud (accounting anomalies, internal control weaknesses, analytical anomalies, extravagant lifestyle, unusual behaviour, tips and complaints).
- iii. Investment fraud (e.g., "unreasonable promised rates of return, investments that do not make sound business sense, pressure to get in early on the investment..." (Albrecht et al., 1995:66).
- iv. Kiting (e.g., signature and maker on kited cheques are often the same, area abnormalities, i.e., many out-of-area cheques; frequent deposits, cheques, and balance inquiries, escalating account balance, bank abnormalities, average length of time money is in the account is short)?

Authors on fraud detection emphasise the importance of the auditor and other fraud examiners looking out for, recognising and pursuing further "anomalies" of one kind or another. One such basic "anomaly" is an overly complex organisational structure which, according to Albrecht et al. "seems to exist without real purpose", but is intended to "mask financial statement frauds by not allowing auditors and other

<sup>6</sup> See pp.60-64 in Albrecht et al. for further details.

<sup>7</sup> See Albrecht et al. (1995:70).

outsiders to understand that transactions were not at arm's-length and that substantial amounts of revenue and income were not legitimate" (p.95). Finally, the possible existence of fraud may be indicated by what Albrecht et al. term "analytical fraud symptoms, i.e., out-of-the-ordinary procedures and relationships that are implausible" such as increased revenues with decreased cash flows, increased inventory with decreased payables, etc.

If we take a look at the fraud detection model we also see that the auditor's endeavours to detect fraud are more likely to prove fruitful if: he/she has the support of his firm; the auditor possesses certain attributes and adopts a suitable approach to the task; addresses inherent risk before control risk which, in turn, should precede detection-risk assessment (Monroe, Ng, and Woodliff, 1993); and he/she is able to synthesise fraudrisk information from a variety of sources that point to "anomalies". If one or more of these ingredients are not present, fraud detection is likely to prove an elimic goal for the auditor. While the proposed model addresses the broad range of information-inputs into effective fraud detection, it does not claim to guarantee that, using it, an auditor will detect carefully-concealed frauds. It needs to be pointed out in this context that while, on the one hand, recognising even one fraud indicator can lead an auditor to discover fraud, on the other, recognising a number of red flags and pursuing them extensively may prove a false alarm.

For the proposed fraud detection model to be applied successfully, the auditor is required to process, evaluate critically, and synthesise a significant amount of information (including information contained in the ROP model) about a client. It is the ability to synthesise the information concerned that is essential for the model to work.

# 5.0 CONCLUSION

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The interactive model of the actiology of fraud holds that fraud is generally committed as a result of a combination of factors, namely, rationalisations, opportunities and person(s). It is argued that a variety of people commit fraud for a variety of motives and who the offenders are cannot be attributed to a random process. The model sets out the different ways in which fraud becomes possible when a crime-prone individual under financial pressure or with other motives, perceives at least one opportunity to commit fraud and the individual has both the knowledge to commit (alone or in collusion) and conceal the fraud and possesses the neutralising verbalisations that enable him/her to perceive committing the offence once or repeatedly seem "right". The need to locate the three sufficient components of ROP in a broader socioeconomic context is emphasised. Rationalisations constitute the most vital of the three components that make up the psychological process of information processing and decision making that precedes an act of fraud. By incorporating ideas from the existing models and expanding on them, and by introducing the concept of crime-proneness drawing on knowledge in other disciplines, ROP can be said to be a new model with high usefulness potential for auditors.

The need to enhance auditors' fraud detection ability cannot be overemphasised. Audit experience alone, however, cannot make auditors fraud-detection experts. The ROP

model of the actiology of fraud is an important part of the celectic fraud detection model developed in this chapter. The model of fraud detection highlights the importance of having a competent, ethically-minded auditor, who is well versed in the actiology of fraud, in management deception strategies and counter deception strategies, and who enjoys the full support of his/her firm as far as fraud detection is concerned. Moreover, an auditor should have a good overall view of the company's environment and internal control system, be alert to information about both individuals within the company who are high risks of potential fraud as well as about the company's relationship with outside parties and, finally, be aware of and guard against his/her own unintended biases in carrying out the audit.

Two studies were conducted to test the models developed in this chapter. These studies are reported in Chapters 5 and 6. The first study was concerned with demographic, *modus operandi* and criminal justice characteristics of major fraud offenders prosecuted successfully by the MFG in Melbourne. The first study also aimed to construct a two-component profile of the major fraud offender and to test the ROP model as well as Loebbecke et al.'s (1989) fraud assessment model. The second study involved a survey of 108 Australian auditors' experience of detecting irregularities including management and employee fraud. The second study also tested a number of hypotheses based on the fraud detection model proposed and examined the applicability of Loebbecke et al.'s fraud assessment model. The ROP model could not be tested in the second study as the auditors surveyed (see Chapter 6) were in no nosition to provide adequate data on offenders' crime-proneness and rationalisations.

#### CHAPTER 5

# PROFILING MAJOR FRAUD, OFFENDERS PROSECUTED BY THE POLICE

#### CHAPTER SUMMARY

After outlining the method of criminal profiling, attention is focused on the empirical study of 50 major fraud offenders, the methodology used and the data collected. A list of 24 representative case summaries is provided before reporting the findings obtained. Relevant findings are then discussed with reference to the applicability of the ROP model developed in this thesis and Loebbecke et al.'s (1989) model of fraud assessment. Demographic, modus operandi, and criminal justice characteristics of the offenders are also reported as there are interrelationships between offence, offender, victim, and criminal justice factors. This chapter goes on to report a profile of major fraud offenders which comprises a general-level component and another component in terms of particular typologies of fraud victimisation.

## 1.0 // INTRODUCTION

An apparently untapped source of knowledge for auditors is to be found in official files on serious fraud offenders prosecuted by specialist police squads like the MFG in Melbourne or the Serious Fraud Office in London and in New Zealand. Who are these offenders who commit fraud for or against companies? What motivates their criminal behaviour? How do they justify doing what they do? Do they stand out in any way? If so, how can auditors use such information to assist them in detecting fraud? The criminological research reported in this chapter attempts to provide answers to these questions.

The film "Silence of the Lambs" popularised one approach to investigating serious crime known as "criminal profiling". The well-known British expert on criminal profiling, Professor David Canter, argues, in his 1994 book *Criminal Shadows: Inside the Mind of a Serial Killer*, that a profile is like a silhouette, a shadow, that an offender leaves behind at the scene of the crime. The profiling process developed by the FBI's Behavioural Science Unit (see Douglas, Ressler, Burgess, and Hartman 1986), also known as "psychological profiling" as well as by its technical term "criminal investigative analysis", is "an investigative technique by which to identify the major personality and behavioral characteristics of the offender based upon an analysis of the crime(s) he or she has committed" (Douglas and Burgess, 1990:1). Thus, while profiling does not yield the specific identity of the offender, it points to the kind of person most likely to have committed the offence(s) (Douglas et al., 1986).

The concept of offender profiling is based on the argument that "neither a crime nor an offender is completely unique" (Jackson and Bekerian, 1997:2). In other words, there are limits to the number of motives and the methods of carrying out a crime - there are always patterns to be identified and to be compared with those in other cases (p.2). In view of the fact that fraud often involves serial offenders, offender profiling can provide auditors with useful knowledge to improve their fraud-detection ability. Profiling "can be based on clinical experience, research and statistical analysis of offender databases" (Jackson and Bekerian, 1997:3).

#### 1.1 The profiling process

According to two FBI special agents Douglas and Burgess (1990) who have contributed to the development of criminal profiling, the technique is a viable investigative tool against violent crime. Criminal profiles draw on demographic and police data on particular categories of offenders and interviews with known offenders. According to Douglas and Burgess (1990:1), the process by which a criminal profile of a violent offender is constructed, generally involves the following seven steps:

i. evaluation of the criminal act itself:

comprehensive evaluation of the specifics of the crime scene(s); ii.

<sup>≜</sup>iiį. comprehensive analysis of the victim;

evaluation of preliminary police reports; iv.

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evaluation of the medical examiners' autopsy protocol;

٧. vi. development of profile with critical offender characteristics; and

investigative suggestions predicated on construction of the profile (p.1). vii.

In order to develop a psychological profile of a scrious criminal it is essential that the crime scene be carefully studied. In the case of major fraud, the crime scene may be someone's office, one or more computers used by the offender and the system of internal controls. The weapon used by a fraud offender is his/her deception strategy and tactics. Turco (1990) emphasises the importance of being able to utilise demographic material based on population studies of known perpetrators of particular crimes when it comes to constructing a profile. In the case of major fraud, such data could include the type and style of deception used, the relationship between the offender, the victim(s) and the method(s) used to conceal the offence(s). The offender's motive(s) is an integral piece in this criminal jigsaw puzzle.

Criminal profiling (personality assessment) has been used to narrow the field and thus assist police in: managing hostage negotiations, identifying anonymous letter writers and individuals who have made oral or written threats of violence, investigating single and serial cases of arson, rape, and sexual homicide (Douglas and Burgess, 1990). Profiling has also been used with serious obsessive-compulsive offenders, including exhibitionists and kleptomaniacs (Reese, 1979 - cited in Blau, 1994). Finally, in an unusual proactive application of profiling, Hagaman, Wells, Blau and Wells (1987) developed a family homicide profile that could be used to predict such an event and possibly prevent the homicide. Proactive profiling has not been used with fraud.

According to Copestake (1994:17), criminal profilers like Canter maintain that in order to understand and predict crime one needs to look for clues in the lives of individual offenders, in the "shadows" they leave behind. In order to understand the individual

offender and their crime, one needs to assess the "distorted story about life each offender tells him/herself". "Distorted stories about life" refer to offenders' rationalisations that help them to: (1) justify their criminal behaviour to themselves and reduce, if not remove completely, any sense of guilt; and (2) resolve any discrepancy between, on the one hand, viewing themselves as successful and "respectable" citizens/professionals and, on the other, the knowledge that they are committing crimes.

Turco (1990:148) points out two limitations of profiles based on such data. First, an accurate prediction before the arrest of the subject is not possible since a large number of people fit the demographic characteristics of the profile but do not commit the crime in question. Second, there is no real theoretical basis for the profiles. Turce does admit, however, that such profiles allow organisation of material collected by police investigators. A theoretical basis is provided for the profile of fraud offenders put forward below.

According to investigative profilers at the FBI Behavioural Science Unit, profiling has been used by law enforcement in the U.S. "with success in many areas..." (Douglas and Burgess, 1990:1). Tetem (1989 - cited in Blau 1994) reviewed 193 cases where profiling was done and found that 45% of the cases, had been resolved. Of more interest, perhaps, is Tetem's finding that in 17% the accuracy of the profile was such as to identify the suspect. Tetem also reported that in 77% of the cases the profile had been of significant help to the investigation. Blau (1994) concluded his discussion of the usefulness of criminal profiling stating that it is a potentially useful tool.

Of course, some of the demographic attributes of fraud offenders (e.g., age and educational status) are obvious. This is due to the time and qualifications normally required to acquire a position of financial trust in a corporation where one can effect major fraud.

Utilising data from police prosecution files on major fraud offenders, the study reported in this chapter attempts to:

- i. collect and analyse demographic, modus operandi and criminal justice data;
- ii. identify clues to the frauds in the lives of the offenders and in the rationalisations they tell themselves and to the police investigators;
- iii. construct a two-component profile of offenders consisting of: (1) at a general level, demographic characteristics; and (2) a classification in terms of offender typologies;
- iv. compare fraud indicators in the ROP model and Loebbecke et al.'s (1989) fraud assessment model with those identified in the Major Fraud Group of the Victoria Police (MFG) cases;
- investigate Loebbecke et al.'s argument that all three of their model's components must be present for fraud to take place;
- vi. test Gottfredson and Hirschi's (1990) premises in their general theory of crime that: (a) white-collar offenders (like the major fraud offenders studied) do not specialise in one type of crime, but are versatile; and (b) that a person's selfcontrol in interaction with criminal opportunity, is the major cause of crime; and

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 examine the validity of the eight assumptions underlying the ROP model of fraud correlates.

Drawing on the existing empirical literature, the study reported in this chapter investigates whether the following seven propositions are applicable to the serious fraud offenders examined as well as the validity of one prediction of the ROP model and one of the Loebbecke et al. (1989) model of fraud risk assessment:

- the probability of fraud occurring is a function of opportunity, a motivated crime prone individual and rationalisations;
- ii. a serious fraud offender will tend to have weak self-control, be egocentric and indifferent to the consequences of his/her behaviour;
- iii. some of their motives for committing the offence are such as to distinguish them from common offenders (i.e., persons perpetrating major index crimes other than fraud). More specifically, unlike common offenders like burglars or armed robbers, their motives will include greed, revenge and committing fraud as a challenge, i.e., in order to beat the system.
- iv. they generally utilise techniques of neutralisation to reduce their status incongruence that arises out of their offending (Matza, 1969);
- v. the majority are first offenders (Cressey, 1986);
- vi. there are identifiable clues to the crimes perpetrated in the lives of such offenders;
- vii. a criminal profile of such offenders is possible;
- viii. that, generally, Pr(Fraud)=f(R,O,P); and

ix. according to Loebbecke et al. P(MI) = f(C,M,A). However if the hypothesis that fraud is possible with two components, is borne out by the findings, it will cast doubt on Loebbecke et al.'s (1989) fraud risk assessment model by falsifying its basic premise that all three conditions must be present for a material irregularity to occur.

The seven propositions and the two predictions listed above were tested in a study of 50 major fraud cases prosecuted by the Major Fraud Group of the Victoria Police.

# 2.0 A CASE STUDY APPROACH OF 50 MAJOR FRAUD CASES IN VICTORIA

### 2.1 Methodological considerations

# 2.1.1 Why study MFG records?

The MFG is the largest of the crime squads within the Victoria Police. The MFG was selected for two reasons:

- i. Access was granted by the Victoria Police to MFG records.
- ii. There are a large number of cases processed by the MFG, a relatively quick turnover of cases, and a high conviction rate of offenders. The basis for this expectation was the fact the MFG comprises teams of investigators from different specialist fields (detectives, accountants, lawyers, computer specialists, and criminal intelligence analysts), the specialist function of the MFG and its length of expertise and resources.

According to the then Officer-in-Charge of the MFG, Commander Allen Bowles, the criteria for the MFG to take on a fraud investigation are: instruction by the Assistant Police Commissioner for Crime to undertake a particular fraud investigation; the complexity of a fraud being such as to be impossible for divisional detectives to investigate; and/or evidence of corruption by public officials. The study was commenced at the beginning of 1995 once approval was granted by the Victoria Police and it took 10 months to complete.

When a criminal prosecution case file is created by the MFG it contains the following information:

- i. details of the charge (the charge, under what law the suspect has been charged, whether it is a summary or an indictable offence, whether there are more charges);
- ii. the person charged;
- iii. details of the offence (statement to the police by the accused and other parties interviewed by the police in investigating the matter, and the police record of the interview(s) with the suspect(s)); and
- iv. when a defendant is sentenced by a court (the date(s) of the trial, the date of sentencing, the identity of the court and of the judge concerned, the presentment (i.e., how many counts of a particular charge), type of plea and details of the sentence(s) imposed.

During the period January 1990 - October 1994 the MFG investigated 196 fraud matters. It is not possible to be 100% accurate about how many cases are investigated by the group annually since investigations are a continuing exercise and the group has only recently attempted to computerise its records and create a comprehensive database. At the time of writing, a national database was in the process of being created. The 196 cases were listed by occupation of the offender (see Table 1). Occupation was used because the study was concerned with financial fraud by people in positions of financial trust. To have used instead the type of fraud committed would have meant including cases such as social security fraud, medical fraud and credit card fraud which were outside the scope of the research.

Table 1: Occupation of Offenders in the Population

Number of offences	% of offences	Occupation of Offender		
76	38.7		other (chefs, gardeners, cleaners, clerks, salesmen, receptionists)	
29	14.8		unemployed, pensioners, prisoners, students	
22	11.2	**	management, finance consultants, bank managers	
20	10.2	**	company directors	
19	9.7	**	lawyers	
15	7.6	**	accountants and bookkeepers	
8	4.0	**	bank tellers	
4	2.0	**	brokers, gold dealers	
3	1.5		other professionals (doctors, engineers)	

<sup>\*\*</sup> Occupational categories included in the cases studied

### 2.1.2 Selection of major fraud cases

In view of the study's focus on major fraud committed by people in positions of financial trust, a case was selected for inclusion in the study on the basis of three criteria:

- i. it had been processed by the court and the defendant had been sentenced (in which case information about the offenders would be considered public knowledge) and the file was accessible;
- ii. it involved one or more of the following convictions for deception (as opposed to theft):
  - a. obtaining property by deception;
  - obtaining financial advantage by deception;
  - c. forgery and uttering;
  - d. false accounting; and/or
  - e. deception; and
- iii. the offender(s) belonged to such occupational categories as company directors, lawyers, bank officials, accountants, brokers, share traders and management which involve financial trust.

In deciding which cases to study from those prosecuted by the police, it was considered important that the types of frauds and the individuals involved be of the kinds encountered by auditors. It could be argued, however, that cases of fraudulent financial reporting (in order to support earning trends, plans for bonus compensation,

proxy support for a broad range of proposals, or merger and acquisitions) as opposed to fraudulent financial reporting to conceal theft of assets, should be preferred because that is where auditors are at a greater legal risk and where financial statements are most likely to contain material misstatements. On the other hand, frauds involving theft of assets or misappropriation of assets are what the majority of auditors in Australia are most likely to encounter in their work and there have been cases against auditors for failing to detect them. Support for the types of fraud cases studied was provided by the survey of Australian auditors' experience with fraud detection (see next chapter) which found that a minority of the respondents had encountered a fraudulent financial reporting case as opposed to theft cover up.

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Selecting cases processed by the court is justified on the basis that if someone has been convicted of a crime it is accepted as evidence that they committed the act in question. The alternative of using cases of individuals investigated and charged with deception offences by the police was decided against for the following reasons: (1) a person is considered innocent until proven guilty; (2) the charge(s) of which someone is/are convicted by a court or pleads guilty to after being charged is/are sometimes different from the original charge; (3) if a trial is pending, the police would be reluctant to allow access to information about a case as the information only becomes public when considered during the trial which results in conviction;

<sup>1</sup> According to SAS 82 (AICPA,1997, para.4) "fraudulent financial reporting refers to intentional misstatements or omissions of amounts or disclosures in financial statements. Fraudulent financial reporting may involve acts such as the following: (a) manipulation, falsification, or alteration of accounting records or supporting documents from which financial statements are prepared; (b) misreprentation in, or intentional omission from, the financial statements of events, transactions, or other significant information; and (c) intentional misapplication of accounting principles relating to amounts, classification, manner or presentation, or disclosure."

and (4) vital information about the response of the criminal justice system to such convicted offenders (e.g., the penological approach to sentencing, the type and length of the sentence) becomes available only if a person is found guilty and is sentenced or pleads guilty and is sentenced.

O As in Benson and Moore (1992) and Weisburd et al. (1990), an offence-based definition was used to select cases, thus making it possible to compare results. Application of the three criteria resulted in a final list of 50 cases of fraud. The final list of cases was obtained as follows. Drawing on the computerised records of the MFG, at the end of October 1994 there were 196 briefs for fraud matters since January 1990 where the occupation of the accused/defendant was given. Of those, the investigation was completed (i.e., there was a completed brief available) for 99 cases. Thirty-seven matters involved occupations that were either beyond the scope of the research or where the cases should have been included but were not because it proved impossible to locate the files. Cases that were excluded involved social security fraud by, for example, an unemployed prostitute, two unemployed professional punters as well as 13 unemployed persons, four prisoners and two oldage pensioners convicted of social security fraud. A number of doctors involved in medicare fraud, a concreter who falsified invoices, and a housewife who collected large amounts of money for fictitious charity causes should have been included but were not because it proved impossible to locate their files. Four additional cases were also not included; they involved two cases where the police investigation concluded there was "no case", and two others which had been prosecuted and been dismissed by the court at first hearing because no prima facie case was established by the prosecution against the accused.

Like Langdale (1990), a number of difficulties were experienced in getting hold of the briefs. Once commencement of the search of the briefs began, it became apparent that all completed pre-1993 briefs had been destroyed due to lack of storage space and some of the post-1993 cases were not located at the Major Fraud Group's offices but at other Metropolitan police squads or stations and some in country stations<sup>2</sup>. Hence, it took a lot more resources and time than anticipated to locate, arrange access, and code the data for analysis.

It proved impossible to access a total of eight files also relating to fraud by persons in positions of financial trust. Three of the files were located at country police stations a fair distance from Melbourne and the detectives responsible for them proved impossible to meet with due to their being on leave and/or attending court for other cases and/or attending training courses. The other five additional cases were not included in the study because (even though the offenders had been convicted and sentenced) they were the subject of an appeal to a higher court against conviction or sentence imposed and case information could not be made available to the author at that stage in the legal proceedings. Those eight cases identified as relevant to the study but not included were not different from the 50 that were studied because they, too, involved deception offences by persons in positions of financial trust. In other

<sup>&</sup>lt;sup>2</sup> It is the practice at the MFG that detectives working on an ongoing investigation who are transferred from the MFG to other stations are expected to take the brief with them and to follow the case through to its completion.

words, no systematic bias existed in those eight cases.

It was not considered necessary, as in Langdale (1990), to attend court hearings since the briefs had all the details required about the case and the offender. Unlike Langdale, the present study was not designed to look at "legal difficulties in alleged business fraud, the loss and hardship it may or may not cause, the offender's perspective and consequential media report" (p.17). In addition, as Langdale discovered, "the length of each brief was considerable and the fixed court date not less than eight weeks" (p.17), factors that made it impossible for the research to focus on additional aspects of fraud trials in view of the constraints on time and resources available to the researcher. The amount of money involved in a fraud case varied from \$17,173 to \$108,580,000 with the mean average dollar loss to the victim(s) per case being approximately \$4.4 million. While the cases studied cannot be said to be representative of serious fraud cases investigated by the MFG in general, they can be said to be representative of major management fraud investigated by the MFG (e.g., misappropriation of trust accounts money, false valuations, false loans, stealing customers' money) and prosecuted by the Director of Public Prosecutions in Victoria.

Unstructured interviews were also conducted with MFG detectives to supplement the data on offenders available in the MFG briefs. The data were collected for the purpose of generating a taxonomy (i.e., a list of typologies) of such offenders. A total of 13 interviews were carried out with detectives who headed particular investigations and were responsible for preparing the prosecution brief.

The types of fraud involved in the fifty MFG cases used in this study are shown below in Table 2.

Table 2: Types of Fraud in the MFG Cases

Types of Fraud	Number of Cases	% of cases
Financial statement manipulation and theft of assets	23	46
Trust account fraud	14	28
Theft of assets	11	22
Financial statement manipulation	1	2
Financial statement manipulation and trust account fraud	1	2
Total	50	100

#### 2.2 Data collection and coding

For the purposes of the study, following lengthy discussions about fraud offenders with three experienced senior members of the Major Fraud Group (MFG) of the Victoria Police, a pilot qualitative case study (N=6) was carried out to familiarise the author with the content of the police files and to enable a coding guide to be constructed. Subsequently, major fraud cases investigated and successfully prosecuted by the MFG were studied and data coded for quantitative analysis. The

<sup>3</sup> A coding guide was prepared beforehand to enable the researcher to identify key areas for statistical analysis of the data. The researcher followed two approaches; (1) once the brief was read, the case was given a number and, in order to guarantee confidentiality, the case was also summarised anonymously; and (2) the facts of each case were coded for analysis.

coding guide enabled the coding of data pertaining to 27 variables largely from the literature review (see Chapter 2 and Appendix III). Data was also collected to test the opportunity and person components of the ROP model. Qualitative data on offenders' rationalisations were also collected.

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The following are the main demographic and criminal justice characteristics for which data were collected and coded and the rationale for their inclusion: offender's gender, marital status, age, occupation, criminal record, type and number of frauds committed and other non-fraud offences, under what legislation (state or federal) the offender was charged, number of victims, relationship with the victims, number of accomplices, how the fraud was discovered, motivation, whether the offender was specialist or versatile, pre-trial status, type of legal representation, court of first instance, severity of sentence, amount of money involved in the fraud(s), type of irregularity committed, and whether fraud indicators were present. Two additional variables, ethnicity of the offender and the length of time it took police to prosecute a case, were dropped from the analysis because the former was difficult to determine reliably and the latter because it was decided not to address the issue of MFG efficiency and effectiveness.

The variables were chosen because they had been identified as relevant to the aetiology of fraud in the discussion of the empirical literature and/or because they form part of the ROP model. Additional variables relating to processing of the cases by the courts were dropped at the data-analysis stage following a decision to focus more on fraud.

#### i. Gender

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Gottfredson and Hirschi (1990); Ross (1977); Wheeler et al. (1988, 1982); and Weisburd et al. (1990) discuss males as offenders of white-collar crime. Wheeler et al. (1988) argued that women offenders are under-represented among the highest tier of white-collar offenders, such as antitrust and securities fraud, because they occupy relevant organisational positions in lesser numbers than males. The Wheeler et al. (1988) sample was drawn from 1976-1978 records. Nowadays, however, women have higher educational achievements and are more likely to choose a professional career. As mentioned earlier, it has been claimed that women commit fraud for different reasons than men, Zietz (1981) reported that women who committed whitecollar crime were more likely to do so due to family needs than to fund high living, unlike their male counterparts. However, limitations of the Zietz study (discussed in Chapter 2) mean that we cannot accept unquestioningly her conclusion that women's criminality is motivated by family needs more than men's. Zietz (1981) was also testing Pollak (1950) and Reckless' (1961) findings that female crime has traditionally been underestimated in criminology (Pollak, 1950:161) as well as the claim that female crime is due to women being "more deceitful than men" (Reckless, 1961:8). Reckless argued that women belong to a "special order of criminal behaviour" (p.78) and findings should not be generalised. Gender differences in criminal behaviour have also been proposed by Barnes and Teeters, (1959:62) who stated that there is a group of women who are "calculating, fascinating and intelligent, who capitalise on their charm and femininity". However, the question of whether women white-collar offenders are more deceitful than their male counterparts cannot be answered on the basis of existing empirical evidence. Gender was not used as a determining factor when the sample of cases was selected by the present author. Finally, on the basis of the existing literature, there is no reason why the ROP model should distinguish between male and female fraud offenders.

#### ii. Marital status

While neither Wheeler et al. (1988) nor Weisburd et al. (1990) investigated the marital status of the white-collar crime offenders, Ross (1977:32) wrote that the white-collar crime perpetrator is not anti-social and "is likely to keep his marriage vows, pay his debts, mixes well, stands by his friends, he is ready to protect maidens, or help poor widows". However, the study of female prison inmates by Zietz (1981:104) found that "all of the women in this group had one or more unsuccessful marriages and were currently living alone, with or without children, or with their parents". Marital status, as an indication of a defendant's social ties, is a legally-relevant factor at the sentencing stage (Thomas, 1979), and may be useful in understanding offenders' motives and rationalisations. Both financial and non-financial pressures for someone to commit fraud can be related to their marital status.

<sup>4</sup> Gender is a factor that is taken into account by the judiciary in imposing sentences on convicted criminal defendants (Thomas, 1979). Discussion of the issue of sexism in sentencing is beyond the scope of this thesis.

#### iii. Age

In contrast to the majority of conventional/street offenders who tend to be aged under 18 (Feldman, 1993), the average white-collar offender in Wheeler et al. (1988) and Weisburd et al. (1990) was 40 years old. The average age for street criminals in Weisburd et al. was 20 to 30 years. Weisburd et al. (1990) also reported that white-collar offenders are likely to begin their careers later than street criminals. Undoubtedly, there is a link between age and white collar offending, since by the time one completes one's tertiary education and obtains sufficient professional qualifications and experience to command a highly paid position of financial trust such as accountant, solicitor, or bank-manager, one would be at least 30 years old. There is, however, scope for age differences between different major fraud offenders. Interestingly, as far as female inmates serving sentences for fraud are concerned, Zietz (1981:114) found that "age did not appear to be a significant factor, although the majority were less than 30 years of age".

### iv. Occupation

Wheeler et al. (1988) compared convicted white-collar and common crime offenders on a variety of social and demographic indicators. As would be expected, they found that white-collar offenders had a higher educational attainment than street offenders, and had histories of steady employment. Coleman (1987) believes that white-collar offenders use their occupation as an opportunity, but Spark (1994) goes a step further and argues that in addition to using one's job, if there is a complicated group structure or financial dictatorship then that is an added opportunity.

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### v. Fraud charges and other non-fraud offences

Korn and McCorkle (1959) pointed out that "the earliest and still the most common way of classifying criminals is in terms of the legal title identifying the criminal act" (p.142). The categories of fraud charges used most frequently by the MFG were:

- a, obtaining property by deception;
- b. obtaining financial advantage by deception;
- c. theft; and
- d. forgery.

One of the issues in the literature concerns the question of whether white-collar offenders are specialists or generalists (like street offenders) in the types of crimes they commit. Using official New Zealand data, Thomas (1992) reported that many fraud offenders reoffend; more specifically, 34.1% were later reconvicted for the same offence, and 68.2% reconvicted for fraud or any other crime (p.125). Benson and Moore (1992) concluded that white-collar offenders were a lot less involved in crime than street offenders. White-collar offenders were reported by Wheeler et al. (1988) as having a surprisingly high number of prior arrests and convictions, but were still lower in that regard than common criminals. Weisburd et al. (1990) found that more than one in seven securities fraud offenders had a prior felony conviction, as did more than a quarter of those convicted of credit fraud, false claims, and mail fraud. Even with the more elite population of white-collar offenders such as doctors, lawyers, accountants, office managers and owners of substantial capital, there was evidence "of criminal careers ... within a highly restricted population of elite white-collar offenders" (p.347). They reported that a nontrivial "proportion of white-collar

offenders were found to be repeat offenders and some had serious and lengthy criminal records" (p.343). The same authors suggest that white-collar offenders do not specialise in white-collar crime.

### vi. Relationship to the victim

The offender-victim relationship is of importance as far as both patterns in criminal behaviour and implications for its detection and prevention are concerned. It is also significant in sentencing because the violation of trust (a basic feature of many deception white-collar crimes) is an aggravating factor (Thomas, 1979). Regarding the type of victim, Wheeler et al. (1988:338) claimed that "common crimes victimise individuals. In contrast, the majority of federal white collar offences involves victimisation of organisations ... they are also likely to use an organisational form for their commission".

#### vii. Number of accomplices

For some deception offences to take place, more than one offender is needed because of a need for collusion. An example might be a bank manager and a real-estate agent operating a deception ploy, whereby the bank manager approves housing loans for properties he/she knows have been overvalued and is paid secret commissions by the real estate agent. Furthermore, an important question of interest to both police, detectives and the judiciary is whether an offender has been operating alone to commit a fraud or with accomplices. At the sentencing stage, having accomplices is an aggravating factor as it often points to more planning being involved (Thomas, 1979). Wheeler et al. (1988), the only researcher in this area to have looked at this

variable, found that "only about nineteen percent of the common crimes involve five or more persons in addition to the defendant, while more than one-third of the white collar offences have as many participants" (p.339). It should be noted here, that any of the categories listed under "motives" in the ROP model could involve an offender with or without accomplices.

#### viii. How the fraud was discovered

Fraud is often carefully concealed and it would be of interest to know how it comes to light (e.g., who becomes suspicious and reports the matter to the police or someone else). Information about this variable was also considered in order to gauge the apparent involvement of auditors in fraud detection.

#### ix. Motivation

One of the essential components of the proposed ROP model is a crime-prone person with a motive for committing fraud. Offenders commit their crimes for many and various reasons. Business failures, drug addiction, gambling and particular lifestyles needing large amounts of money are important factors in understanding why someone might commit fraud. Other possible motivations might be revenge, greed and megalomania. Cressey (1986,1980) discounted gambling, alcohol or spending beyond one's means as causes of embezzlement, and reported that one of the offenders studied was willing to do anything to give his wife and children what they needed. For Cressey, "ascribing bad motives to behaviour does not explain that behaviour" (1980:121). According to Thomas (1992:125), family needs is more of an acceptable justification coming from women rather than men. As criminologists are

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not tired of telling us, drug addiction is a major cause of various criminal offences in society. Benson and Moore (1992:263-264) indirectly tested for this variable and found that "neither white-collar nor common offenders are likely to have drinking problems...only 6% of white-collar criminals are reported to have used illegal drugs, compared to almost half of the common criminals". Knowledge about vice(s)/motivation(s) of an offender helps to construct the offender profile and to develop a model to explain the reasons why major fraud is committed. Some of the vices identified for testing were: gambling, drugs, greed, to pay personal bills, to pay business bills, and lifestyle (e.g., leading a double life or otherwise living beyond one's means in order to maintain a particular self-image).

#### x. Pre-trial status of the offender

The decision to grant a defendant bail or remand them in custody indicates how the courts view a defendant (i.e., whether they pose a serious risk they may abscond, or whether they will commit another serious crime), a factor that can be expected to impact on sentence choice and severity.

xi. Legally represented by a private lawyer or by a court-appointed lawyer.

This is to identify if the offender had the resources available to finance his/her legal defence.

# xii. Severity of sentence

A lot has been written about white collar-crime offenders not receiving a fair punishment for their crime. Bologna (1993) claims that U.S. fraud offenders believe that "if you are going to be a financial crook be a big one...[since] the greater the offence against the capital, the less the punishment imposed by the sentencing judge" (p.7). Information about the type and severity of sentence imposed was collected because it is relevant to a discussion of deterrence theory. The severity of the sentence is looked at where applicable.

# xiii. Amount of money involved in the fraud

Information on this factor was collected in order to throw some light on sentencing decisions, as it largely determines perceptions of harm done, i.e., perceptions of offence seriousness. Furthermore, it could be argued that the greater the money involved, the better the position the offender is in to bargain his plea with the police, who might be also interested in recovering some of the money involved in a spate of deception offences, so that the victims can recover some of their losses. Finally, that victims have recovered part or the total of their financial losses is a mitigating factor that the judiciary would normally take into account (Thomas, 1979). Information about this variable would also be useful in gauging the scale of the frauds investigated by the MFG.

# xiv. Type of irregularity

As already mentioned above, one of the aims of the research is to test Loebbecke et al.'s fraud risk assessment model which differentiates between "defalcation" and

"management fraud". Information on this factor was also collected because different types of irregularities have different implications for auditors, as far as their duty to detect and report such illegal acts is concerned.

## xv. Fraud-facilitating conditions (i.e., fraud indicators)

Information was collected on this factor because of its potential importance for auditors. In addition, "conditions" is one of the components of the ROP model (O) and of Loebbecke et al.'s (1989) model being tested by this research.

#### xvi. Rationalisations

Possessing rationalisations (i.e., neutralising verbalisations) is a necessary component for fraud to take place. As Cressey (1986) pointed out, it is an individual's ability to rationalise and justify perpetrating the offence(s) that makes fraud possible. Qualitative data about the offenders' rationalisations was extracted from sworn written statements made to the MFG detectives investigating.

#### 3.0 THE MFG CASES USED IN THIS STUDY

Representative case summaries are provided below, with the ROP model components present being indicated, in order to provide the reader with an idea of the type of cases studied. Cases where the facts are similar are not repeated. Due to a confidentiality agreement signed by the author, the cases are presented without any identifying details about the offender or the victim(s). The decision whether an offender had certain characteristics e.g., low self-control and his/her type of

motivation (e.g., greed) was arrived at after careful examination of all the information in the MFG file.

Case one involved a fraud of \$1,785,000 committed by a member of middle management in a finance company. The male offender had sole responsibility over computer assets, recording, and investments at a time when the company's bank lost the original authorised signature card with a specimen of the two signatories (*Person and Opportunity*). He was engaged to get married and needed money (*Motive: financial problem*). Exploiting his company's weak internal controls, he submitted one card with one signatory only. He redeemed clients' Commercial Bills without their consent, paid them the interest due and paid the remainder into his personal account. He used the money to buy a house and a car for himself and his fiancée. After his first "success" he became both over-confident and more greedy and proceeded to commit more frauds. He justified the frauds on the basis that he would one day pay it back (*Rationalisation*). Realising he would not be able to pay back the money after all, one day he left his fiancée a note admitting having defrauded his company. She, in turn, informed the police.

The second case was for \$1,600,000. The offender, was a director who was an undischarged bankrupt and a career comman (*Person*) who without adequate screening of applicants for management positions deceived his two co-directors into signing blank cheques (*Opportunity*). He opened eight bank accounts in the names of each of the other directors with overdraft facilities of \$200,000. He then debited each account with \$200,000 and credited his own account with that sum of money. As far

as he was concerned, he was entitled to whatever money he could get (Rationalisation). A fellow co-director suspected the fraud and the police were called in.

The third case involved a female accountant who committed a fraud of \$2,300,000. She banked a client's bank cheque into the practice's trust account. The bank incorrectly credited the account with three zeros too many (Opportunity). Once the offender became aware of this, seeing no reason why she should not appropriate the money for herself and perceiving a low risk of being prosecuted (she felt that the bank did not really need the money- Rationalisation), the account was debited and the money sent off to various friends and the offender's spouse. The bank soon realised a mistake had been made and contacted the offender. She claimed that she had assumed the money had come from an inheritance she had been expecting.

Case four was for \$174,211. A 30-year old single male finance manager, with low self-control needed money to pay university fees for his brother as well as to help his sister who was living overseas (*Motivated crime-prone person*). He was responsible for investing \$1.5 million to maintain a minimum working capital. He exploited the company's weak internal controls (*Opportunity*) to falsify payment vouchers and to appropriate the money from his employer's bank account. He justified defrauding his employer on the grounds that "nobody would get hurt" (*Rationalisation*). He was found out by the external auditor.

Case five involved a fraud of \$345,000. Perceiving a low risk of being apprehended

(Opportunity), a crime-prone 40-year old married male solicitor (Person) deceived 17 clients (from conveyancing and divorce cases) into investing money in a company supposedly for better returns. He did not inform his clients that he owned the company concerned. He then misappropriated the investments. He covered up the frauds by making it appear that the clients had loaned their money to him. His justification was that he had the clients' authority since there were only "technical deficiencies" in their trust accounts' (Rationalisation). He was found out when a client died and the beneficiaries asked for their money held in the trust account.

Case six involved a fraud of \$1,381,304. The offender was a 37-year old male solicitor who had a serious financial problem because he could not meet interest payments on a loan he had taken out to build a medical clinic (*Person with a motive*). Since he had access to his clients' land titles and their money in his trust accounts and in the absence of capable guardians (*Opportunity*), he raised the money he so urgently needed via false accounting. He rationalised the frauds in terms of "merely borrowing money" from clients with the intention of paying them back later when his investments would yield a significant profit (*Rationalisation*). He was found out when a client insisted on withdrawing his money from the trust account.

Case seven concerned a fraud of \$280,000. A 40-year old opportunist married male solicitor, (*Person*) had access to clients' trust accounts and perceived a low risk of being found out if he committed fraud against his clients (*Opportunity*). He invested his clients' monies under an alias and used some of the money to purchase personal

property. He justified the frauds on the grounds that he was "only borrowing money from clients" and intended to pay the money back into their accounts at a later stage (Rationalisation). He was found out when a client asked for the money in her trust account, became suspicious and contacted the Law Institute.

Case eight was for \$886,769. In this case the offender a 50-year old consultant accountant, a professional comman who in the past had used three different aliases and was a compulsive gambler and a liar, purported to be a qualified accountant (Person with a motive). He was employed by a company (with weak internal controls to prevent fraud) as a consultant and was entrusted to requisition cheques as required (Opportunity). The offender would write up requisition forms, attach supporting documentation and write up the cheque details in erasable ink. Once the cheques were signed he would alter the payce and amount. The changes made were not obvious on the cheque. He forged a total of 341 cheques thinking of himself as a professional fraudster who was entitled to whatever he could get away with (Rationalisation). He was found out by an auditor.

Case nine was for \$100,327. This fraud was committed by a 42-year old male bank manager who perceived a low risk of being found out and being greedy for money (*Person with a motive*) took advantage of weak internal controls (*Opportunity*). He approved unsecured loans to two business partners above and beyond what he was authorised by the bank to approve. They had promised him a senior position in their company in the near future as well as a financial reward in return for his "services" to them. To cover up the unsecured loans, he also approved loans to fictitious

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customers. The money was paid into a number of accounts opened under assumed names. There was a need to avoid the excessive unsecured loans from being included by the bank's computerised internal control system on a list of loans that management would review regularly. That he did by using money from the fictitious accounts to reduce the balance of the unsecured loans. As far as he was concerned, what he was doing was justified as a means to an end (*Rationalisation*). He was found out by the bank's auditors.

Case 10 involved a fraud of \$136,161 which was committed by a member of middle management, a 40-year old married male. He was a compulsive gambler with a propensity to lie and a financial problem (Crime-prone person with a motive). He was in charge of accounts payable and had access to the computer system (Opportunity). He used the lack of segregation of duties to create fictitious accounts/files. He then made unauthorised alterations or deletions to document which allowed him to generate seven cheques made payable to himself. He subsequently negotiated the cheques in his personal account. His justification for what he did was that he "really needed the money" (Rationalisations).

Case 11, was a \$10,860,000 fraud committed by a finance broker. Two credit union members had taken out a loan for a business venture, but due to financial difficulties they could not pay it back. They found an Australian living in Asia (a megalomaniac male, dreamer and schemer who loved "flaunting himself" in the business world as a high-flier, a motivated crime-prone person) who was willing to buy the business and re-finance the loans but required in excess of \$10 million. The credit union rules,

however, prohibited such large amounts being loaned to one individual. Exploiting weak internal controls (*Opportunity*), he made 20 fictitious names and addresses and provided false or overstated properties as security. The purpose for the large amount being borrowed was to pay off existing loans with other financial institutions. At the suggestion of the external auditor, an upper manager of the credit union obtained sworn valuations and discovered that the mortgaged properties were worth only \$4 million rather than \$14.1 million. He justified the frauds on the basis that they were necessary for the project to succeed and save the company (*Rationalisation*).

Case 12, involved a \$1,250,000 fraud committed by a 47-year old grandmother accountant who had been dismissed by her previous employer for committing fraud. Acting out of greed (Motivated crime-prone person) she exploited weak internal controls. A lack of segregation of duties allowed her to be both in charge of personnel records as well as responsible for paying salaries (Opportunity). She defrauded her employer of the stated amount via fraudulent transactions. Using a variety of methods to cover up her frauds, she misappropriated cheques issued by her employer who was a foreign government and had them paid into her own account. She did this by getting subordinates to sign "pay cash" cheques or by forging cheques to alter the amount stated to a larger amount and have the difference paid into her account. She also misappropriated bills (meant to pay employees' salaries) upon their maturity by adding "or pay cash". She believed she had a very good chance of getting away with her frauds (Rationalisation). With a salary of only \$27,000 and employment of 10 odd years the offender managed to own four houses in her name, buy another two for family members, pay school fees for grandchildren

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and to hold cash deposits of \$1 million. It is unknown why a number of her assistants or even upper management co-operated with her and banked the cheques or even authorised the alterations. No charges were laid against those people. She was found out by the bank when she tried to have a bill paid into her own account which had already been paid. When interviewed by the police, she appeared naive and used the language barrier as an excuse not to communicate.

Case 13 was a fraud of \$1,700,000. In this case, a megalomaniac 42-year old male solicitor with low self-control (*Crime-prone person*) needed money to finance his excessive property investments (*Motive*). He had access to clients' accounts and was in charge of making mortgage payments while his wife was in charge of the disbursements of interest payments (*Opportunity*). Acting out of greed, he misled and manipulated the partner in charge of the law firm he worked at to use the term deposits for his own benefit. He had control over bank accounts and informed the bank that any transactions (mortgage payments) that were meant to go through that account should go to his personal account. To cover up his fraudulent activities, he would transfer money from one of his accounts to replace the stolen money from the clients' accounts. He exploited loose controls and took letters supposedly to deliver personally to clients, but they never reached their destination. He believed he would be able to pay back the money one day and that he would not be found out (*Rationalisation*). An aged client whose trust account he had misappropriated died and the beneficiary of the estate asked for the money in the account.

Case 14 was a fraud of \$1,063,900. This case involved a 55-year old married male

bank manager with low self-control (Crime-prone person) who was at liberty to redeem clients' bills upon maturity (Opportunity). Acting out of greed (Motive) and believing he could avoid being found out (Rationalisation), he used three commercial bills owned by a friend and his associate for personal use. He paid off the bills and bought property. To cover up the frauds he transferred money from one of his accounts to replace the stolen money. The friend who had invested the money was receiving the interest earned from the bills for nearly a year, but became suspicious when he decided he wanted to redeem one of the investments and another bank manager could not determine its existence.

Case 15 involved a fraud of \$1,141,104. A 37-year old professional comman, practising as finance consultant (*Crime-prone motivated person*). He believed he was justified in defrauding people because that was his job (*Rationalisation*). He used 11 aliases to open 16 separate bank accounts in three banks and utilised the serviced offices and business name of some reputable accounting practices around Melbourne (he created the *Opportunity*) in order to commit frauds as follows:

- He scrutinised share registers to find personal details of large shareholders, assumed their identity and, using a series of false documents, he changed address and amended the share register accordingly.
- ii. Following the alteration to the share register, he informed the share registry that due to the change in address the original share certificate was lost and a new one was issued to him.
- iii. Upon receipt of the duplicate share script, the shares were sold to innocent

shareholders and he managed to obtain \$432,000 which he banked in his personal account.

He was found out as a result of one company's practice of confirming a "change of address" with the shareholders. In addition to this fraud, he was charged with involvement in a fraud in 1990. The details of that fraud are as follows: He used an alias to negotiate the purchase of two life insurance companies supposedly on behalf of a U.S. investor. He deceived the bank into drawing cheques in favour of creditors of the company that sold one of the life insurance companies and had part of the money paid into various accounts he had opened under a number of false names. He used \$65 million of the \$150 million funds held by the bank on behalf of one of the insurance companies to deceive the parent company to settle the deal on the pretext that the money was from the bank of New York. He then instructed the bank to draw bank cheques of nearly \$10 million payable to a particular company which he owned. He cashed those cheques and the same month he received the money he distributed it to various persons. He seemed to have been shifting from state to state and defrauding innocent people.

Case 16 was a fraud of \$17,173. In this case a 38-year old male director and principal shareholder indifferent to the consequences of his behaviour, had a financial problem but continued living beyond his means (*Crime-prone motivated person*). He used cheques from an account that had been closed by the bank six months earlier to pay his daughter's school and tuition fees, pay the mechanic, and go on holidays. His justification was that he was "doing it for the family" and since

he was able to issue cheques to people who did not question him and his integrity (Opportunity), he was "entitled to whatever he could get" (Rationalisation). He was found out when one of the victims alerted the police.

Case 17 was a \$417,500 fraud committed by a director and principal shareholder. A 35-year old single male career conman (Crime-prone motivated person) who had no need to justify committing fraud to himself (i.e., no need for rationalisation), set up a corporate hospitality for sporting events to victimise gullible individuals (Opportunity) by selling sporting entertainment packages to companies in Sydney and Melbourne. There were four packages organised over one month period which he sold to a number of companies. He was found out when staff of the relevant companies arrived for the event and as there were no such tickets they complained. The offender left the country before the events occurred. He was brought back and convicted.

Case 18 involved \$340,000. This fraud was committed by middle management. The company's fleet cars were to be sold at public auction or traded-in against the purchase of a new vehicle (*Opportunity*). The transport office would obtain three quotations from various dealers and submit a requisition for a new vehicle. In collusion and acting out of greed, three single male employees in their 30's and of low self-control (*Crime-prone persons*) authorised documentation, drew and signed cheques, advertised and sold the trade-ins to family members or innocent purchasers. New vehicles were purchased for family members but paid for by the company. Their justification was that "nobody would get hurt" by the frauds (*Rationalisation*).

They were found out by the internal auditor.

Case 19 was for \$65,000. In this case, a single 40-year old male bank manager of low self-control (Crime-prone person) acted out of greed and exploited weak internal controls (Opportunity) to lend two individuals a total of \$900,000. The amount was in excess of the amount of money he was authorised to lend. He did not verify that the valuations the two borrowers provided were not false. He was paid a secret commission of \$65,000. His justification was that he was "not harming any people but the bank" (Rationalisation). He was found out when another bank who knew the low credit rating of the two offenders informed the bank manager's superiors. No case could be brought against the borrowers due to limited evidence, even though once that case was completed another banking institution was conned into the same thing by the two borrowers and once again the bank manager was the one charged for the secret commission.

Case 20 involved a fraud of \$108,580,000 which was committed by a bank manager. He was 38-year old single male with low self-control (Crime-prone person) who was conned by two individuals who had conned another bank, whose company (X Group) wanted to build a retirement village. The offender circumvented the bank's weak internal controls (Opportunity) over a three-year period and continued refinancing the loans to the two individuals even though he knew it was a bad loan and that he had exceeded his authority. His justification was that "it was for a good purpose". (Rationalisation). It was later determined that he was the designated manager of X Group. When the bank promoted the offender because it felt he was

doing very well, he continued to provide assistance to the person who took his position and even reconciled his old accounts; he was always very helpful and never took holidays. He was found out when a colleague suspected the fraud.

Case 21 was for \$4,500,000. A 57-year old married male chief executive officer of a multinational company had weak self-control (*Crime-prone person*). He had been with the company for over 30 years and nobody dared question him. Acting out of greed, and believing he was entitled to the money (*Rationalisation*), he renovated his house using company frauds. Exploiting the company's weak internal controls (*Opportunity*), he instructed one of the managers to charge \$4.5 million of renovations to various company stores. However, he was not aware that the Chief Accountant also renovated his house and some of the expenses were hidden into his expenses. The disgruntled accountant as well as one of the builders who realised what was going on informed the police. The offender's justification was that the company owed him the luxury he sought to have (*Rationalisation*).

Case 22 involved a fraud of \$3,700,000. A 46-year old male general manager with low self-control (*Crime-prone person*) colluded with the marketing manager (*Opportunity*) and approved invoices twice to a particular supplier who maintained two sets of books for tax purposes. The general manager was acting out of greed and justified the fraud as "a means to an end" (*Rationalisation*). One set was paid into the computerised accounting system of the supplier and the other into his personal manual system. The marketing manager was only doing it to keep her job and the general manager was receiving secret commissions.

Case 23 was for a \$60,000,000 fraud committed by a Trust manager. He was a 37-year old male with low self-control (*Crime-prone person*) who was approached by two overseas promotional managers to invest money overseas. He agreed to collude with them to defraud the company (*Opportunity*). His justification was that "the potential reward was worth it" (*Rationalisation*). The trust sent some money and a high return was received. However, they did not know that the interest received was from the money sent, so they kept on sending more funds and continued to receive interest that was really part of their original investment principal instead of from earnings.

Case 24 involved a \$500,000 fraud committed by a general manager of an insurance company. In the late 1980's in Australia if someone set up an agency for insurance policies he would receive 100% of the total insurance for the first year back as a commission as soon as the first monthly premium was received by the insurance company (*Opportunity*). Exploiting this practice, a 40-year old male with low self-control, who had a serious financial problem (*Crime-prone person*) set up an agency and got a list of his friends to draw the first premium cheque for an insurance policy he was supposed to take up. As soon as the insurance company received the first payment they returned it as 100% commission back to the three agents. 80% was to be returned to the policy holder as a loan and the 20% was for administration costs. The agents were to obtain as security a list of assets owned by the policy holders in case they ceased paying the insurance policy. The offender refunded the money to the policy holders and received the total commission from which he built his house.

His justification was that he was "not doing anybody any harm" (Rationalisations).

In two months all policies ceased and when the insurance company tried to recover the insured assets, it realised they did not exist. The insurance company auditors had not checked the internal controls in this case, and nobody in the company ever checked the securities held.

# 4.0 FINDINGS

# 4.1 A comparison of fraud indicators present in the ROP model and in Loebbecke et al. (1989)

Loebbecke et al.'s (1989) paper does not provide details of the definition of "defalcation" and "management fraud" used. The definitions used, however, have been provided to the author (personal contact). Defalcation is employee fraud, embezzlement, and larceny. Management fraud is deliberate fraud committed by management that injures investors and creditors through materially misleading financial statements. The class of perpetrators is management.

It should also be noted that misappropriation of trust accounts by lawyers and accountants was classified as a defalcation not a management fraud,

Table 3: Classification of the Fifty Cases into Irregularities by Deceptive Action

Type of Irregularity	All cases		Defalcations		Management Fraud	
<u></u>	No	% of 50	No	% of 30	No	% of 20
Assets overvalued or incorrectly valued	2	4	2	7		
Transactions/events not recorded	1	2			1	5
Expenses recorded incorrectly	5	10	1	3	4	20
Liabilities understated	1	2			1	5
Misappropriation of funds	20	40	13	43	7	35
Theft of cash receipts	26	52	7	23	_ 19	95
Falsified and altered records	33	66	13	43	20	100
Totals	88		36		52	
Average per occurrence	1.8		1.2		2.6	

Table 3 shows that, using the same classification as Loebbecke et al. (1989), in order to commit the irregularity a perpetrator carried out more than one deceptive action<sup>5</sup>. This explains why N = 88 and not 50. For all perpetrators, the average number of deceptive acts for the 50 cases reviewed is 1.8 Loebbecke et al. also reported an average of 1.8 acts. The average for defalcations and management fraud is 1.2 and 2.6 respectively compared to Loebbecke et al. conesponding figures of 1.4 and 2.0. Again, in agreement with Loebbecke's findings, largely the same deceptive actions underlined both defalcation and management fraud. However, "assets overvalued or

<sup>5</sup> Unlike Loebbecke et al.'s study, "revenue or other credits recognised improperly", "specious accounting judgement made", or "transactions in the wrong period" and "disclosures omitted or misleading" were not contained in the irregularities included in the sample of MFG cases.

incorrectly valued" only featured in defalcations, while "transactions/events not recorded only featured in management fraud".

The fact that the findings obtained in the present study are very similar to those reported by Loebbecke et al. is interesting given that their study was based on a survey of auditors whereas the findings of the present study have been obtained from prosecution briefs of major fraud cases.

The implications of this observation for auditors are that: (a) the modus operandi of serious fraud offenders is very much the same whether they operate in Australia or United States and (b) upon discovering evidence of a deceptive action an auditor should assume that it is not an isolated event underpinning an irregularity (see Table 4).

Table 4 provides information about the incidence of different types of deceptive action by type of irregularity.

Table 4: Classification of *Number of Charges* for the Fifty MFG Cases into Irregularities Committed by Deceptive Action

Type of Irregularity	All cases		Defalcations		Management Fraud	
	No	% of 50	No	% of 30	No	% of 20
Assets overvalued or incorrectly valued	12	24.0	12	40.0		_
Transactions/events not recorded	1	2.0			l	5.0
Expenses recorded incorrectly	26	52.0	5	16.7	21	105.0
Liabilities understated	2	4.0			2	10.0
Misappropriation of funds	330	660.0	220	733.3	110	550.0
Theft of cash receipts	603	1206.0	112	373.3	491	2455.0
Falsified and altered records	568	1136.0	68	226.7	500	2500.0
Totals :	1542	3084.0	417	1390.0	1125	5625,0
Average per occurrence		30.8		13.9		56,3

With few exceptions the fraud offenders studied are prolific serial offenders. A review of Table 4 reveals that the offenders averaged 30.8 irregularities each. More specifically, the average number of charges for defalcations was 13.9 and 56.3 for management fraud. However, these averages are inflated by the presence of one management fraud offender who was charged with 340 counts of falsifying and altering records and with as many theft offences. Similarly, another offender was charged with 91 counts of misappropriating funds. Excluding those two offenders the average number of irregularities per occurrence of major fraud is 17.7. The implication of this finding is that upon discovering evidence for an irregularity an auditor should assume that many more have also been perpetrated.



# 4.2 Fraud indicators

# 4.2.1 Testing the applicability of the ROP model

It needs to be acknowledged that using the MFG cases to test the applicability of the ROP model provides a useful but limited test of the models. The reason for this is that the MFG cases involved fraud convictions; in otherwords, they involved a person with a crime-prone personality who exploited opportunities to perpetrate fraud. This is a limitation of the methodology used.

Table 5 provides support for the ROP model. Examination of the *Opportunity* indicators shows the importance of a number of both "situational factors" and "company characteristics" predicted by the model as facilitating the commission of fraud. Regarding the situational factors, the great majority (80%) of the offenders perceived a low risk of being apprehended. This finding provides empirical support for deterrence theory (Walker, 1980) according to which a potential offender is discouraged through fear of consequences from committing a particular crime if he/she perceives a high risk of being apprehended and expects a severe enough sentence upon conviction. It should be noted here that, on the basis of their statements during the police interviews as well as on the basis of lengthy discussions the present author had with MFG investigators, the majority of the offenders studied perceived a low risk of being apprehended and the issue of the likely penalty if convicted did not seem to have concerned them.

In support of Clarke (1980) and Cohen and Felson (1979), Table 5 also shows that the absence of capable guardians is another significant situational factor. A closer look at the cases concerned, revealed that as long as the Law Institute of Victoria failed to audit regularly solicitors' trust accounts, it allowed enough solicitors (in ten cases) to perceive a low risk of being found out and to defraud their clients by stealing from their trust accounts. Similarly, so long as there were no regional managers to inspect the work of bank managers, it made it easier for five of them to defraud their own bank whether by colluding with outsiders (see below) or to steal money from their clients. Of course, both solicitors and bank managers, like accountants in private practice, enjoy the trust of their clients and the existence of gullible people is another situational factor that made fraud possible in 34% of the cases.

In addition to situational factors, the *opportunity* component of the ROP model includes "company characteristics". Table 5 shows that the ROP model correctly predicted the importance of lack of adequate control procedures (90%) that prevent fraud. This supports the KPMG (1996, 1995a, 1995b, 1993a, 1993b) fraud surveys which found that poor internal control was the one factor that underpinned most frauds both in Australia and in 17 other countries. In addition to a lack of adequate control procedures, the ROP model correctly predicted the importance of non-control factors (64%) that provide opportunities for fraud to be committed. Such factors include, for example, inability to judge the quality of performance; lack of access to information; ignorance, apathy or incapacity, and lack of audit trail.

Further support for the ROP model is the finding that 36% of the offenders belonged to

a criminogenic occupational/corporate culture which appears to condone solicitors or accountants who "borrow" money from their clients' trust accounts or bank managers who authorise unsecured loans or loans far in excess of the amounts they are authorised to approve for clients they know well and trust. Weak internal controls may well mean that collusion between a number of company employees is possible. There was a total of six (12%) such cases. Three separate bank managers conspired with outsiders: two approved loans for "trusted" clients on the basis of information they knew to be untrue, and one approved excessive loans to a company in return for secret commissions. In another case, an employee of a disposal company paid secret commissions to the operator of a rubbish tip for lower rates per truck load. There were two cases of collusion within a company: three employees in a ministry conspired to steal cars that should have been traded in when new ones were purchased, and the manager of a credit corporation who sent all printing work to the same company and in return was being paid secret commissions.

Regarding the *person* component of the ROP model, Table 5 provides support for both its constituent parts "motive" and "crime-prone personality". About the latter, it can be seen that while 30% were professional, unscrupulous deceivers, the motive in 40% of the cases was a financial problem. There was only one case involving the restoration of social identity and one in order to obtain personal justice respectively. In further support of the ROP model, Table 5 also shows that the most frequent characteristics of a crime-prone person who has perpetrated fraud are a propensity for lying (92%) and weak self-control (62%), egocentricity (34%), someone having a strong sense they are entitled to whatever money they can get by deceiving others (28%) and low self-

esteem (20%). As would be predicted using the ROP model, the cases studied involved a variety of *motives*. The two main motives were; being a professional fraudster (30%) and sheer greed in the case of opportunistic offenders (24%).

A category of predator, professional commen (N=15) had no moral scruples and therefore felt no guilt for committing the crime but justified committing the offence using a variety of rationalisations (in Cressey's, 1986, term neutralising verbalisations). The most frequently used rationalisations were: "I can make better use of the money than the company", "deceiving is what I do for a living"/ "I'm entitled to whatever money I can get" (30%); "the end justifies the means" and so forth (16%); "nobody will get hurt" and so forth (12%) and "I am only borrowing the money and will pay it back" (12%).

The study's results regarding rationalisations provide support for one of the ROP model's basic premises, namely that its three components (R, O, P) are necessary for fraud to occur. The same results also cast serious doubt on the Loebbecke et al. model since, as has already been pointed out, one of its components – attitudes - comprises a set of company characteristics that come under the opportunity component of ROP. In other words, Loebbecke et al.'s model has nothing to say about rationalisations. This major omission may well be due to the fact that they only used data from audit partners and had no data on fraud offenders. Table 5 also shows that the following indicators had a frequency of over 50%: propensity for lying (92%), lack of adequate control procedures that prevent fraud (90%); perception of low risk of being apprehended (80%); non-control factors providing opportunity for fraud to be committed (64%)

and weak self-control (62%).

Table 5: Indicators and Frequency of Occurrence by the ROP molel's three Components

Indicators	Number of cases with component N = 50	% of cases with components in the MFG cases	
Opportunities*			
Situational Factors*			
Perception of low risk of being apprehended	40	80	
Absence of capable guardians	18	36	
Existence of gullible people willing to trust strangers with their money	17	34 .,	
Perception of lenient sentence	4	8	
Collusion opportunities	2	4	
Company Characteristics*			
Lack of adequate control procedures that prevent fraud	45	90	
Non-control factors providing opportunities for fraud to be committed	32	64	
Criminogenic corporate culture	18	36	
Collusion opportunities	4	8	
Inadequate screening of applicants for management positions	3	6	
Rationalisations			
Deceiving is what I do for a living; I am entitled to whatever money I can get / I can make better use of the money than the company	15	30	
		В	

The end justifies the means/ It's for a good purpose/It's to: save the company/pay the staff/I'm doing it for the family	8	16
Nobody will get hurt/I am not really hurting anybody/the bank won't miss the money	6	12 2
I am only borrowing the money and will pay it back	6	12
I just need the money, there's no other way	. 4	8
It's OK to borrow from client's accounts because he/she does not really need the money	ν <sup>α</sup> <b>3</b>	6
I can get away with it	3 ,	6
The potential reward is worth it	1	2
The company owes me	. 1	2
I've deceived no one; these are only technical deficiencies	1	2
I, too, have a right to enjoy my life	1	2
Others do it too	. 1	2
Person		
Motive		
Predator/career serial fraud offender/unscrupulous deceiver	15	30 O
Opportunist acting out of greed in professional occupation	12	24
Serial fraud as response to unshareable financial pressure on the family	5	10
Serial fraud to solve a financial problem of a personal nature	4	8
Serial fraud to assist loved ones with a financial problem	4	8
Serial fraud due to a vice	3	6
Isolated fraud as response to unshareable financial pressure on one's self	2	4

Isolated fraud as response to unsharcable financial pressure on the family	<b>2</b>	4
Isolated fraud to restore social identity	1. 11. 11. 11.	2
Fraud under an assumed professional identity	1,1,,	2
Fraud as personal justice	1	2
Crime-prone personality*		
Propensity for lying	∜ 46	92
Weak superego/self-control	1 - 2 31	62
Egocentricity	17	34
A strong sense of entitlement to whatever one can get by deceiving others	14 14 14 14 14 14 14 14 14 14 14 14 14 1	28
Low self-esteem	10	20
Oversensitivity to monetary gain		18
Being indifferent to the consequences of one's behaviour	7	, 14
Lack of anxiety, remorse and empathy	6	12
Impulsiveness	5	10
Authoritarian	5	10
Inability to postpone gratification	1	2
Not being attached to other people	1	2

<sup>\*</sup> It is possible for an indicator to be present in more than one category, e.g., egocentric and authoritarian.

Table 6: Frequency with which one, two or all three of the Components in the ROP model were Present in the MFG Cases when Fraud Indicators were Present and Relevant

Where indicators were present and relevant	No of cases	Rationalisations	Opportunity	Person
All three components present Totals	50	50	183	202
Percentage of cases Average No. of indicators	100%	1.0	3.7	4.0
Two components present Totals				·. <b>-</b>
Percentage of cases Average No. of indicators				
One component present Totals Percentage of cases Average No. of indicators		6 (g)	•	•
No components present Totals				
Total of all material management fraud cases	50	50	183	202
Average No. of indicators		1.0	3.7	4.0

In support of the ROP model, table 6 shows that 100% of the MFG cases had all three components of the ROP model's components present when fraud indicators were present and relevant. Examination of Table 6 also shows that the average number of fraud indicators when all three ROP components were present was 1.0 for rationalisations, 3.7 for opportunity and 4.0 for person.

The MFG study shows the importance of all three components of the ROP model in understanding the actiology of fraud and demonstrates the model's applicability to the MFG cases, as had been predicted. Regarding crime opportunity, as Gottfredson and Hirschi (1990:12-13) would have predicted, it is particularly important where: the offence produces immediate rather than delayed gratification; committing the crime is easy in terms of the mental and physical effort required; and, finally, in situations where the perceived risk of being found out is minimal. In other words, in most cases, situational circumstances (e.g., strong internal controls) could mute or counteract the effects of a person's low self-control. However, the findings in Tables 5 and 6 emphasise that it is the interaction of both self-control and crime opportunity that largely explains the genesis of fraud. Of the two factors, however, and contrary to what Gottfredson and Hirschi (1990) and Grasmick et al. (1993) would have predicted, a crime-prone person with a motive and the necessary rationalisations is a better predictor of fraud than opportunity for fraud.

Finally, careful interrogation of the MFG data indicates that whether someone in a position of financial trust will commit fraud appears to vary to some extent independently of self-control or opportunity. The motivation for crime appears to influence the extent to which people perceive situations as constituting criminal opportunity as well as the extent to which low self-control produces crimes, given the opportunity.

Without ignoring the limitations of the MFG cases studied, the policy implication of the findings in Tables 5 and 6 is that the ROP model can be used by auditors to

(1)

enhance their fraud-detection ability by alerting them to particular characteristics of individuals and companies that are associated with fraud. The successful test of the ROP model highlights the importance of the auditor utilising information contained in all three of the model's components when planning the audit.

When considering the applicability of Loebbecke et al's model to the MFG cases (see Table 7) and comparing it with the results in Tables 5 and 6, it should be noted that, as already pointed out, their model fails to account for offenders' rationalisations since their attitude component refers to a list of company characteristics that is part of opportunity in the ROP model.

# 4.2.2 Testing the applicability of the Loebbecke et al. model

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In order to test the applicability of the Loebbecke et al. model to the MFG cases, fraud indicators were categorised as: (1) conditions; (2) motives; and (3) attitudes to determine if the Loebbecke et al. model holds true in the 50 major fraud cases. Loebbecke et al. assert that for material management fraud to occur, all three components have to exist. If any one of the requirements is absent, then it would be deemed highly unlikely that a material irregularity has taken place or is likely to do so (1989:4).

Loebbecke et al.'s fraud-risk assessment model was tested as follows. First, the fraud indicators present in the major fraud cases were checked against Loebbecke's reported indicators (see Table 7 below for details). Second, an assessment was made of the degree to which all three components of Loebbecke et al.'s model (i.e.,

conditions, motivations and attitudes) were present in the cases examined (see Table 8 below).

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Table 7: Indicators and their Frequency of Occurrence by Loebbecke et al.'s three Components

Indicators	Number of cases with component	% of cases with component in the 50 cases
Conditions:		
Weak internal control	45	90
Difficult to audit transactions	36	72
Conflict of interest	35	70
Dominated decisions	32	64
Major transactions	31	62
Inexperienced management	24	48
Related party	18	36
Significant judgements	10	20
Decentralised organisation	5	10
Assets subject to misappropriation	4	8
High management turnover	., 3	6
New client	1	2
Rapid growth	1	. 2
Motivation:	.,	·
Industry decline	11	22
Inadequate profits	9	18
Significant contractual commitments	7 .	14
Emphasis on earnings projections	4	8

Attitude:		
Dishonest management	37	7,4
Lics or evasiveness	21	42
Aggressive attitude toward financial reporting	14	28
Personality anomalies	3	6
Prior year irregularities	2	4
Poor reputation	2	4
Emphasis on earnings projections	2	4

Table 7 shows that 6 out of the 24 indicators listed (weak internal controls, dishonest management, difficult to audit transactions, conflict of interest, dominated decisions, and major transactions) had a frequency of greater than 50%. Comparing and contrasting the frequencies in Table 7 with Loebbecke et al.'s results (their Table 9, pp.15-19), it emerges that:

- i. In support of Loebbecke et al., the following red flags occurred with high frequency in both studies: dominated decisions; weak internal controls; conflict of interest, and difficult to audit transactions.
- In support of Loebbecke et al., high management turnover occurred with low frequency in both studies.
- ii. The following three red flags occurred with high frequency in Loebbecke et al. but did so with very low frequency in the present study: the company is in a period of rapid growth; significant contractual agreements, and industry decline. It could be argued, of course, that, excluding "industry decline", the other two red flags would not be relevant in cases where accountants and

solicitors steal from trust funds.

Regarding the extent to which all three of Loebbecke et al.'s components were present in the cases studied (see Table 8), it was found that, contrary to what the Loebbecke et al.'s model predicts, in only 36% of the cases reviewed were all three components present; in other words, in the majority of the cases (64%) fraud occurred despite the fact that all three components were not present. In 52% of the cases, two of the indicators were present. In most cases, the presence of any two components is sufficient for management fraud and defalcations to occur. It can be seen that of the three components depicted, the average number of conditions-related indicators is higher than for motivations and attitude ones, irrespective of the number of components present. This finding emphasises the importance of the opportunity component of the ROP model in the actiology of fraud and has implications for fraud prevention.

Table 8: Frequency with which one, two or all three of the Components in Loebbecke et al.'s Model were Present in the MFG Cases when Fraud Indicators were Present and Relevant.

Where indicators were present and relevant	No. of cases	Conditions	Motivations	Attitude
All three components present Totals	18 (36%)	94	27	30
Percentage of cases Average No. of indicators	. (5074)	5.2	1.5	1.7
Two components present // Totals	26 (52%)	124	4	47
Percentage of cases Average No. of indicators	(3270)	4,8	.2	1.8
One component present Totals	6	27	-	4
Percentage of cases Average No. of indicators	(12%)	4.5	-	.7
No components present Total cases	0	0	0	0
Total of all material management fraud cases	50	245	31	81
Average No. of indicators		4.9	.6	1.6

An examination of Table 8 also shows that 88% of the cases looked at had two or three indicators present, i.e., conditions, motives and attitudes or a combination of two. Therefore, in their efforts to assess whether there is fraud, auditors can utilise both information about profiles of fraud offenders as well as about the type and frequency of fraud indicators present since, as Loebbecke et al. (1989) found that as the number of indicators increased the chance of fraud increased. As far as

Loebbecke et al.'s assessment model of irregularities is concerned, the findings of the Major Fraud Group study contradict one of its basic premises, that all three components need to be present for an irregularity to occur. In 64% of the cases only one or two of the indicators were present.

#### 5.0 CHARACTERISTICS OF MAJOR FRAUD OFFENDERS

# 5.1 A profile of major fraud offenders

The majority of offenders studied shared some characteristics one would normally have expected them to have by virtue of the fact that they needed to be in occupational positions where they could, alone or with accomplices, effect major fraud. To hold such positions, they almost invariably had to be professionals with tertiary qualifications and over 30 years of age. As expected, the great majority were male (92%), married/defacto (63%) and aged 31-45 inclusive (65%). As far as their occupation is concerned, 24% were company directors, 20% were solicitors, accountants made up 18%, office/bank managers 18%, finance managers 8%, bookkeepers 4%, sharetraders 4%, brokers 2% and other 2%. These findings support similar results reported by Wheeler et al. (1988).

Rather interestingly, it was also found that most of them had acted alone in perpetrating their fraudulent acts against two or more people they knew well and only committed deception offences, in other words, they were specialists and not versatile.

<sup>6</sup> This is the case of the assumed identity person who practiced as a solicitor.

These general characteristics comprise the first of two components of the profile constructed. The second is the taxonomy of offenders and circumstances (i.e., a set of typologies, categories and sub-categories) discussed in section 5.3 below. The two components are meant to be used in tandem by auditors.

The majority (91%) of the offenders examined were convicted under state legislation (Crimes Act, 1958 (Vic)), with 44% convicted of 10 fraud charges or less while a significant proportion (39%) were convicted of 20 or more charges. Approximately half (51%) of the cases involved one or two victims, but in 26% of the cases the offender defrauded 10 or more separate victims. The presence of one or two victims in a prosecution does not, of course, mean the offender only committed one or two frauds, because a single victim may have been repeatedly defrauded.

As far as the treatment of the perpetrators by the courts is concerned, most offenders (73%) pleaded guilty, were granted bail (85%), all were legally represented at the trial and most (89%) were represented by a private lawyer. Slightly over half (52%) of the cases were tried by a higher court, namely the county or supreme court. Overall, the MFG had a high conviction rate (84%). As far as sentencing by the courts is concerned, the majority of the offenders studied were imprisoned (68%), 14% were given a good behaviour bond, 11% a suspended term of imprisonment, 4% a fine and, finally, 3% were given a community-based order. Of those who were

sent to prison, the majority were sentenced to five years or less?

Cross-tabulations of the main variables for which data were collected in the MFG study yielded the following findings: accountants were more likely to be sentenced to a longer (more than five years) term of imprisonment than other occupational categories (Chi-square = 6.82105, p = 0.009)\*. The most likely explanation for that is to be found in the fact that accountants were convicted of more fraud charges and not because they defrauded a larger amount of money. Because an offender was convicted of more than one charge against the same victim, it is better to talk about victimisation per fraud. It was found to be one in over one-third (36%) of the cases, two victimisations (15%), 3-10 victimisations (23%) and over 10 victimisations in 26% of the frauds. One rather prolific offender was convicted of 98 charges. There was some limited evidence that those with a relatively "small" number of victimisations per fraud (i.e., < 10 victims) were more likely to plead not guilty.

In support of U.S. research, most (70%) of the offenders did not have prior criminal convictions while about one-third (30%) were also charged with a non-fraud (mainly theft) offence. Company directors and accountants were more likely (though not statistically significant) to have a prior criminal record. There was some indication that those who had a criminal record were more likely to perpetrate frauds netting a

<sup>7</sup> The Chi-square test of association when dealing with frequencies was used to test the statistical significance of the relationship between pairs of characteristics pertaining to the offence, the offender, the victim, and the imposition of sentences by the courts. In all the reported results the significance level (p) is with one degree of freedom (1df) and for a two-tailed test. In some instances, small numbers in the cells of the frequency tables has meant that, even though a relationship between two variables was significant at least at p = 0.05, the result was dismissed in order to comply with the requirements of the chi-square test (e.g., having less than 20% of the cells in a table with frequencies of less than 5). Such cases are indicated

"larger" amount of money (more than \$500,000) than were first offenders and that first offenders generally acted more out of greed and were more likely to plead guilty.

Of the professional groups involved, accountants and solicitors (unlike bank managers or company directors) were the most prolific in terms of the number of deception offences they were charged with (Chi-square = 3.65350, p = 0.05). In contrast to bank managers and company directors, the rest of the occupational categories (e.g., accountants, solicitors, finance managers) were significantly more likely to perpetrate their fraud offences without accomplices (Chi-square = 11.72959, p = 0.0006)\*. As a rule, accountants and company directors were significantly more likely (Chi-square = 12.82184, p = 0.0003) than other occupational categories to have "specialised" in such deception offences as obtaining property or financial advantage by deception.

Regarding the relationship with the victim, in 25% of the cases the victim was the employer, a client/customer (61%), a fellow company director (6%) or a stranger (6%), but only 2% were employees of the offender.

Most of the offenders (70%) perpetrated the fraud(s) acting alone and of those that had accomplices, the tendency was to have one only accomplice.

Unlike conventional offenders, most (87%) of the offenders studied were not

versatile, as Gottfredson and Hirschi (1990) would have predicted, but specialists, i.e., they perpetrated only particular deception offences, hardly changing their modus operandi. The specialist fraudsters (i.e., those committing only deception offences) were significantly more likely than their versatile counterparts to have a criminal record (Chi-square = 5.45185, p = 0.0195)\*, and were significantly more likely to be imprisoned (Chi-square = 3.47222, p = 0.0624).

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The fraud came to be investigated because a victim suspected the offender (40%), or because of the work of an auditor (13%) or as a result of a bank (14%) or a colleague/fellow co-director 11%, a client (11%) or the Law Institute of Victoria (9%) or, finally, the police (2%) becoming suspicious/acting on information received. While half of the solicitors involved were suspected by the Law Institute of Victoria, accountants and company directors were significantly more likely than all the other occupational categories to be suspected of having perpetrated fraud by one of their victims (Chi-square = 7.07087, p = 0.007).

These inter-relationships indicates a need to desegregate major fraud offenders. The findings suggest that, at a general level, such offenders differ from common offenders in a number of significant ways, such as in being employed, specialists and first offenders. However, the way they go about committing their crimes, how many offences of the same kind they commit, whether they act alone, whether they plead guilty and what sentence they receive, appear to be related. In combination with the taxonomy of fraud offenders described below, these findings go some way towards painting the picture of the major fraud offender. In this sense the research can be said

to have succeeded in profiling such offenders. This knowledge could be used to alert auditors to potential management fraud risks and their likely modus operandi against the backdrop of fraud-prone companies and areas within companies detailed in the next chapter.

### 5.2 Criminal typologies

The criminological literature contains a number of criminal typologies. The main concern has been with typologies of male juvenile delinquents (see Gibbons, 1975) and prison inmates (see Schrag, 1961). Typologies of white-collar offenders has been a neglected topic in criminology. In considering the typologies yielded by the MFG study it should be remembered that they are actiological ones, i.e., they identify the types of persons in positions of financial trust who perpetrated fraud and the circumstances under which fraud is done.

# 5.3 A taxonomy/typologies of major fraud cases

Close examination of the 50 cases and the interviews with the detectives yielded the following taxonomy of major fraud cases described next. The taxonomy (see Table 9) shows that if a profile of fraud offenders is to be useful in fraud detection, it needs to accommodate a broad range of categories and, in some cases, sub-categories of cases, which result from the combination of particular types of offenders committing different types of fraud under different circumstances. The fact is that many professionals of the age group and with the types of pressures mentioned below do

<sup>8</sup> According to Gibbons (1975), the main criteria a typology must satisfy in order to be useful are: clarity and objectivity; mutual exclusiveness; and comprehensiveness and parsimony (p.143).

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not resort to fraud. Consequently, if a profile of fraud offenders does not include information on particular combinations of different types of professionals, committing different types of irregularities under different circumstances, then it will not be of much use to an auditor. In other words, the taxonomy of types of fraud offenders and circumstances reported below can be thought of as enriching the sketch broad outline of a person who is likely to be a fraud risk, and is therefore likely to be of use to an auditor.

The predator/professional fraud offender. For example, an accountant with a record for committing fraud against a previous employer also defrauds his/her latest employer of a much larger amount of money. Another type of predator gets a position in a company in order to commit the fraud. In other words, the offender has the opportunity, is crime-prone due to the absence of a strong self-control as evidenced by his/her previous criminal activity of a similar nature, and justifies the fraudulent activity in terms of "I can make better use of the money than the company". Another example is where a career fraud offender (with a record for identifying, selecting major shareholders, assuming their identity, and selling their shares) sets up a company to defraud a bank. Here we have a crime-prone individual who creates the opportunity for fraud, commits deception offences and justifies the crime as "This is what I do for a living". Another example is where one individual who, after defrauding a company in his own country, flew to Australia to repeat his scheme here. Again, we have a predator who sets up a company purporting to offer a service for a fee, collects a lot of money from clients and then simply disappears and, like serial killers, sees nothing morally wrong with what he does. Eight cases were

perpetrated by predator, professional offenders who, like some of the other categories, stop offending when caught.

An opportunist professional with low self - control and without a previous record for deception who is in a position of trust. The second largest category identified is where a person with a predisposition to commit fraud as a result of having low self-control, perceives an opportunity to acquire additional money. Acting out of greed, he/she exploits it alone or with one or more accomplices, in the belief they will get away with it. For example, a bank manager steals a friend's commercial bills and converts them to money. The opportunity lies in the fact that people trust him with their money, the crime-proneness stems from a lack of a strong conscience and, finally, the fraudulent activity is rationalised in terms of "It's easy money to pay off bills and buy property" and avoid being found out. Another example is where, motivated by greed, an insurance company manager in collusion with two outsiders exploits weak internal controls to commit a long series of frauds against the company. A weak conscience predisposes him to exploit the opportunity provided by the weak internal controls and the frauds are justified in terms of "If I can make money and get away with it, why not?". In another case (motivated by greed since his financial position is good), a solicitor induces a client to invest in a company. The client is not aware the company is owned by the solicitor who then proceeds to misappropriate the investment. The fraud is rationalised as "the client does not really need the money". A total of 12 cases belong to this category and involved first-offenders whose low self-control and greed led them to exploit opportunities for fraud.

Fraud under an assumed professional identity. Irrespective of whether living a fantasy or not, an individual presents himself as qualified to practice law and enjoys the status and salary that comes with the job until unmasked (one single case).

Isolated fraud in response to unshareable financial pressure on the family.

Cognisant of his family's financial circumstances and need for money, one of the parents in a position of financial trust and of low internal control avails himself of an opportunity, commits an isolated offence, and then ceases the criminal activity (two cases).

Serial fraud in response to unshareable financial pressure on the family. Also cognisant of his family's dire financial circumstances and need for money, a crime-prone professional commits fraud, gets over-confident that he can get away with it, and commits more frauds. Having satisfied the financial need of the family his real motive now for continuing to commit fraud offences is sheer greed (five cases).

Fraud as personal justice. A disgrantled, vindictive ex-employee exploits an opportunity and commits a fraud to get back what he believes the company owes him (one case).

Isolated fraud as response to unshareable financial pressure on one's self.

Motivated by a need to resolve financial difficulty of a personal nature (i.e., not a family need and not a business need) an individual with weak self-control seizes an opportunity and commits fraud but does not become a serial offender (two cases).

Serial fraud. Motivated by a wish to solve a financial problem of a personal nature, a person (e.g., an overoptimistic lawyer driven by greed) commits fraud by exploiting an opportunity in the belief that there will be an upturn in the economy, his/her investments will improve and he/she will thus be able to pay the money back into his/her clients' trust accounts (four cases).

Serial fraud due to a vice. Motivated by a need to solve a serious financial problem due to big losses at the gambling table, a compulsive gambler commits fraud time and time again, as he sinks deeper into financial trouble, and stops when discovered (two cases). One case involved a 40-year old male (Mr. L), married with three children, was the manager of the accounts payable of a company. He worked there over 20 years but had a gambling habit. In 1993, the manager of business systems had difficulty reconciling an account. He found that seven cheques drawn on the company's name of \$136,161 had unlawfully been paid into Mr L's account. Mr L then admitted that in his role as manager, he was able to access the computer system, create fictitious accounts/files, and make unauthorised alterations and/or deletions to this information. This unauthorised activity allowed Mr L to generate seven cheques of various amounts drawn on the company's account and payable to his personal account. He did this to feed his compulsive gambling habit.

A third case in this typology is the case of a married woman living with her unemployed husband who was socialising in an extravagant manner with her lover. She bought him expensive gifts including a house. The lover was not aware how Mrs X obtained the funds. He just thought she was wealthy. She worked for an insurance company and once a file for a car accident was completed she would re-open it, use someone's password to put an invoice in, use a third person's password to approve it and draw a cheque to herself or her husband. She would then retrieve the cheque from the printer which was on another floor in the same building. No one found out for some months until the internal auditor noticed some inconsistencies.

Fraud to restore social identity. A megalomaniae type of individual who cannot not endure the status incongruity brought about by some disastrous business investments, believes he can commit the crime and not get caught and exploits an opportunity to commit an isolated fraud to ensure his social identity does not suffer (one case).

Serial fraud by an unscrupulous deceiver. A first-offender psychopathic megalomaniac high flier of low integrity commits frauds against close friends, clients and business partners repeatedly, without having any qualms about it. A total of seven cases belonged to this category. For an example see case description No. 14 above.

Serial fraud to assist loved ones with a financial problem. An example is where a finance manager falsifies payment vouchers and misappropriates money from his employer's bank account. He uses the money to pay university fees for his brother and to assist his sister who lives overseas. He justifies the frauds in terms of "nobody will get hurt" (four cases).

Interestingly, the cases examined did not include a case of someone committing fraud as a challenge to the system, as a thrill, even though such cases have been reported in the literature.

Table 9: Number of Cases per Typology

Typology	No. of cases	% of cases
	N=50	
Predator/career serial fraud offender/ unscrupulous deceiver	15	30
Opportunist acting out of greed, first offender in professional occupation	12	24
Serial fraud as response to unshareable financial pressure on the family	5	10
Serial fraud to solve a financial problem of a personal nature	4	8
Serial fraud to assist loved ones with a financial problem	4	8
Serial fraud due to a vice	3	6
Isolated fraud as response to unshareable financial pressure on one's self	2	4
Isolated fraud as response to unshareable financial pressure on the family	2	4
Isolated fraud to restore social identity	1	2
Fraud under an assumed professional identity	1	2
Fraud as personal justice	1	2

Table 9 shows that where fraud is committed, there is a significant likelihood that it is not an isolated event. The explanation for this finding is that the offender(s) will only stop when found out, irrespective of whether the offender(s) is/are without a

criminal record or of the predator/career kind; the former type of offender finds more frauds need to be committed to cover the money missing while the latter feel no remorse about stealing as much money as possible. It needs to be borne in mind, however, that the frauds studied were frauds which had been discovered. Therefore, caution is needed in extrapolating this finding to all fraud. Table 9 also shows the heterogeneity of both the type of persons committing major fraud as well as the circumstances under which they offended. It can be seen that the largest category (30%) is the predator career fraud offender and the second largest (24%) the opportunist unscrupulous first offender, with low self-control, in a professional occupation and holding a position of financial trust, commits fraud alone or with accomplices, motivated by greed. The third largest category (10%) involves cases where in response to unshareable pressure on the family, a person with low selfcontrol exploits an opportunity and embarks on a spree of frauds against people he/she knows well. We see that the predator career fraud offender comprises a large proportion of such offenders whose frauds could be reduced significantly by means of better vetting of job applicants by employers. However, it needs to be emphasised that even if a person in a position of financial trust does not have a criminal record, it does not mean that he/she is not crime-prone. Therefore, in selecting candidates for such positions, one could administer them written tests of degrees of self control (see Grasmick et al., 1993) in order to identify those who are fraud risks. Finally, what the typologies identified make clear is that an effective preventative measure against fraud is undoubtedly strong internal controls.

In summary, the categories of people in positions of trust who commit fraud

comprise a variety that includes; over-optimistic opportunists; the vindictive type; professional commen who are likely to have a criminal record; people who commit an isolated offence (and others who become greedy and commit a number of offences) to solve a serious financial problem of a personal or family or business nature; unscrupulous high fliers, and investors or compulsive gamblers whose excessive optimism that "things will soon improve" leads them into committing a spate of deception offences. Fraud is made possible by the existence of the three components depicted in the ROP model, namely a motivated crime-prone individual, opportunity and rationalisations. The classification offered above should be treated with caution since: (1) there is some degree of overlap between some of the categories of offenders (e.g., a married compulsive gambler has a financial problem which impacts on his family); (2) the offenders were not interviewed; and (3) because of the sample of cases studied. The typologies offered do, nevertheless, support the view that major fraud offenders comprise a range of categories of offenders who perpetrate their crime(s) under a broad range of circumstances, for a diversity of motives and use different modus operandi.

Cressey (1986) considers rationalisations the most vital component of an explanation for why people commit fraud. Cressey interviewed imprisoned embezzlers in the U.S. about their rationalisations. No interviews were conducted with any of the imprisoned major fraud offenders included in the MFG study due to time constraints and lack of necessary resources. Therefore, information about such offenders' rationalisations was extracted from sworn written statements made to the MFG detectives investigating. This means that what is reported about rationalisations (see

Figure 3 in Chapter 7) must be treated with caution. Offenders made their sworn statements, which were subsequently used in evidence during the trial, presumably acting on advice from their lawyer. It is possible that how they rationalised their fraudulent activity in the course of police interviews may be different from how they really justified the fraud(s) to themselves at the time. With this limitation in mind, it is interesting to note that the study identified more rationalisations (see Figure 3) than had been listed in Figure 1 on the basis of the literature discussion in Chapter 3.

Table 10 shows the different types and frequency of rationalisations used by the MFG offenders. The most frequently used rationalisation was "I am entitled to whatever money I can get" and so forth (30%) that characterised predator, career offenders. The most common rationalisations in this study are almost identical to those reported by Cressey (1986) in the U.S.

In considering the rationalisations listed in Table 10, it needs to be remembered that in classifying the rationalisations as articulated by the offenders, an attempt was made to convey the essence of the justification used as they would often give a long answer to the question "why did you do it?". It should also be remembered that an apparent belief that the risk involved was low and the offender could avoid being found out was common to the majority of cases. However, in only three cases was that belief actually spelled out by the offenders.

Table 10: Fraud Offenders' Rationalisations

Rationalisations	No. of Cases N = 50	% of cases	
Deceiving is what I do for a living, I am entitled to whatever money I can get. I can make better use of the money than the company.	15	30	
The end justifies the means/It's for a good purpose/ It's to: save the company/pay the staff/I'm doing it for the family.	8	16	
Nobody will get hurt/I am not really hurting anybody/the bank won't miss the money.	6	12	
I am only borrowing the money and will pay it back.	6	12	
I just need the money, there's no other way.	4	8	
It's okay to borrow from client's accounts because he/she does not really need the money.	3	6	
I can get away with it.	3	6	
The potential reward is worth it.	1	2	
The company owes me.	1	2	
I've deceived no one; these are only technical deficiencies in the accounts	1	2	
I, too, have a right to enjoy my life.	1	2	
Others do it too.	1	2	

Table 10 shows that while a proportion of offenders justifies the fraud as a means to an end, others did it as merely "borrowing" from clients' accounts or in order, for example, to prevent bankruptcy, or "borrowing" from their employer or clients in order to pay personal debts. Those offenders indicated that they intended to pay back the money when their business picked up, when they won sufficient funds through gambling or when the investments they had made using the money returned a

sufficient profit. In considering the rationalisations listed in Table 10, the reader should note that they definitely existed after an offender was apprehended by the police. Future research should investigate the existence of rationalisations before an offender is apprehended and whether they predict fraud. To understand fraud victimisation further, future research should study more systematically the rationalisations used by different typologies of fraud offenders and explore the different styles of interpersonal interaction learned by fraud offenders in childhood and adolescence and/or as part of their socialisation into particular subcultures in the workplace or elsewhere.

# 6.0 HOW DETECTIVES CLASSIFY FRAUD OFFENDERS

Common sense would dictate that because police detectives often encounter the worst side of human nature in dealing with criminals, they would be biased when attributing motives to serious offenders and to assume they are rational decision makers with malicious intent. At the same time, however, one could argue that because of their extensive experience in questioning and otherwise investigating major fraud offenders, the detectives involved are in a position to give a reliable opinion regarding the reasons why someone committed fraud. In the opinion, then, of the 13 police detectives responsible for investigating the cases examined and preparing the briefs, the most common motives are: (1) sheer greed (46%)<sup>9</sup>; (2)

<sup>9</sup> Case 21, discussed in section 2.2.1, has now been finalised by the courts in Victoria and been made public. The CEO involved, received a 4 year jail sentence, including a minimum term of two and one-half years, despite the fact that he has repaid \$3.453 million of the funds misappropriated. Justice Eames while delivering the sentence emphasised the fact that the person in question was "motivated by greed" and while he "engaged in fraud upon the company" he expressed concerns to the rest of the members of staff of the problem

megalomania, i.e., continuing to enjoy a very expensive lifestyle as far as holidays, houses, cars, clothes and parties are concerned beyond one's financial means in order to keep up appearances for one's peers (23%); (3) financial problems (personal or business) 26%; and, finally, (4) vices (i.e., gambling or double life (5%)).

Comparing and contrasting the detectives' classification of the offenders' motives with the distribution of typologies identified (see Table 7 above), we see that a "financial problem" of one kind or another features in 31% of the former and 34% of the latter. This finding is of some interest since we might expect police detectives, who spend a significant part of their working lives investigating serious crimes, to have a jaundiced view of offenders due to the insularity and isolation of their job (Worden, 1993). Finally, it comes as no surprise to find that the detectives' perception of the offenders' motives differs significantly from the offenders' own rationalisations for committing the crimes concerned (see Table 8).

### 7.0 MFG CASE RESULTS AND THE ROP FRAUD MODEL

The findings provide support for the validity of the eight assumptions of the ROP model identified in Chapter 4. The findings obtained indicate that heterogeneity is a basic characteristic of fraud offenders and their crimes. In addition, crime-proneness (in the form of low self-control) is an essential component of fraud offenders and a broad variety of motives underpins the aetiology of fraud; while financial pressure is

of theft (Phesant, 1997:1 and 8).

the most frequent motive, correlates of fraud exist at different levels of analysis and supplement one another. Finally, there are individual differences in how a crime opportunity and a rationalisation is constructed.

The results highlight the importance of the three components of the ROP model - a motivated crime-prone person (P), crime opportunity (O), and rationalisations (R) - in the actiology of fraud. Considering first crime-proneness as an attribute of the offenders, the findings confirm the crucial importance of low self-control. More specifically, the results reported add some support to the following components of self-control proposed by Gottfredson and Hirschi (1990:89) and as re-defined and measured by Grasmick et al. (1993):

- inpulsiveness: this is evident in those cases where an offender exploits an
  opportunity that presents itself and commits fraud without any reservations;
- ii. risk-seeking: many of the offenders appear to have perpetrated their frauds in a way that betrays a tendency to be adventuresome;
- iii. preference for simple tasks: many of the offenders exhibited a preference for easy gratification of their desire for money; and
- iv. being self-centred: a large number of the offenders can be described as self-centred, insensitive to the suffering and needs of those they victimised.

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#### 8.0 DISCUSSION OF RESULTS

The results of this study show that the research into the MFG offenders achieved its seven designated aims. The results obtained show the validity of all eight assumptions of the ROP model. More specifically, the data analysis confirmed the importance of all three components of the ROP model in understanding why people in a position of financial trust commit fraud. When comparing the fraud indicators present in the ROP model with those in Loebbecke et al. (1989) it was interesting to find that the modus operandi of serious fraud offenders is very much the same whether they operate in Australia or in the U.S.

While results of the study support Gottfredson and Hirschi's (1990) emphasis on crime opportunity and low self-control, no support was found for their claim that fraud offenders are versatile or that crime opportunity is a better predictor of fraud than a crime – prone person with a motive.

All eight assumptions of the ROP model appear to be valid. The two-component profile of the serious fraud offender that emerges from the study and which includes the taxonomy of cases is a lot more detailed than has hitherto been reported in the literature. To illustrate, Robertson (1996:294), for example, claims, white-collar offenders have these characteristics:

Likely to be married, probably not tattooed, educated beyond high school, range in age from teens to over 60, employment tenure from 1 to 20 or more years, not likely to be divorced, member of a church, no arrest record,

socially conforming, usually act alone.

Auditors need more details of such a profile in order to improve their fraud detection ability. The profile of fraud offenders reported in this thesis has been developed from data pertaining to actual major fraud offenders prosecuted by the police. Offenders and their crimes exist in a context. A profile that focused solely on features of the individual and ignored the interaction between a particular individual offender and particular circumstances and conditions (such as type of opportunity, type of victim) would not have much utility for auditors. The present research indicates that, at a general level, a fraud offender is one who; (1) is likely to be a male first offender; (2) aged 31-45; (3) occupies a position of trust; (4) acting alone and mainly out of greed, breaches that trust and commits a spate of deception offences defrauding a number of victims; (5) is in a position to bargain with those that prosecute him (see Katz, 1978); and (6) ends up going to prison for a relatively short period of time. The findings pertaining to demographic characteristics and lifestyle, criminal history, modus operandi and "distorted stories" of the major fraud offenders examined. indicate that a criminal profile incorporating all this information is possible. The profile constructed comprises information at a general level and an account of 12 specific offender typologies. The auditor, of course, needs to look for the most frequent factors associated with fraud. With this need in mind, the two-component profile constructed in the MFG study will assist auditors to enhance their frauddetection ability, but not if it is used by itself. This is because what the general profile describes could be any professional in a position of financial trust. Rather, it ought to be used in combination with: (1) the knowledge concerning the interrelationship found between offence, offender and victim characteristics; and (2) the fraud-detection model reported in the next chapter.

Contrary to what Gottfredson and Hirschi's (1990) General Theory of Crime predicts, most major fraud offenders are not immersed in crime in the sense of being recidivist career offenders. It is possible, of course, that an offender has been perpetrating fraud and/or other offences for much longer but managed not to come to police attention. Future research should aim to identify and interview major fraud offenders whose crimes remain part of the dark figure of white-collar crime.

The findings, however, support Gottfredson and Hirschi's theory to some extent in so far as the offenders in this study evidenced low self-control and exploited opportunities available to them. Future research should interview fraud offenders in order to explore the different styles of interpersonal interaction learned by such individuals in childhood and adolescence and/or as part of their socialisation into particular subcultures in the workplace or elsewhere. Such data would throw some light on the question of how it is possible for fraud offenders to be insensitive to the needs and suffering of those they victimise in order to explain the use of different rationalisations by them. Future research should also explore personality differences amongst fraud offenders (e.g., in terms of Eysenck's three scales-see Chapter 2) to add to our understanding of their offending. The offender-circumstances typologies identified by the MFG study need to be explored further in an attempt to produce "social profiles" of the offenders. Regarding the career/professional fraud offender, future research should examine the possibility that, as a profiler would predict, the

way such offenders carry out their crimes on one occasion has some characteristic similarity to the way they carry out their crimes on other occasions. Finally, there is a need to investigate further the relationship between a person's characteristics and their fraud. Initially, one could focus on simple one-to-one relationships. It might then be possible to build on such simple relationships and generate canonical equations which provide an objective way of analysing the relationship between two sets of variables such as a person's characteristics and his/her actions (see Canter, 1995:345).

The offenders did not, as the general theory of crime would have predicted, engage in a variety of criminal acts but stuck to fraud. It becomes apparent that the offenders studied comprise a number of typologies of major fraud offenders, many of whom experienced situational pressures (e.g., high personal debts, financial losses) and who rationalised their offending to make it acceptable to them and thus to continue to perceive themselves as successful professionals in their fields. Also, it should not be forgotten that solicitors, accountants and bank managers, operate in an occupational culture that values wealth and corporate success, considers failure quite unacceptable, and, at the same time, provides opportunities for major fraud.

Whether the sentences imposed by the courts on such offenders (mostly five years' imprisonment or less) serve the purpose of individual and/or general deterrence is impossible to say on the basis of the research carried out. However, an examination of voluntary statements made to the police by the offenders indicates that a term of imprisonment of five years or less is unlikely to be a deterrent because: (1) they

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fancy their chances of not being apprehended; (2) if charged, believe they "can beat the charges" against them; and (3) even if they are incarcerated they know they would be unlikely to serve their full sentence. Without a perception by serious fraud offenders that there is a high risk of being detected and that the likely penalty upon conviction will be severe, a court would not be justified in imposing a very severe sentence on an individual offender in order to discourage him/her and/or other potential offenders from committing the same crime (Braithwaite, 1989).

The two-component offender profile yielded by the data analysis is that the commission of fraud is not a random process and that a number of individuals who share a number of demographic characteristics (gender, age, marital status, occupation) and criminal justice features experience pressures to raise money for themselves, or their companies, or their loved ones. Since by virtue of their occupational position, they have the opportunity and the knowhow, they often do not require accomplices, and proceed to commit a number of deception offences following a characteristic modus operandi. Furthermore, they rationalise their behaviour in ways that neutralises any guilt they may feel as a result of their frauds. A sizeable minority of the offenders are best thought of as predators.

It is not claimed that armed with the criminal profiling results obtained, auditors can identify an offender and significantly increase their fraud-detection effectiveness. This is simply because, on the basis of existing knowledge in this area, it is just not possible to predict accurately who in a company will commit or has been committing fraud. Without ignoring its limitations, what the research reported in this chapter can

do is to increase the fraud awareness of auditors and point to some indicators, i.e., red flags, which should alert auditors to an increased possibility of fraud. Together with empirically obtained knowledge about other sets of red flags pointing to vulnerable types of industries/companies as well as vulnerable areas within particular types of industries/companies, the red flags inherent in the offender profile provided above can be used to alert an auditor to a greater likelihood of fraud and thus negate an auditor's sense of complacency.

The findings obtained in the study reported in this chapter suggest that auditors played but a rather limited role in the detection of the frauds involved. The eclectic fraud detection model proposed in this thesis (see Chapter 6) shows how auditors can improve their fraud detection ability. Future research should expand the two-component profile of major fraud offenders constructed by the research, using indepth psychological interviews with such offenders. Given that most frauds involve financial pressure on an individual and that factor plays such an important part in contributing to fraud taking place, a simple income-expenditure assessment of professional people in positions of trust should help to identify potential/actual major frauds. Future research should also consider fraud by a variety of officially-known and self-reported offenders in order to identify the factors that best explain their specific nature and prevalence.

#### 9.0 CONCLUSION

Without forgetting its limitations, the MFG study has tested and demonstrated the applicability of the ROP model and its three components. It is the first time a comprehensive model of the aetiology of fraud (in terms of the components that are necessary for fraud to occur) has been proposed and tested successfully. As already stated, Loebbecke et al.'s model has nothing to say about rationalisations and one of its basic premises has been shown to be wrong. As far as it has been possible to ascertain, the ROP model is the only one which accounts for the broad range of persons who perpetrate fraud and the circumstances under which they do it. Future research should test the ROP model with a larger and more representative sample of fraud cases involving people in positions of financial trust. The fraud indicators identified for O and P can be used by auditors to enhance their fraud-detection ability.

A profile of major fraud offenders would be useful to auditors if used in conjunction with other relevant knowledge about fraud risk such as different industries and financial areas. The findings of this study show that the modus operandi (deceptive action) of serious fraud offenders is very much the same whether they operate in Australia or in the U.S. and that the offenders are very prolific.

Tabulation of data concerning fraud indicators shows that the presence of any two of Loebbecke et al.'s (1989) three components is usually sufficient for fraud to occur. This finding is contrary to a basic premise by Loebbecke et al. that for fraud to occur

| 1| |{ |} all three components (CMA) of their model must be present,

Reflecting the importance of opportunity, most of the offenders (94%) victimised someone they knew. Approximately one-third of the offenders had a criminal record, and that was especially the case with managing directors. This finding points to the importance of screening applicants for position of financial trust through background checks, to reduce the risk of fraud victimisation. The finding that about one-third of the offenders had accomplices means that for such offenders the decision to commit fraud follows group discussion, a factor catered for in the ROP model.

The findings show that it is not appropriate to talk about major fraud offenders as a homogeneous population. Future research should explore further patterns identified between offence, offender, victim and criminal justice characteristics with a larger sample of offenders in order to replicate the two-component criminal profile reported above and, also, to measure fraud offenders' level of self-control using the instrument developed by Grasmick et al. (1993). The next chapter reports a broad range of empirical findings from a survey of Australian auditors' experience in detecting material irregularities including fraud.

#### CHAPTER 6

## A SURVEY OF AUDITORS' DETECTION OF MATERIAL

### IRREGULARITIES.

#### CHAPTER SUMMARY

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This chapter describes the methodology used for and discusses the results of a postal survey of auditors concerning both their experiences with detecting a broad range of irregularities (including employee and management fraud) provided in AUS210 AARF (1995a) which could have a material impact on the financial statement as well as their sensitivity to red flags. Findings, which supplement the MFG study, are also reported regarding the perpetrators of the material irregularities and their motives, as perceived by the auditors. The aims of the survey were to test the eclectic fraud detection model and Loebbecke et al.'s fraud assessment model. Findings are also discussed pertaining to both fraud-reporting by auditors as well as the extent to which auditing firms are utilising specialist fraud investigators, namely fraud auditors and forensic accountants. Finally, the results of the survey are discussed in the context of the eelectic fraud detection model.

#### 1.0 INTRODUCTION

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Despite the importance of auditors' detecting and reporting material irregularities, there is not a great deal of information in the professional or academic literature about these matters. No work has been undertaken of such a magnitude in Australia. Australian auditors' experience in encountering irregularities and their knowledge about the perpetrators and the aetiology of irregularities generally was obtained by means of a self-administered structured questionnaire. The questionnaire collected data on auditors' experience in detecting a broad range of irregularities, namely: management fraud, employee fraud, other illegal acts, other acts, intentional but not fraudulent or other illegal misstatements, and errors (see AUS 210 (AARF, 1995a, para. 05)).

#### 2.0 RESEARCH METHOD

#### 2,1 The questionnaire

The questionnaire was modelled on the one used by Loebbecke et al. (1989). As a result their findings can be compared, despite the fact that each study used a different sample of auditors. A copy of the questionnaire is shown in Appendix 1.

According to Moses and Kalton (1981:257-259), compared to other research methods, mail surveys have some advantages that include the following: they are cheaper, take less time to do, and avoid such sources of error as interviewer bias. Such surveys, however, face the difficulty of a low response rate, generalizability of the findings, not knowing that a respondent completed the questionnaire alone, and that the researcher is in no position to probe the respondent's answers further (see also Judd, Smith and Kidder, 1991:216).

Before the questionnaire was sent to auditors, it was piloted in July 1995 by administering it to five auditors known personally to the author. In order to make the questionnaire more easily comprehensible, the following suggestions by the respondents were incorporated in the revised version used in the study: to provide a definition of the terms "code of conduct/ethics/practice"; to define each type of irregularity addressed and to illustrate by providing an example of one; instead of the industry classification used in Loebbecke et al. (1989), to list the one used by the Australian Bureau of Statistics (1993); instead of Loebbecke et al.'s list of fraud indicators, to use the list in AUP16 (AARF, 1993 - applicable at the time); instead of Loebbecke et al.'s terminology of "occurred", "relevant", and "apparent" when referring to red flags, to use "applicable to the engagement", "relevant to the irregularity", and "alerted[the auditors] at the planning stage" respectively. Finally, on the basis of suggestions by those respondents, three questions were rephrased to make their meaning clearer.

The questionnaire comprised three parts. Part I collected summary information about each of the irregularities which the respondent had experienced during the last five years. This information was collected to increase our knowledge about auditors' experience with material and immaterial irregularities, their nature and frequency of occurrence, as well as whether they had a material impact on the financial statements of the clients involved.

Respondents were provided with a definition of: (1) irregularities and (2) code of corporate conduct to ensure consistency. Respondents were asked about the following: a management fraud<sup>2</sup> (to provide a description); the number of times that irregularity was encountered; the industry the client operated in; what alerted the auditor to the irregularity; whether there were effective internal controls in place; whether a code of conduct existed and, finally, whether there was a material financial impact on the accounts. They were asked to repeat the exercise for five more types of irregularities, namely:

- employee fraud;
- other illegal acts;
- other acts which contravene the constitution of an entity including noncompliance with trust deeds or memorandum and articles of association;
- intentional but not fraudulent or other illegal misstatements; and
- errors which are unintentional mistakes.

The information collected on the different types of irregularities was expected to throw some light on both the types of industries that are prone to particular frauds as well as on the question whether having a code of conduct or effective internal controls assists in combating fraud.

<sup>2</sup> In the survey of auditors' experience with detecting irregularities reported in this chapter management and employee fraud were treated as two categories of fraud to enable a comparison of the results obtained with Loebbecke et al.'s (1989) findings and the KPMG (1995a) fraud survey.

Part II requested information about one material irregularity selected by the respondent.

The respondents were asked to:

- describe how the irregularity was committed;
- who was involved;
- the industry and the status of the client<sup>3</sup>;
- audit areas affected by the irregularity;
- how long the audit firm had been an auditor of that client when the irregularity was discovered;
- over what time period that particular irregularity had been committed;
- the audit procedures first indicating the irregularity;
- whether the presence of a fraud auditor or forensic accountant on an audit team would have assisted in discovering it earlier than it had been;
- a profile of the perpetrator; and
- to whom the material irregularity was reported.

The respondents were in no position to provide data on offenders' rationalisations (R) or crime – proneness and motives (P). Therefore it was not possible to test the ROP model.

<sup>3</sup> The industry designation used is the one found in the Australian Bureau of Statistics (1993) Australian and New

Part II also provided participants with a list of red flags that comprised those mentioned in AUP 16 (AARF, 1993)<sup>4</sup>. With reference to one particular material irregularity they had encountered themselves in the last twelve months, they were asked to tick the indicator(s) applicable to the engagement and relevant to the irregularity and whether it alerted the auditor during the planning phase. The categories "applicable ...", "relevant ..." and "whether alerted ..." were independent but not mutually exclusive.

In Part III, the respondents were asked to provide demographic data about the respondent and his/her experience, which included:

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- state of residence;
- gender;
- current position;
- number of years of experience as an auditor;
- position in the partnership;
- number of years in current position;
- approximate number of engagements worked on;
- industry specialisation;

Zealand Standard Industrial Classification, hence it is slightly different to Loebbecke et al.'s

<sup>4</sup> Since the study was concerned with Australian auditors' experience in fraud detection it was considered appropriate to use the fraud indicators (red flags) provided in the Australian Auditing Standard (AARF, 1993) which are the same as in AUS 210 (AARF, 1995a) rather than the ones provided by Loebbecke et al. (1989). In comparing the different red flags, however, it became apparent that the Australian list of fraud indicators is a lot more comprehensive (it covers the EDP area as well) than the one used by Loebbecke et al.

- size of employer (e.g., Big Six- applicable at the time);
- whether the audit firm provides forensic and fraud auditors and their qualifications; and
- number of times a fraud auditor/forensic accountant had been required by the respondents themselves or their client in the last 12 months.

# 2.2 The respondents

They were accessed as follows: first contact was made with the managing audit partner in several large, medium and small firms to seek their cooperation in the study. Initial contact was made with 117 partners in the Big Six, medium tier firms, and small practices in Australia in the middle of September 1995. The practices were selected from the yellow pages and telephone contact was made to identify the partner in charge of audit in a particular practice. Personalised letters were sent to the 117 partners stating the research being carried out and soliciting their firm's participation. A follow-up telephone call was made two weeks later. A total of 76 partners (65% of firms initially approached) agreed to participate. At the end of October 1995 they were provided with 433 questionnaires to distribute to their staff. The letter to the partners made mention of the fact that the Major Fraud Group of the Victoria Police was actively supporting the research into fraud and a letter to that effect by the then Commander of the MFG, Allen Bowles, was attached to the questionnaire (see Appendix I).

In order to avoid duplication of data, it was agreed with the participating partners that they would distribute only one questionnaire per fraud investigated. Partners were also asked to distribute questionnaires only to those who had some experience in fraud detection, or worked on a fraud investigation. Where firms employed fraud auditors or forensic accountants they were asked to distribute a questionnaire to them as well.

In addition to financial auditors, the Western Australian and Victorian Auditor General's offices were approached to participate in the research. The Western Australian Auditor General expressed some interest and he asked for 13 questionnaires to distribute as instructed. The Auditor General of Victoria, however, initially expressed an interest in participating in the study, but changed his mind after receiving copies of the questionnaire. Given that a lot of fraud is identified by the internal auditors, 25 questionnaires were distributed at a meeting held by the Internal Auditors'

A total of 125 questionnaires were returned during the period from the last week in October until the middle of December 1995. Of those, 17 were blank. Thus, 108 (86%) completed questionnaires were used for the data analysis. The low (23%) response rate is probably due to the fact that: (1) as Loebbecke et al. reported, it is rarely that auditors detect a material irregularity (including management and employee fraud); (2) only one questionnaire was distributed by the participating partners per fraud; and (3) mail surveys generally have a low response rate.

Association on fraud detection addressed by Commander Bowles.

In the present study, the following incentives (discussed by Moses and Kalton, 1981) were provided for the respondents to complete the questionnaire: a covering letter was attached which explained the main aims of the survey and which, also, informed the respondents that the research had the support of the MFG; a stamped addressed envelope was provided; the respondents anonymity and confidentiality of the data was assured; a follow-up letter was sent, and a gift voucher was offered. It should also be noted in this context that the response rate "is not the only consideration in evaluating the quality of data from a survey" (Judd et al., 1991:217). Even though the response rate is low, since it rises above 20% the failing is not so critical as to make the survey results of little value (Moses and Kalton, 1981:268).

Of the 108 useable respondents, 87 (80.5%) completed all sections of the questionnaire while the remaining 21 completed only parts I and III. Part II asked respondents to discuss only material irregularities encountered by them in the last 12 months. It is assumed that those who did not complete Part II either had not come across a material irregularity in the last 12 months or might have felt that they were to give away too much information about their client if they did. Part III of the questionnaire collected demographic data about the respondents and their audit experience.

Overall, it can be said that the survey had a relatively high response rate most likely due to the fact that partners solicited the respondents. The process by which the 108

<sup>5</sup> Loebbecke et al. (1989) assumed that those auditors who did not participate in their survey did so because they had

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respondents came to participate in the survey, and whose data form the basis of the findings reported below, means that as a sample they can not be considered a random sample of auditors with experience in detecting irregularities, including management and employee fraud. At the same time, however, it is clear from discussions with numerous partners that fraud-detection is such a specialist field that the proportion of fraud-experienced auditors in accounting firms is very small.

Most respondents resided in Victoria (40%), QLD. (17%), N.S.W. (15%), S.A. (15%), W.A. (8%), ACT (3%) and TAS (2%). The majority (85%) were males. While 39% held manager positions, 28% were partners, 13% seniors, 12% supervisors and 8% assistant managers, (see Appendix II for full details).

Regarding their position at the time of the survey, most (82%) were financial auditors, 7% public sector auditors, 7% fraud auditors and 4% internal auditors. Forty-two per cent had been auditors for 11 years or more, 38% had been in their position for over three years and there was no one with under three years' experience. About three quarters (73%) were working for one of the Big Six firms.

About half (52%) had worked on more than 50 engagements and about two-thirds (67%) had specialised in auditing more than three different industries. The following are some interesting characteristics of the auditors who participated in the survey and

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not encountered an irregularity (p.7).

should be borne in mind when interpreting the findings reported below:

Table 1: Respondents' Fraud Experience

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Average audit experience (in years)	10
Average years in current position	3
Average number of engagements worked on	106
Average number of engagements where an irregularity had	
been encountered	5
Average number of engagements where a material	
irregularity had been encountered	39
Engagements where an irregularity had been encountered as	
a % of all engagements worked on by the respondents	19%

The participants in the present study, are slightly younger in age, with fewer years' experience in audit and with less experience in encountering irregularities, compared to those in Loebbecke et al. (1989). The reason for these differences is that Loebbecke et al. surveyed only partners whereas in the present study partners made up 28% of the respondents.

As already mentioned, the sample of auditors who took part in the survey did so because they had experience in detecting irregularities, including management fraud and defalcations. Furthermore, the auditors concerned are a heterogeneous sample by virtue of the fact that they belonged to different firms, had different lengths of audit experience, and held different positions. The nature of the sample, therefore, limits the extent to which the findings obtained can be generalised to auditors in general. Unlike the auditors in Loebbecke et al. (1989) and Pincus (1989), however, the respondents in the present study did not come from one single firm. Hence, it is argued that the

research findings can be cautiously generalised to auditors experienced in detecting irregularities (including management fraud and defalcations) more justifiably than in the case of Loebbecke et al. (1989) and Pincus (1990).

#### 3.0 SURVEY RESULTS

# 3.1 Part I of Survey: Irregularities Encountered by Auditors and Discussion of Findings

# 3.1.1 Respondents' experience with irregularities

Table 2: Number of Irregularities Encountered by the Respondents

Number of Irregular ties encountered	Number of respondents who had encounterd immaterial irregularities		rregular ties had encounterd		had encount	espondents who tered material ulerities
	%	Number	%	Number		
0	19.6	20	34.0	36		
11	20.6	21	34.9	37		
2	16.7	17	13.2	14		
≥3	43.1	44	[7,9	19		
Total	100%	102	100%	106		

Table 2 shows that auditors are much more likely to encounter an immaterial than a material irregularity. More specifically, 66% of the respondents had come across at least one material irregularity while 80.4% had encountered immaterial irregularities during the last five years. Table 2 also shows that a significant proportion of the auditors concerned had encountered 3 or more immaterial irregularities within the last five years. By comparison, Loebbecke et al. (1989) found that 40% of the 277

audit partners who participated in their survey had not encountered a material irregularity of any kind and, of those, only 11% had done so on more than five occasions (p.8). In the present study of those who had encountered a material irregularity, 8.9% had done so on five or more occasions. The results obtained support Loebbecke et al. (1989) who also found that for many auditors encountering a material irregularity is a rare event. One could, therefore, argue that it is not reasonable to expect the average auditor to be proficient in detecting such irregularities as fraud when he(she) does not seem to have the necessary experience. According to Loebbecke et al. (1989:3), experience in fraud detection is one of the attributes needed since fraud detection is without doubt a "multi-attribute, high-level judgement task that requires knowledge, experience and reasoning" (Loebbecke et al., 1989:3).

When asked to provide detailed information in respect of specific irregularities, the 108 respondents indicated they had come across 768 incidents of irregularities during the past five years which comprised: 305 management fraud (39.7%), 185 (24.1%) employee fraud, 146 (19%) other illegal acts, 32 (4.2%) other acts, 52 (6.8%) intentional but not fraudulent or other illegal misstatements and, finally, 48 (6.2%) errors. These are the irregularities the respondents chose to discuss. It is possible, of course, that there might have been some irregularities they did not want to divulge or did not remember well enough to discuss in Part I of the survey.

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## 3.1.2 Management fraud

Management fraud was defined in the questionnaire as an act which involves the use of deception to obtain an illegal advantage by management. The respondents had encountered a total of 305 cases of management fraud during the last five years (i.e., 39.7% of the total irregularities encountered by those surveyed) and provided detailed information on 153 (50.1%) of them.

Table 3: Types of Management Fraud Encountered

Type of management fraud	Number of cases	% of cases
Window dressing	31	20.2
Misappropriation of funds	27	17.6
Cash spent without approval	14	9.2
Manipulation of reconciliations	14	9.2
Kickbacks	12	7.8
Conflict of interest	11	7.2
Other	10	6.7
Theft of equipment	8	5,2
Overstatement of sales/revenue/debtors	8	5.2
Overstatement of stock	8	5.2
Payroll fraud	6	3.9
Theft of stock	4	2.6
Total	153	100%

Regarding the type of management fraud encountered by auditors, Table 3 shows that the most frequently encountered management frauds in the present study were

<sup>6</sup> This term is not specifically defined in AUS 210 (AARF, 1995a, para.05) which only defines fraud as "an act which involves the use of deception to obtain an illegal advantage" and, since it is "management", it was added by the author that it ought to be committed by management. The same definition of "management fraud" was used by Loebbecke et al. (1989) [personal communication], namely "the material, intentional misstatement of financial

window dressing and misappropriation of assets. Loebbecke et al. (1989) reported that assets overvalued or incorrectly valued was the highest ranking management fraud, which is similar to window dressing.

Concerning the industry classification used in the present study, it should be noted that the respondents provided a long list of industries in which their clients operated in, responding to Part I of the questionnaire. A number of industries did not belong to any of the categories listed in Table 4 and subsequent tables which are based on the Australian Bureau of Statistics (1993) classification. Such categories included, for example: Fuel distribution, aviation, international service provider, "various", and subsidiary company. Such categories were assigned to the no industry category because they were very few in number to show separately in the analysis and did not come under any of the ABS classification. In other words, the no industry category is a miscellaneous category. To this category it was also added "fund management and trusts" which the respondents had listed on its own as a separate category worthy of attention, despite the fact that it would be listed under Financial Services.

Table 4 indicates that most management fraud occurs in the manufacturing and construction industries. This may be because there are more companies in these two industries than in most others. In manufacturing it often takes the form of window dressing, overstatement of stock, theft of cash and equipment, payroll fraud and cash

statements to dofraud users".

spent without approval. In construction, management fraud involves window dressing, misappropriation of funds, cash spent without approval and kickbacks.

Table 4: Type of Industry by Type of Management Fraud and Ways of Being Alerted and their Incidence

Industry	% of management fraud	Types of management frauds committed	Main ways of being alerted
Manufacturing (N=25)	16.3	Window dressing; overstatement of stock; theft of cash and equipment; payroll fraud; cash spent without approval	Analytical and management reviews, stocktake, whistleblower
No industry (N=20)	misappropriation of funds; cash spent without approval; kickbacks;		Tests of controls and/or management review
Construction (N=19)	12,4	Window dressing; misappropriation of funds; cash spent without approval; kickbacks	Analytical; management review; substative testing; and/or knowledge of client
Government Administration and Defence (N=13)	8.5	Misappropriation of funds; kickbacks	Substative and tests of controls and/or management review
Finance and Insurance (N=10)	6.5	Misappropriation of funds	Management review and/or tests of controls
Accommoda- tion, Cafes and Restaurants (N=9)	5.9	Conflict of interest; manipulation of reconciliations	Management review; tests of controls/ substantive testing
Retail Trade (N=8)	5,2	Window dressing	Substantive testing; co-worker

Wholesale Trade (N=8)	5,2	Window dressing	Tests of controls and/or anonymous caller	
Health and Community Services (N=7)	4,6	Misappropriation of funds	Anonymous caller; substantive testing	
Property and Business Services(N=6)	3.9	Misappropriation of funds	Financial analysis; tests of controls and/or management review	
Personal and Other Services (N=5)	3,4	Cash spent without approval	Tests of controls; management or analytical review	
Transportation and Storage (N=4)	2.6	Window dressing	After balance date review; analytical and management review	
Communication Services (N=4)	2.6	Manipulation of reconciliations; misappropriation of funds	Tests of controls; substantive testing; and/or management review	
Education (N=4)	2,6	Misappropriation of funds; conflict of interest; manipulation of reconciliations	Substantive and tests of controls and/or management review	
Mining (N=4)	2.6	Cash spent without approval; misappropriation of funds; conflict of interest	Tests of controls and/or analytical and management review	
Electricity, Gas and Water Supply (N=3)	1,9	Misappropriation of funds; window dressing; manipulation of reconciliations	Financial analysis and/or tests of controls and/or management review	
Cultural and Recreational Services (N=2)	1.4	Cash spent without approval	Tests of controls and/or management or analytical review	
Agriculture, Forestry and Fishing (N=2)	1.3	Theft of equipment; window; window dressing	Review of asset register	

Table 4 also shows that there is no relationship between the type of industry, the type of fraud and which audit procedure(s) alerted the auditors. Table 4 does, however, show that management review and tests of controls are two audit procedures most likely to detect such fraud.

Manufacturing also had the highest incidence of management fraud in the KPMG (1995a) fraud survey and in the Loebbecke et al. study. The other industries with a relatively high incidence of management fraud in the present study were construction, government administration and defence as well as finance and insurance. In KPMG (1995a), the financial services and the mining industries reported the second and third highest average fraud per occurrence respectively, whereas in Loebbecke et al.'s study they were merchandising and Banking.

The industries with the lowest incidence of management fraud in Australia are cultural and recreational services, electricity, gas and water supply, agriculture, personal and other services.

Close scrutiny of the data on which Table 4, is based found that the four most common types of management fraud across the different industries in order of

<sup>7</sup> It should be noted that the auditors' responses regarding the different ways they were alerted to the existence of different irregularities are presented below as they were stated, i.e., where two such ways overlap (e.g., "substantive

prevalence were misappropriation of funds, window dressing, cash spent without approval, and manipulation of reconciliations. In contrast, the KPMG (1995a) survey reported that, out of 14 types of management fraud, the four most common were: expense account (16%), purchase for personal use (15%), theft of inventory/plant (13%), and conflict of interest (11%). The difference in prevalent fraud types between the present study and KPMG (1995a) is probably attributable to their different sample of companies and sample of respondents.

Cross-tabulating the type of management fraud with whether the fraud had a material impact on the accounts, it was found that window dressing (24%), manipulation of reconciliations (21%), misappropriation of funds (16%) and overstatement of stock (12%) were the main types of management fraud that had a material impact on the accounts.

The present study found that auditors were more likely to be alerted to the possible existence of management fraud as a result of management review (14 out of 18), followed by tests of controls, which featured in 12 out of the 18 industry categories listed, and, finally, substantive testing in 7 out of 18 industry categories (see Table 4). This is different than Loebbecke et al., who highlighted the utility of substantive testing.

testing" and "audit test of balances") no attempt has been made to merge or reclassify the two terms.

<sup>8</sup> In the KPMG survey the respondents comprised the following categories: chief financial officer (36%), chief executive officer/ managing director (24%), company secretary (11%), internal auditors (11%), other (10%), general manager (4%), chief operating officer (2%), and head of security (2%). As already stated, most (82%) respondents in

Further analysis of the data investigated whether a company belonging to a particular industry category lacked: (1) an effective system of internal control and (2) a code of conduct as well as (3) whether the management fraud impacted materially on the accounts (see Table 5). The Spearman's rank correlation coefficient test was carried out to test whether there is a statistically significant relationship between (1), (2) and (3). The same analysis was carried out for the other five types of irregularities reported below.

As several of the categories reported in Table 5 have small sample sizes, caution must be exercised in interpreting the results. With this caveat in mind, a significant relationship was found between a company having an ineffective system of internal control and lacking a code of conduct (p = 0.000) and between each of those features and the management fraud having a material impact on the accounts (p = 0.000). These significant relationships lend support to the view that an ineffective system of internal control (as was also found in the MFG study, see Chapter 5) and the absence of a code of conduct do indeed facilitate the commission of management fraud. Consequently, any steps taken to reduce fraud must include both improving internal controls and implementation of a code of corporate conduct. These two fraud-prevention steps were the two most frequently reported as having been taken in the KPMG (1995a) survey.

the present study were financial auditors.

Table 5: Industries Involved in Management Fraud by Ineffective Internal Controls, Without a Code of Conduct and the Management Fraud Having a Material Financial Impact on the Accounts

Industry	With ineffective internal control		Without a code of conduct		Material impact on Accounts	
	%	N_	%	N	%	N
No industry designation (N=20	80	16	60	12	40	8
Agriculture Forestry and Fishing (N=2)	100	2	100	2	50	1
Mining (N=4)	75	3	50	2	25	1
Manufacturing (N=25)	64	16	76	19	56	14
Electricity, Gas and Water Supply (N=3)	100	3	66	2	0	0
Construction (N=19)	68	13	63	12	58	11
Wholesale Trade (N=8)	63	5	75	6	50	4
Retail Trade (N=8)	63	5	50	4	50	4
Accommodations, Cafes and Restaurants (N=9)	33	3	44	4	22	2
Transport and Storage (N=4)	75	3	25	1	100	4
Communication Services (N=4)	50	2	75	3	25	1
Finance and Insurance (N=10)	80	8	60	6	50	5
Property and Business Services (N=6)	50	3	33	2	50	3
Government Administration and Defence (N=13)	69	9	46	6	31	4
Education (N=4)	50	2	0	0	50	2
Health and Community Services (N=7)	100	7	14	1	100	7
Cultural and Recreational Services (N=2)	50	1	0	0	50	I
Personal and Other Services(N=5)	80	4	80	4	20	ı

## 3.1.3 Employee fraud

Employee fraud was the second type of irregularity respondents were asked to comment on? Employee fraud was defined in the questionnaire as an act which involves the use of deception to obtain an illegal advantage by an employee. The terms "employee fraud", "defalcations", "employee theft" and "embezzlement" are, used as synonymous in the context of this thesis. A total of 185 incidents of employee fraud had been encountered by the 108 respondents in the previous five years. This was the second highest category after management fraud, making up 24% of the total number of irregularities discussed in this chapter. The respondents provided information on a total of 93 (50.2%) cases.

Wrong expense claim was the most common example of employee fraud (as in Loebbecke et al.), followed by product theft and cheque forgery. This contrasts with the KPMG (1995a) survey, which found that theft of inventory or plant was the most common type of employee fraud, occurring almost twice as often as manipulation of petty cash, the next most common fraud. In the present study employee fraud did not include any assets overvalued or transactions not recorded, as in Loebbecke et al., but did have a relatively high incidence of cheque forgery.

<sup>9</sup> This term is not specifically defined in AUS 210 (AARF, 1995a) but it was considered appropriate to distinguish between fraud committed by management and employees to see if there is a difference in the types of fraud committed, in Australia, unlike in the U.S., this term is not commonly used in the professional literature but it is understood more clearly than the term "defalcation" which is used in the U.S.

Table 6: Types of Employee Fraud Encountered

Type of employee fraud	Number of cases	% of cases
Wrong expense claim	25	26.9
Stealing cash	24	25.8 💮
Product theft	14	15.1
Cheque forgery	11	11.8
Payroll fraud	7	7.5
Lapping	6	6.5
Kickbacks	3	3.2
Other	3	3.2
Total	93	100%

Table 7 indicates both the type of industries that are prone to employee fraud by the type of such fraud to affect each industry as well as the ways the auditors were alerted. It shows that manufacturing makes up the largest share of employee fraud out of the 16 industry categories, followed by government administration and defence and finance and insurance. In Loebbecke et al., banking and savings was the most employee fraud-prone industry.

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Table 7: Type of Industry by Employee Fraud and Ways of Being Alerted

Industry	% of employee fraud	Types of employee fraud committed	Main ways alerted
Manufacturing (N=20)	21.5	Cheque forgery, payroll fraud, cash and product theft, lapping	Reconciliations, management and/or analytical review and/or substantive testing and whistleblower
Government Administration and Defence (N=12)	12.9	Steal cash, lapping, wrong expense claim	Management review and/or substantive/ tests of controls and/or reconciliations
Finance and Insurance (N=10)	10.7	Wrong expense claim, steal cash	Reconciliations and/or discussions with management and/or tests of controls
No Industry (N=7)	7.5	Steal cash and products	Tests of controls and/or management review
Health and Community Services (N=6)	6,5	Steal cash	Internal audit
Retail Trade (N=5)	5.4	Wrong expense claim, stealing cash, lapping	Reconciliations and cash counts
Accommodation, Cafes and Restaurants (N=5)	5.4	Stealing cash	Management review and/or test of controls
Personal and Other Services (N⇔5)	5.3	Wrong expense claim	Management review, tests of controls

Transp at and Storage (N=4)	4.3	Wrong expense claim	Management review
Communication Services(N=4)	4.3	Wrong expense claim	Tests of controls and/or whistleblower
Education (N=4)	4.3	Steal cash, cheque forgery, payroll fraud, kickbacks	Analytical review, and/or discussion with management
Electricity, Gas, and Water Supply (N=3)	3.2	Product theft	Whistleblower
Construction (N=3)	3.2	Steal cash	Internal audit, reconciliations
Wholesale Trade (N=2)	2.1	Cheque forgery, wrong expense claim	Analytical and/or management review
Mining (N=2)	2.1	Product theft	Internal audit and management review and whistleblower
Agriculture, Forestry and Fishing (N=1)	1.3	Wrong expense claim	Tests of controls, and/or discussions with management

Table 7 also shows that management review and/or tests of controls was the audit procedure most likely to detect employee fraud. However in Loebbecke et al. it was substantive testing.

The next question addressed by the data analysis was the relationship, if any, between a company lacking both an effective internal control system and a code of conduct and whether the employee fraud had a material impact on the accounts (see

Table 8).

Table 8:Industries Involved in Employee Fraud by Ineffective Internal Controls,
Without a Code of Conduct and the Employee Fraud Having a Material
Financial Impact on the Accounts

Industry	With ineffective internal control		Without a code of conduct		Material impact on Accounts	
	%	N	%	N	%	N
No industry designation (N=7)	71	. 5	71	5	28	2
Agriculture Forestry and Fishing (N=1)	100	1	100	1	100	1
Mining (N=2)	50_	11	50	1	0_	0
Manufacturing (N=20)	_65	13	50	10	25	5
Electricity, Gas and Water Supply (N=3)	66	2	33	1	0	0
Construction (N=3)	100	3_	100	3	100	3
Wholesale Trade (N=2)	100	. 2	50	1	50	1.
Retail Trade (N=5)	100	5	<u>8</u> 0	4_	20	1
Accommodation, Cafes and Restaurants (N=5)	80	4	40	2	60	3
Transport and Storage (N=4)	25	_1_	50	2	0_	0_
Communication Services (N=4)	50	2	75	3	0	0_
Finance and Insurance (N=10)	60	6	66	4	10	1
Government Administration and Defence (N=12)	92	11	71	10	16	2
Education (N=4)	50	2	50	2	0	0
Health and Community Services (N=6)	66	4	50	3_	0	0
Personal and Other Services (N=5)	80	4	60	3	0	0

Spearman's rank correlation coefficient tests carried out yielded a statistically significant relationship between having an ineffective internal control system and lacking a code of conduct (p = 0.000) as well between having an ineffective internal control system and the employee fraud impacting materially on the accounts (p = 0.001). Having no code of conduct was also positively related to whether the

employee fraud impacted materially on the accounts (p = 0.008). The following industries exemplify the relationships found: manufacturing, accommodation, government administration and defence. A number of government departments (government administration and defence; health and community services; education) appear to be prone to employee fraud and to be lacking an effective system of internal control and a code of conduct to a significant degree.

## 3.1.4 Other illegal acts

Other illegal acts refers to "acts which involve non-compliance with laws and regulations which may, or may not result in misstatements including omissions of amounts or other disclosures from an entity's accounting records or financial reports" (AUS 210, AARF, 1995a, para. 05). This was the third highest irregularity (N=143) encountered by the participating auditors comprising 19% of the total 768 irregularities reported in the survey. The respondents provided detailed information on 31 (21.6%) other illegal acts.

It can be seen that the most common illegal act encountered by the respondents was non-compliance with accounting standards, followed by breach of security and insurance industry regulations.

Table 9: Types of Other Illegal Acts Encountered

Types of other illegal acts	Number Of cases	% of cases
Non-compliance with accounting standards	14	45.1
Breach of security and insurance industry regulations	9	29.3
Fictitious stock and invoices	2	6.4
Lending on false information	1	3.2
Trust accounts regulations altered	1	3.2
Non lodgement of ASC documents	1	3.2
Money laudering	1	3.2
Non-maintenance of statutory registers	1	3.2
Other	1	3.2
Total	31	1,00%

Table 10: Type of Industry by Other Illegal Acts and Ways of Being Alerted

Industry	% of other illegal acts	Types of other illegal acts committed	Main ways of being Alerted
Finance and Insurance (N=10)	32.3	Non compliance with accounting standards and breach of securities and insurance industries legislation	Audit tests of balances and/or statutory records review and/or tests of controls and substantive testing
Manufacturing (N=5)	16.2	Non compliance with accounting standards	Substantive and/or tests of controls
Property and Business Services(N=4)	12.9	Breach of securities and insurance industries legislation	Audit tests of balances
Health and Community Services (N=3)	9.6	Non compliance with accounting standards and breach of securities and industries legislation	Test of controls and substantive testing
No industry (N=3)	9.6	Non compliance with accounting standards, fictitious stock, non maintenance of records	Substantive testing and statutory records review
Wholesale Trade (N=2)	6.5	Non compliance with accounting standards	Statutory records and review
Communication Services (N=2)	6.3	Non lodgement of ASC documents	Statutory records review
Retail Trade (N=1)	3.3	Non compliance with accounting standards	Statutory records review
Personal Services (N=1)	3.3	Trust account violations	After balance date review

As shown in Table 10, finance and insurance accounts for the largest proportion (32%) of other illegal acts encountered, followed by manufacturing (16%). Auditors were alerted to the existence of other illegal acts (most often non-compliance with

accounting standards) mainly by substantive testing and/or a statutory records review. As with the previous two types of irregularities, there does not appear to be a clear relationship between ways of being alerted and industry designation or type of other illegal acts.

Data analysis also addressed the question of whether there were adequate internal controls in place and a code of conduct as well as whether the other illegal acts had a material impact on the accounts.

Table 11: Industries Involved in Other Illegal Acts by Ineffective Internal Controls, Without a Code of Conduct, and the Other Illegal Acts Having a Material Financial Impact on the Accounts

Industry	With ineffective internal control		Without a code of conduct		Material impact on Accounts	
	%	N	%	N_	%	N
No industry designation (N=3)	. 66	_2_	66	2	_66	2
Retail Trade (N=1)	100	1	_0_	0	0	0
Manufacturing (N=5)	60	_3_	60	3	20	1
Wholesale Trade (N=2)	100	_2	100	2	100	2
Communication Services (N=2)	100	2	50	1	0	0
Finance and Insurance (N=10)	30	3	50	5	30	3
Property and Business Services (N=4)	50	2	75	3	50	2
Health and Community Services (N=3)	100	3	33	1	33	1
Personal and Other Services (N=1)	100	1_	100	. 1	0	0_

In view of the small number of cases per industry in Table 11, any conclusions drawn need to be treated with caution. Spearman's rank correlation coefficient tests carried out found a significant relationship between an industry category (finance and insurance and property and business services) without a code of conduct and the other illegal acts having a material impact on the accounts (p = 0.005).

#### 3.1.5 Other acts

Other acts are defined in AUS 210 (AARF, 1995a, para. 05) as acts "which contravene the constitution of an entity including non-compliance with trust deeds or memorandum and articles of association". The respondents reported having come across within the last five years a total of 32 other acts within the last five years (comprising 4.1% of the irregularities reported in the survey) provided information for about 15 (46.8%) of them.

Table 12: Types of Other Acts Encountered

Types of other acts	Number of cases	% of cases
Non compliance with trust deed	6	40
Non compliance with memorandum and articles	3	20
Incorrect accounting treatment	2	13
Non compliance with applicable legislation	2	13
Unintentional non compliance with trust deed	1	7
Other	1	7
Total	15	1.00%

Table 13: Type of Industry by Type of Other Acts and Ways of Being Alerted

Industry	% of other acts	Types of other acts committed	Main ways of being alerted
No industry (N=6)	19	Non compliance with trust account, non compliance with memorandum and articles of association, unintentional non compliance with trust deed	Review of records and/or financial statement review
Finance and Insurance (N=5)	16	Non-compliance with memorandum and articles	Audit procedures: solicitor's representations and checklist
Mining (N=1)	3	Non compliance with memorandum and articles	Audit procedures: solicitor's representation and checklist
Manufacturing (N=1)	3	Non compliance with legislation	Review of financial statements and records
Retail Trade (N=1)	3	Non compliance with trust deed	Review of records
Government Administration and Defence (N=1)	3	Non compliance with legislation	Financial statement review

Table 13 shows that companies in the no industry category (which for the purpose of Table 13 comprised mainly trusts and fund management and finance and insurance industry) accounted for 11 out of the 15 other acts encountered. In view of the main types of other acts in Table 13, it is to be expected that trusts and fund management

would have a high incidence of such acts. In the main (in three of the six industries), auditors were alerted to other acts as a result of a review of records.

Table 14: Industries Involved in Other Acts by Ineffective Internal Controls, Without a Code of Conduct and the Other Acts Having a Material Financial Impact on the Accounts

Industry	With ineffective internal control		Without a		Material impact on accounts		
	%	N	%	N N	%	N	
No industry designation (N=6)	50	3	16	1	16	1	
Mining (N=1)	0	" <b>0</b>	100	1	0	0	
Manufacturing (N=1)	0	0	0	0	0	0	
Retail Trade (N=1)	100	1	0	0	0	0	
Government Administration and Defence (N=1)	0	0	0	0	0	0	
Finance and Insurance (N=5)	80	4	40	2	80	4	

Statistical analysis of the relationship between the three factors shown in Table 14 found a significant relationship between a company belonging to a particular industry category lacking a code of conduct and an effective internal control system and the other acts having a material impact on the accounts (p = 0.005 and p = 0.06 respectively). The statistical relationships found, however, should be treated with caution due to the small sample size.

# 3.1.6 Intentional but not fraudulent or other illegal misstatements

Intentional but not fraudulent or other illegal misstatements are acts "which include omissions of amounts or other disclosures from an entity's accounting records or financial reports" AUS 210 (AARF, 1995a, para.05). The auditors participating in the survey had come across 52 such irregularities, comprising 6.7% of the total irregularities encountered. Respondents provided information on 26 (50%) cases. Caution is, therefore, warranted in interpreting the figures given below due to small numbers in each industry category. Table 15 shows that the most common intentional but not fraudulent or other illegal misstatement is "Accounts did not add up", followed by overstatement of debtors.

Table 15: Types of Intentional but not Fraudulent or Other Illegal Misstatements Encountered

Types of intentional but not fraudulent or other illegal misstatements	Number of cases	% of cases
Accounts did not add up	5	19.2
Overstatement of debtors	4	15.4
Balance date window dressing	3	11.5
Falsifying items	3	11.5
Other errors	. 3	11.5
Non disclosure_	2	7.7
Understatement of provisions	2	7.7
Non disclosure of contigent liabilities	2	7.7
Recognising sale in the wrong period	1	3.9
Unintentional omissions from the Financial Statements	1	3.9
Total	26	100%

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Table 16 also shows that companies in the "No Industry" designation made up the biggest share of intentional but not fraudulent or other illegal misstatements (38.4%), followed by manufacturing (30.7%).

Table 16: Type of Industry by Type of Intentional but Not Fraudulent or Other Illegal Misstatements, and Ways of Being Alerted

Industry	% of other illegal acts	Types of other illegal acts committed	Main ways of being alerted
No industry (N=10)	38.4	Accounts did not add up; non disclosure of contingent liabilities	Review of financial statements and/or knowledge of client
Manufacturing (N=8)	30.7	Overstatement of debtors; accounts did not add up; understatement of provisions; falsifying items	Review of financial statements and records and/or knowledge of client and/or cut off tests
Retail Trade (N=2)	7.7	Overstatement of debtors	Review of financial statements and records
Finance and Insurance (N=2)	7.7	Balance date window dressing; unintentional omissions	Review of financial statements and/or review of records
Construction (N=1)	3.9	Balance date window dressing	Review of accounting records
Government Administration and Defence (N=1)	3.9	Accounts did not add up	Review of financial statements and knowledge of client
Health and Community Services (N=1)	3.9	Falsifying items	Review of financial statements and/or cut off tests
Agriculture (N=1)	3.8	Accounts did not add up	Review of financial statements and/or knowledge of client

As shown in Table 16, a review of financial statements and/or accounting records is the audit procedure most likely to identify the various types of intentional but not fraudulent or other illegal misstatements in the industries concerned.

Table 17: Industries Involved in Intentional but not Fraudulent or Other Illegal
Misstatements by Ineffective Internal Controls, Without a Code of
Conduct and the Intentional but not Fraudulent or Other Illegal
Misstatements Having a Material Financial Impact on the Accounts

Industry	With in effective Internal control		Without a condu		Material impact on Accounts	
	%	<u> </u>	%	N	%	N
No industry designation (N=10)	20	2	.50	5	60	6
Agriculture Forestry and Fishing (N=1)	100	1	100	l	0	0
Manufacturing (N=8)	50	4	37	3	37	3
Construction (N=1)	100	11	100	1	100	1
Retail Trade (N=2)	50		0	0	50	1
Finance and Insurance (N=2)	50	1	0	0	50	1
Government Administration and Defence (N=1)	100	1	100	ţ	100	1
Health and Community Services (N=1)	100	1	0	0	0	0

Spearman's rank correlation coefficient tests carried out reveal that the intentional but not fraudulent or other illegal misstatements have a material impact on the accounts of those industry-category companies which lacked a code of conduct (p = 0.001).

#### 3.1.7 Errors

AUS 210, para. 05 (AARF, 1995a) defines errors as "unintentional mistakes in, or omissions of amounts or other disclosures from financial reports". The respondents provided information on 48 incidents of errors (6.25% of the total irregularities) they had encountered in the last five years. Where possible, the findings obtained about errors will be compared with similar findings reported by Entwistle and Lindsay (1994) and Sender and Moray (1991).

Table 18: Types of Errors Encountered

Types of errors	Number of cases	% of Cases
Financial statement errors	13	27.1
Omitting creditors	8	16.6
Omitting disclosure	5	10.4
Related party transaction errors	5	10.4
Non compliance with new AAS	4	8.3
Understatement of creditors' accounts	3	6.4
Understatement of doubtful debts	3	6.4
Overstatement of stock	3	6.4
Overstatement of sales	22	4.0
Mistakes in estimates	2	4.0
Total	48	100%

Table 18 shows that the most common type of errors are financial statement errors, related party transaction errors, and omitting creditors. Cross-tabulating the type of error by industry (see Table 19) found that the companies that mainly fell into the "No industry" category (i.e., unit trusts, fund management, marketing and electronics) accounted for most of the errors, followed by manufacturing.

Table 19: Type of Industry by Type of Error and Ways of Being Alerted

Industry	% of Error	Type of errors committed	Main ways of being alerted
No industry (N=26)	54.2	Financial statement errors; omitted creditors; omitted disclosure; related party; understatement of doubtful debts; non compliance with new Australian Accounting standards	Review of financial statements and records and/or review of debtors and/or detail review and analysis
Manufacturing (N=11)	22.9	Financial statement errors; related party; mistakes in estimates; omitting creditors; non compliance with new accounting standards	Review of financial statements, and/or detail review and analysis
Finance and Insurance (N=4)	8.3	Overstatement of sales; understatement of doubtful debts and financial statement errors	Review of aged trial balance and/or cut off tests and/or detail review
Construction (N=2)	4.1	Omitting disclosure	Review of financial statements
Electricity, Gas and Water Supply (N≈1)	2.1	Financial statement errors	Review of financial statements and/or detail review and analysis
Agriculture (N=1)	2.1	Related party	Review of financial statements
Retail Trade (N=1)	2.1	Financial statement errors	Review of financial statements and/or detail review and analysis
Accommodation Cafes and Restaurants (N=1)	2.1	Financial statement errors	Review of financial statements and/or detail review and analysis
Personal and Other Services (N=1)	2.1	Overstatement of sales	Review of financial statements and cut off tests

Auditors were most frequently alerted to the existence of errors as a result of a review of financial statements, followed by detailed review and analysis of accounts.

Table 20 shows that there is no clear relationship between the different audit procedures which alerted the auditor and type of error or type of industry.

Table 20: Industries Involved in Committing Errors by Ineffective Internal Controls, Without a Code of Conduct, and the Error Having a Material Financial Impact on the Accounts

Industry	With ine internal		Without of con		Material oi Acco	٠ ·
	%	N	%	N	%	N
No industry designation (N=26)	15	4	12	3	15	4
Agriculture (N=1)	0	0	0	0	0	0
Manufacturing (N=11)	27	3	36	4	9	1
Electricity, Gas and Water Supply (N=1)	100	1	100	1	100	1
Construction (N=2)	0	0	0	0	50	1
Retail Trade (N=1)	0	0	0	0	0	0
Accommodation, Cafes and Restaurants (N=1)	0	0	0	0	0	0
Finance and Insurance (N=4)	100	4	75	3	75	3
Personal and Other Services (N=1)	100	1	100	i	100	1

Spearman's rank correlation coefficient tests on the figures in Table 20 found a significant relationship between a company having an ineffective internal control system and lacking a code of conduct (p = 0.05) and an ineffective internal control system and the error impacting materially on the accounts (p = 0.006).

Entwistle and Lindsay (1994) concentrated on "large dollar-value misstatements and found them to be concentrated in relatively few accounts and to have arisen primarily from judgement error or biases". They also suggest that non-recurring transactions such as cut-offs are more risky than recurring ones as far as errors made in financial statements are concerned. Entwistle and Lindsay found manufacturing to be an error-prone industry with cut-off errors, and judgement errors or mechanical errors being the main types. The present study found that the most frequently reported errors were financial statement errors, or errors regarding related party transactions. The auditors surveyed did not state how those errors were committed and whether, for example, they were cut-off errors. Whilst substantive testing was the main procedure signalling these errors in Entwistle and Lindsay's Canadian study, in the present study it was client knowledge and review of financial statements.

Summarising the findings, Table 21 shows the relationship between a company having an ineffective system of internal control and lacking a code of conduct and an irregularity having a material impact on the accounts of a company.

Table 21: Type of Irregularity and the Relationship Between Ineffective Internal Controls, Without a Code of Conduct and the Irregularity Having a Material Financial Impact on the Accounts

	Without a code of conduct		Material impact on account	
Ineffective internal control	Management fraud Employee fraud Error	(p=.000) (p=.000) (p=.005)	Management Fraud Employee Fraud Other illegal acts Error	(p=.000) (p=.000) (p=.053) (p=.060)
Without a code of conduct			Management fraud Employee fraud Intentional acts Other illegal acts Intentional but not fraud or other illegal misstate	

Two of the company characteristics in the ROP model are lack of adequate control procedures that prevent fraud and lack of code of conduct. The ROP model is an integral part of the eclectic fraud detection model proposed. In support of the eclectic fraud detection model, it can be seen that there is a significant probability of companies that have an ineffective internal control system and without a code of conduct, experiencing management and employee fraud and error. Furthermore, in those companies with an ineffective internal control system the management fraud, employee fraud, other illegal acts and errors impacted materially on the accounts. Finally, in those companies lacking a code of corporate conduct, the management fraud, employee fraud, other illegal acts, and other illegal misstatements had a material impact on the accounts.

Table 22: Patterns in Auditors' Detection of Different Irregularities

Type of Irregularity	Industry(ies) with high incidence of irregularity	The form(s) it is likely to take	Audit procedure(s) likely to alert auditors to irregularity existence	Statistically significant correlates of the irregularity impacting materially on company's accounts
Manage- ment fraud	Manufacturing, Trusts and Fund Management, Construction	Mis- Appropriation of funds; window dressing	Management review and/or tests of controls	Lack of offective internal control system, absence of a code of conduct
Employee fraud	Manufacturing, Government Administration and Defence, Finance and Insurance	Expenses recorded incorrectly	Management review and/or tests of controls	Lack of effective internal control system, absence of code of conduct
Other illegal acts	Finance and Insurance, Manufacturing	Non-compliance with accounting standards, breach of security and insurance industry regulations	Substantive testing and/statutory records review	Absence of a code of conduct
Other acts	Trusts and Fund Management, Finance and Insurance	Non-compliance with trust accounts	Review of records	Lack of offective internal control system, absence of a code of conduct
Other Illegal Misstate- ments	Trusts and Fund Management, Manufacturing	Accounts did not add up	Review of financial statements and/or review of accounting records	Absence of a code of conduct
Errors	Trusts and Fund Management, no industry category, Manufacturing	Financial statement errors	Review of financial statements	Lack of effective internal control system, absence of a code of conduct

Table 22 shows the patterns identified in auditors' detection of the six types of irregularities. Irregularity-prone companies are characterised by a lack of an effective internal control system and the absence of a code of conduct. This finding is not surprising when we remember that 76% of the companies where management fraud had occurred had ineffective internal controls and 64% lacked a code of conduct. Similarly, of the companies where employee fraud occurred 65% had ineffective internal controls and 56% lacked a code of conduct. As already indicated, these two company characteristics are significantly correlated. Furthermore, the material impact of these deficiencies on the accounts is pervasive. These findings provide support for the eclectic fraud detection model and attest to the importance of auditors carrying out further tests if they are auditing a company with an ineffective internal control system and lacking a code of conduct. The survey results suggest that these two characteristics point to a higher probability that a material irregularity in the accounts exists. This finding is in agreement with the conclusion reached in the KPMG (1995a) survey that any steps taken by companies to reduce the possibility of an irregularity (including fraud) that will impact materially on the accounts must include improvement in internal control systems and the implementation of a code of conduct.

### 4.0 CONSIDERATION OF LOEBBECKE'S ASSESSMENT MODEL.

### 4.1 Usefulness of red flags

Part II of the survey addressed the usefulness of red flags in detecting material

irregularities. Participants were asked to indicate how useful a list of red flags had been to them concerning a material irregularity they had encountered in the last 12 months. More specifically, the respondents were asked whether a red flag had been (1) applicable to the engagement, (2) relevant to the irregularity; and (3) whether it had alerted them during the planning phase. It should be noted here that a small number of respondents indicated that a particular red flag (see below) was relevant to the irregularity but did not also indicate that it was applicable to the engagement, as one would expect. It is for this reason that the figures in the columns 'Relevant...' and 'Applicable...' in a number of Tables below is not consistent. Part II of the questionnaire was completed by 87 participants. As indicated in Chapter 3, and this is borne out by the findings reported below, red flags are of doubtful usefulness if used on their own to detect fraud. Tables 23-30 address the usefulness of eight categories of red flags in detecting irregularities listed in Appendices 1 and 2 of AUS210 (AARF, 1995a). Using aggregate figures and not distinguishing between the different fraud indicator categories, Tables 23-30 examine whether the auditor was alerted during the planning stage to the possible existence of a particular irregularity by a red flag he/she considered applicable to the engagement and/or relevant to the irregularity.

Table 23: Business Environment

Business Environment	(Red Flag) Applicable to the engagement N=87	(Red Flag) Relevant to the irregularity N = 87	(Red Flag) Alerted me during the planning phase N = 87
Nature of the business is susceptible to misappropriation	29	24	8
Unduly influential circumstances	14	16	5
Pressure to meet forecasts	13	11	11
Weak management integrity	19	29	6
Ineffective/non-existent regulation by external parties	6	10	2
Survival of company dependant on irregularity(ies)	2	5	3
Ineffective or non-existent code of conduct	15	ر <sub>"،</sub> 14	3
Transactions with related parties not at arm's length	7	10	3
Unusual transactions with companies registered in tax havens	1	2	<u>-</u>
Liquidity pressure	10	6	
Total	116	127	31

Table 23 shows the following four business environment fraud indicators feature to a significant degree as both applicable to the engagement and relevant to the irregularity: nature of the business is susceptible to misappropriation; weak management integrity; and unduly influential circumstances; and ineffective or non-existent code of conduct. Despite this, only a minority of those indicators alerted the auditor during the planning stage to the existence of the irregularity.

Table 24: Internal Control

Internal Control Structure	(Red Flag) Applicable to the engagement N = 87	(Red Flag) Relevant to the irregularity N = 87	(Red Flag) Alerted me during the planning phase N = 87
Organisation is decentralised without adequate monitoring	18	24	9
Management override	25	33	13
Ineffective management	17	24	6
Lack of segregation of duties	25	42	13
Weak internal controls	21	32	11
Excessive authority vested in a senior officer	26	32	7
Poor systems	16	23	7
Ineffective internal audit	21	14	4
Total	169	224	70

Auditing standards<sup>10</sup> emphasise the importance of internal controls. However, Table 24 shows that the auditors did not, in fact, pay particular attention to serious weaknesses in internal controls. Consequently, less than half of those indicators alerted them at the planning stage to the existence of an irregularity, despite the fact that they were relevant to the irregularity.

<sup>10</sup> See AUS402 (AARF, 1995b). The criminogenic nature of weak internal controls was confirmed by the successful test of the ROP model in the MFG study.

Table 25: Integrity/Competence of Management

Integrity/Competence of Management	(Red Flag) Applicable to the engagement N = 87	(Red Flag) Relevant to the irregularity N = 87	(Red Flog) Alerted me during the planning phase N = 87
Domineering management	21	23	7
Complex corporate structure	5	2	1
Continuing failure to correct internal control weaknesses	17	17	5
High executive staff turnover	2	5	2
Significant/prolonged under-staffing of the accounting department	8	5	2
Frequent changes of lawyers	_	•	
The client has engaged in opinion shopping		ī	2
The auditor's experience with management indicates a degree of dishonesty	7	9	4
Internal audit is improperly staffed	8		6
Total	68	70	29

The only two indicators pointing to a concern about the integrity/competence of management were domineering management and continuing failure to correct internal control weaknesses. The auditors' apparent insensitivity to the presence of the other 7 indicators largely explains the finding in Table 25 that they were alerted at the planning stage to the existence of an irregularity to a limited degree. Support of the finding that indicators of management integrity/competence are not effective red flags was reported by Bernardi (1994a). Pincus (1994, 1990), however, reported

a contradictory finding on the same issue.

Table 26: Unusual Pressures Within an Entity

Unusual Pressures within an entity	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the Irregularity	(Red Fiag) Alerted me during the planning phase
	N = 87	N = 87	N = 87
Inadequate working capital	10	6	7
Deteriorating quality of earnings	11	11	4
A need for a rising profit	10	8	5
A significant investment in an industry noted for rapid change	6	7	3
Entity heavily dependent on a product or a customer	4	7	2
Management displays an overly aggressive attitude toward financial reporting and forecasts	11	10	5
Pressure exerted on accounting personnel to complete financial reports in unusually short periods	3	3	•
Total	55	52	26

It can be seen in Table 26 that only two out of the seven indicators of unusual pressures within an entity (Deteriorating quality of earnings, Pressure exerted on accounting personnel to complete financial reports in unusually short periods) were considered applicable to the engagement and relevant to irregularity. It should, also be noted however, that with most of the other indicators there is an average match of 74%, i.e., in most cases they were both applicable and relevant. Suprisingly,

however, only half of the indicators listed alerted the auditor at the planning stage to the existence of an irregularity.

Table 27: Unusual Occurrences/Transaction

Unusual Occurrences/Transactions	(Red Flag) Applicable to the engagement N = 87	(Red Flag) Relevant to the Irregularity N = 87	(Red Flag) Alerted me during the planning phase N = 87
Unusual balance date transactions	13	12	2
Payments for services that appear excessive in relation to services provided	4	13	2
Payments for goods which appear to be above/below market price	5	12	3
Evidence of falsified documents	8	31	2
Large cash payments	4	12	2
Payments made to local or overseas officials	2	2	-
Problems with regulatory authorities	-	2	-
Ignored advice by legal adviser	-	2	-
Evidence of unduly lavish styles by officers or employees	4	14	2
Investigations by police	2	2	1
Total	42	102	14

Table 27 shows that, even such crucial information concerning evidence of falsified documents that was relevant to the irregularity, did not alert the auditors to the irregularity concerned at the planning phase. The same is also true, for example, of

unusual balance date transactions and evidence of unduly lavish lifestyles by company or employees. The auditors concerned, do not appear to have been aware of the importance of such indicators and/or to have been vigilant about their importance.

Table 28: Unsatisfactory Records/Problems in Obtaining Sufficient Appropriate
Audit Evidence

Unsatisfactory Records/Problems in Obtaining Sufficient Appropriate Audit Evidence	(Red Flag) Applicable to the engagement  N = 87	(Red Fiag) Relevant to the irregularity N = 87	(Red Flag) Alerted me during the planning phase N = 87
Inadequate accounting records	16	19	4
Ілядеquate documentation	14	29_	8
Excessive number of differences between accounting records and third party confirmations	11	18	2
Evasive, unreasonable or unsatisfactory responses by management to inquiries	20	20	7
New client without sufficient information from predecessor auditor	6	4	2
Conflicting audit evidence and inexplicable changes in operating ratios.	7	8	2
Significantly fewer responses to confirmation requests than expected	3	5	2
Total	77	103	27

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The auditors' lack of vigilance at the planning stage is further evidenced in Table 28. It can be seen that they failed to be alerted to the irregularity in question by: evasive, unreasonable or unsatisfactory responses by management to their inquiries; inadequate accounting records, inadequate documentation; and excessive number of differences between accounting records and third party confirmations.

Table 29: Market Pressures

Market Pressures	(Red Flag) Applicable to the engagement  N = 87	(Red Flag) Relevant to the irregularity  N = 87	(Red Flag) Alerted me during the planning phase N = 87
Declining industry	4	3	-
Industry subject to complex legislation	2	1	1
Volatile industry with numerous corporate takeovers	1	2	-
Total	7	6	1

Table 29 shows that evidence of a declining industry was overlooked by the respondents at the planning stage even though such evidence would normally justify an auditor to apply more reasonable care and skill by performing additional tests.

Table 30: Factors Relevant to an EDP Environment

Factors Relevant to an EDP Environment	(Red Flag) Applicable to the engagement N = 87	(Red Flag) Relevant to the irregularity N = 87	(Red Flag) Alerted me during the planning phase N = 87
Minimal planning for the installation of new hardware	2	1	1
Inadequate computer skills amongst relevant entity staff	7	5	1
Inappropriate hardware or software to perform important functions	3	2	1
Poor physical or logical access controls	1	2	
Inadequate or inappropriate file access hierarchy	-	1	-
Lack of clear audit trail and transaction log	5	7	-
Hardware failures, including excessive amounts of "down-time" and resultant input backlogs	-	* 8	-
Software failures	<u> </u>		
Failure to restrict access to software and documentation to authorised personnel	2	4	ž
Program changes that are not documented, approved and tested	4	1	, -
Inappropriate data and program storage media	-	-	•
Inadequate detection procedures for system viruses	1	1	-
Inadequate overall balancing of computer transactions and data bases to the financial accounts	1	1	•
Shared or non-specific ownership of data	1	1	11
Total	27	26	44

Examination of Table 30 reveals that the respondents were not alerted to the existence of an irregularity at the planning stage by such important features of the EDP environment as lack of clear audit trail and transaction log as well as inadequate computer skills amongst relevant entity staff, despite the fact that they were both

applicable to the engagement and relevant to the irregularity.

The findings reported in Tables 23-30 show that the following fraud indicators, provided for in the eclectic fraud detection model, featured to a significant degree both as applicable to the engagement and relevant to the irregularity: no code of conduct; weak management integrity; weak internal controls; financial pressure on management in the form of inadequate working capital (declining industry); lack of clear audit trail; and unduly lavish styles by company officers or employees.

Table 31 summarises Tables 23-30 and shows that only a minority of red flags alerted auditors to the existence of a material irregularity. Out of a total of 561 red flags that were considered applicable to the engagement, only 202 (36%) alerted the auditor during the planning phase. Also, even though a total of 710 red flags were relevant to the irregularity only 202 (28.4%) alerted the auditor at the planning phase. In other words, the auditor was not alerted to the possible existence of the irregularity concerned despite the fact that the majority of the red flags were applicable to the engagement and relevant to the irregularity. Red flags belonging to the unusual pressures within an entity, integrity/competence of management, and internal control categories alerted the auditor to the possible existence of a material irregularity to a greater degree at the planning phase than the other categories.

Table 31: Applicability, Relevance and Whether the Auditor was Alerted by Category of Red Flag

Red flag category	Red flag applicable to the engagement	Red flag relevant to the irregularity	Red flag alerted an auditor during the planning phase
Business environment	116	127	31
Internal control	169	224	70
Integrity/Competence of management	68	70	29
Unusual pressures within an entity	55	52	26
Unusual occurrence/transactions	42	102	14
Unsatisfactory records/ problems in obtaining sufficient appropriate audit evidence	77	103	27
Market pressures	7	6	1
Factors relevant to an EDP environment	27	26	4
Total	561	710	202

Taking each of the eight red flag categories separately, Spearman's rank correlation coefficient tests were carried out to examine the relationship, if any, between a red flag being applicable to the engagement, relevant to the irregularity and whether it alerted the auditor during the planning stage. Table 32 shows the results of these tests.

Table 32: The Statistical Relationship Between Applicability and Relevance of Red Flags and Whether the Auditor was Alerted by Them

	Relevant		Alerted	
AP	Business environment	(p=0.001)	Business environment	(p=0.008)
	Integrity/competence		Integrity/competence	
	of management	(p=0.04)	of management	(p=0.002)
	Unusual pressures	(p=0.04)	Unusual pressures	(p=0.01)
	Unusual occurrence/		Unusual occurrence/	
	transaction(p=0.05)		Transaction	(p=0.04)
	Unsatisfactory records	(p=0.03)	Unsatisfactory records	(p=0.04)
	Factors relevant to an EDP			
	environment	(p=0.01)		
	Internal control	NS	Internal control	NS
REL			Business environment	(p=0,001)
			Internal control	(p=0.008)
			Integrity/competence of management	(p=0,007)
			Unusual occurrence/	
			transaction	(p=0.03)
			Unsatisfactory records	(p=0.02)

NS= Not statistically significant.

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In interpreting the significance of the relationships depicted in Table 32 it should be noted that no test was possible in the case of one red flag category, namely "market pressures" (declining industry, industry subject to complex legislation, volatile industry with numerous corporate takeovers) due to N=3. Also, as far as "factors relevant to an EDP environment" is concerned, only four examples of that particular red flag were reported as having alerted respondents and, consequently, no correlation test was possible with whether that red flag was applicable to the engagement or relevant to the irregularity. With the exception of internal control (p=0.072), a statistically significant relationship was found between all the remaining five

categories of red flags being considered both applicable to the engagement and relevant to the irregularity and alerting the auditor to the existence of an irregularity. However, it needs to be remembered that the respondents provided the data in hindsight. The following conclusions can be drawn from Table 32:

- i. Deficiencies in internal control did not alert auditors to the existence of an irregularity if those particular red flags were considered relevant to the irregularity, but did so if they were considered applicable to the engagement.
- ii. The red flags pertaining to unusual pressures only alerted the auditors to the existence of an irregularity if they were deemed applicable to the engagement.
- iii. The red flags comprising the "factors relevant to an EDP environment" category only alerted the auditors to the existence of an irregularity if they had been considered applicable to the engagement.

Thus, it appears that the relationship between the applicability and relevance of a red flag and whether the auditor was alerted by it depends on the particular category of red flag.

## 4.2 Testing Loebbecke et al.'s assessment model

Loebbecke and Willingham (1988) contrasted their model with the check list approach and they concluded that it is a logical model designed to internalise the reasoning process to assess the likelihood of material management fraud.

They classified fraud indicators into conditions, motives, and attitudes. These differ slightly from Albrecht et al.'s (1995) and Cressey's (1986) classification as discussed in Chapter 4. As already pointed out in Chapter 5, Loebbecke et al.'s model suffers from one major deficiency: while the definition given of its "attitude" component refers to justifications, rationalizations for committing crime, the list of examples provided by Loebbecke et al. to illustrate this particular concept comprises company characteristics which are examples of opportunity to commit the crime. Therefore, Loebbecke et al.'s attitudes can be included under their conditions component. The Loebbecke et al. model is thus shown to comprise two components for it fails to consider rationalisations.

Using Loebbecke et al.'s Table 9, the red flags in the present study were classified into conditions, motives and attitudes (see Tables 33 and 34 below). It was necessary to distinguish between defalcations and management fraud in order to test the Loebbecke et al. fraud risk assessment model (see Tables 35-36 below).

There were 87 material irregularity cases discussed by the respondents in Part II of



the survey. Using the definition of management fraud and defalcation in Loebbecke et al., it was found that 73 (84%) of them involved management that manipulated the accounts in order to cover up another deception such as theft of cash, theft of equipment etc. and that a minority 14 (16%) involved personnel below management committing theft of cash or kickbacks (i.e., defalcations).

Table 33: Comprehensive Listing of Indicators (Red Flags) Classified by Assessment Component for the Management Fraud Cases (N=73)

Component	Applicable	Relevant	Alerted
Primary Conditions			
Dominated decisions	82	101	30
Major transactions	8	1.8	4
Related party	7	10	3
Weak internal and EDP controls	67	95	31
Difficult to audit transactions	48	59	<u> 16 </u>
Nature of business susceptible to misappropriation	25	20	7
Weak internal audit	26	20	9
Hardware and software failures			
Primary Motivations			· · · · · · · · · · · · · · · · · · ·
Industry Decline	25	23	14
Emphasis on earnings projections	13	11	1
Inadequate profits	9	6	0
Primary Attitude			
Dishonest management	47	85	17
Emphasis on carnings projections *	13	11	1
Personality anomalies	4	14	2
Lies or evasiveness	35	48	10
Failure to correct internal control weakness	15	15	5

Total Primary Indicators (excluding *)	411	525	149
Secondary Conditions			
High management turnover	2	5	2
Decentralised organisation	15	22	8
Assets subject to misappropriation	6	2	1
Inexperienced management	13	19	6
Conflict of interest	5	8	3
Rapid industry change	7	9	3
Understaffed accounting department	7	6	2
Ineffective/ absent external regulation	6	8	2_
Non-existent/ineffective code of contact	14	13	3
Secondary Motivation			
Rapid industry change *	7	9	3
Sensitive operating results	10	8	5
Adverse legal circumstances	4	4	2
Secondary Attitude			
Weak internal and EDP controls *	67	95	31
Poor reputation	6	8	3
Undue pressure on auditor		1	1
Disrespectful attitude		22	
Conflict of interest *	5	8	3
Minimal planning for installation of hardware and software	2	1	1
Inadequate detection procedures for system viruses	]	1	•
Total Secondary indicators (excluding *)	98	117	42
Total Primary and Secondary indicators (excluding *)	509	642	191

<sup>\*</sup>Indicators are present in preceding category. According to Loebbecke (personal communication), it is possible for an indicator to be in more than one category. For example, conflict of interest creates the situation conducive to committing fraud and it also indicates an attitude on the part of person entering into the conflict.

Data analysis also examined whether the indicators were applicable, relevant or alerted the auditor at the planning stage<sup>11</sup> in order to determine the auditor's sensitivity to red flags, as was done by Loebbecke et al.

Table 34: Comprehensive Listing of Indicators (Red Flags) Classified by Assessment Component for the Defalcation Cases (N=14)

Component	Applicable	Relevant	Alerted
Primary Conditions			
Dominated Decisions	4	3	2
Major Transactions		1	
Related Party		<u> </u>	
Weak internal and EDP controls	14	19	3
Difficult to audit transactions	2	. 3	1
Nature of business susceptible to misappropriation	4	4	1
Weak internal audit	3	2	1
Hardware and software failures		-	
Primary Motivations			
Industry Decline	2	2	
Emphasis on earnings projections	0		
Inadequate profits	1		
Primary Attitude			
Dishonest management	4	8	_ •
Emphasis on earnings projections*	0	<u>-</u>	
Personality anomalies			
Lies or evasiveness	3	4	
Failure to correct internal control weakness	2	2	-
Total Primary Indicators (excluding *)	39	48	7

<sup>11</sup> As stated earlier, planning is assumed to be a continuous process.

		<u> </u>	* *
Secondary Canditions			
High management turnover	-		
Decentralised organisation	3	2	1
Assets subject to misappropriation		2	1
Inexperienced management	4	5	
Conflict of interest			-
Rapid industry change	-	<u>-</u> <del>-</del> .	
Understaffed accounting department	4	2	
Ineffective/ absent external regulation	<u> </u>	2	•
Non-existent/ineffective code of contact	1	1	-
Secondary Motivation			
Rapid industry change *	<del>,</del>		
Sensitive operating results	-		
Adverse legal circumstances	-	11	
Secondary Attitude			
Weak internal and EDP controls *	14	19	3
Poor reputation	. 1	1	1
Undue pressure on auditor			i
Disrespectful attitude			
Conflict of interest *	-	4	
Minimal planning for installation of hardware and software	-	<b>-</b>	-
Inadequate detection procedures for system viruses	-	-	· \ \ · ·
Total Secondary indicators (excluding *)	13	<b>20</b>	4
Total Primary and Secondary indicators (excluding *)	52	68	11

<sup>\*</sup>Indicators are present in preceding category.

It is evident from Tables 33 and 34 that auditors were somewhat insensitive to the red flags when distinguishing between management and defalcation cases. For the

management fraud cases there were 642 fraud indicators which were relevant and 509 which were applicable to the 73 management fraud cases but only 191 (29.8%) and 37.5% respectively alerted the auditors at the planning stage. Similarly, for the defalcation cases there were 68 relevant and 52 applicable fraud indicators but only 17% and 21.1% respectively alerted the auditors at the planning stage. If auditors are not paying due attention to these indicators at the planning stage where the risk assessment is determined, it is a cause for concern. In support of these findings, Loebbecke et al., too, found that their model performed significantly poorer for defalcations than for management fraud (p.25).

Tables 35 and 36 provide an analysis of Loebbecke et al.'s assessment model for both management fraud and defalcation cases respectively and its applicability in the 87 material irregularity cases reported by the auditors in the survey. The second and third columns indicate the number and percentage of cases of material irregularity where the indicator was applicable to the engagement<sup>12</sup>. The fourth column shows the number of these cases where the indicator was relevant to the irregularity. The fifth column shows the percent of cases where pursuing that particular indicator would not have directed the auditor to the fraud (i.e., Type I error %). The sixth column gives the number of cases where the indicator was applicable, relevant, and also alerted the auditor during planning. The final column indicates the percent of

<sup>12</sup> No % is provided for the columns Applicable and Relevant, and Applicable Relevant and Aleried so that the

cases where the indicator was applicable and relevant, but would have been missed by the auditor during the planning because it did not alert him/her (i.e., Type II error %).

Table 35: Analysis of Applicability, Relevance and Whether the Auditors Were Alerted by the Indicators for the 73 Management Frauds Described by Them

Primary Indicators	AP	%	AP & REL	Type I Error %	AP, REL, & AL	Type II Error %
Conditions						
Dominated decisions	82	11213	82	0.0	30	63.0
Major transactions	8	10.9	8	0.0	4	50.0
Related party	7	9.6	. 7	0.0	3	57.1
Weak internal and EDP Controls	67	91.8	67	0.0	4	94.0
Difficult to audit transactions	48	65.8	48	0.0	16	66.6
Nature of business vulnerable to misappropriation	25	34.2	20	20.0	7	6.0
Weak internal audit	26	35.6	20	23,0	9	55
Hardware and software failures	0	0	0	0	0	0
Total	263	44.9	252	4.2	<b>Z</b> 3	7.1.0
Motivation						
Industry decline	25	34.2	23	8.0	14	39.1
Emphasis on earnings projections	13	17.8	11	15.4	1	90.9
Inadequate profits	9	12.3	6	33.3	0	10.0

figures for Type 1 and Type II error respectively can be expressed as a %, as done by Loebbecke et al. (1989). 13 The reason there is more than 100% in some conditions is because each condition includes more than one red flag and in some cases more than one red flag per case was applicable.

					· ·	
Total	47	21.4	40	14.9	15	62.5
Attitude				<u> </u>		
Dishonest management	47	64.4	47	0	17	63.8
Emphasis on earnings projections *	13	17.8	11	15.3	1	90.9
Personality anomalies	4	5,5	4	0	2	50.0
Lies or evasiveness	35	47.9	35	0	10	71.4
Failure to correct internal control weakness	15	20.5	15	0	5	66.6
Total	1.14	31.2	1.12	1_8	35	68.8
Total Primary Indicators (excluding *)	41.1	37.4	393	4.4	1.23	68 <u>.7</u>
Secondary Indicators						v
Conditions						
High management turnover	2	2.7	2	0	2	0
Decentralised organisation	15	20.5	15	0	8	46.6
Assets subject to mis- appropriation	6	8.2	2	66.6	1	50.0
Inexperienced management	13	17.8	13	0	6	53.8
Conflict of interest	5	6.8	5	0	3	40.0
Rapid industry change	7	9.6	7	0	3	57.1
Understaffed accounting department	7	9.6	6	14.2	2	66.6
Ineffective/absent external regulation	6	8.2	<sub>0</sub> 6	0 🖔	2	66.6

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Non- existent/ineffective code of contact	14	19.1	13	7.1	3	76.9
Total	75	11.4	69	8.0	30	56.5
Motivation						
Rapid industry change *	7	9.6	7	0	3	57.1
Sensitive operating results	10	13.7	8	20,0	5	37.5
Adverse legal circumstances	4	5.5	4	0	2	50.0
Total	21.	9.6	19	9.5	10	47.4
<u>Attitude</u>				<u></u>	# Jun 1	
Weak internal and EDP controls *	67	91.8	67	0.0	4	94.0
Poor reputation	6	8.2	6	0	3	50.0
Undue pressure on auditor	0	0	0	0	0	0
Disrespectful attitude	0	0	0	0	0	0
Conflict of interest	5	6.8	5	0	3	40.0
Minimal planning for installation of hardware and software	2	2.7	1	50.0	1	0
Inadequate detection procedures for system viruses	1	1.4		0	0	0
Total	81	15.8	80	1.2	11	86.3
Total Secondary Indicators (excluding *)	9.8	8.4	89	9.2	41	53.9
Total Primary and Secondary Indicators (excluding *)	203	22.5	482	5.3	164	65.9

<sup>\*</sup>Indicators are present in preceding category

Table 36: Analysis of Applicability, Relevance and Whether the Auditors Were Alerted by the Indicators for the 14 Defalcations Described by Them

Primary Indicators	AP	%	AP & REL	Type 1 Error %	AP, REL, & AL	Type II Error %
Conditions						
Dominated decisions	4	28.6	3	25	2	33.3
Major transactions	0	0	0	0	0	0
Related party	0	0	0	0	0	0
Weak internal and EDP Controls	14	100	14	0	3	78.5
Difficult to audit transactions	2	14.3	2	0	0	100
Nature of business vulnerable to misappropriation	4	28.6	4	0	1	75.0
Weak internal audit	3	21.4	2	33.3	1	50,0
Hardware and software failures	0	0	0	0	0	0
Total	27	<u>24,1</u>	<u>25</u>	7.4	7	72.0
Motivation						
Industry decline	2	14.3	2	0	0	100
Emphasis on earnings projections	0	0	0	0	0	0
Inadequate profits	1	7.1	0	100	0	0
Total	3	11.9	2	33,3	Ö	100
Attitude					<u> </u>	
Dishonest management	4	28.6	4	0	0	100
Emphasis on earnings projections *	2	14.3	0	100	0	0
Personality anomalies	0	0	0	0_	0	0
Lies or evasiveness	3	21.4	3	0	0	100
Failure to correct internal control weakness	2	14.3	2	0	0	100
Total	11	<u>15.7</u>	9	18.2	0	100
Total Primary Indicators (excluding *)	41	<u>19,5</u>	3,6	12.2	7	80,6

<u></u>					13.	
Secondary Indicators				<u> </u>	- 1, 194	
_Canditions					Maria de la	
High management turnover	0	0	0	- 0	0.	0
Decentralised organisation	3	21.4	2	33.3		50.0
Assets subject to misappropriation	0	0	0	0	0	0
Inexperienced management	4	28.6	4	0	0	100
Conflict of interest	0	_0_	0	0	+ 0	0
Rapid industry change	0	0	0_	0	0	0_
Understaffed accounting department	4	28.5	2	50	0	100
Ineffective/absent external regulation	. 0	0	0	0	0	0
Non-existent/ineffective code of conduct	1	7.1	1	0	0	100
Total	12	9.5	9	25	1	88.8
Motivation						
Rapid industry change *	0	0	0	0	0	0
Sensitive operating results	0	0	. 0	0	0	0
Adverse legal circumstances	0	0_	0.	0	0	0
Total	0_	0	0	0	0	<u> </u>
<u>Attitu</u> de	l			L		L
Weak internal and EDP controls *	14	100	14	0	3	78.6
Poor reputation	1_	7.1	t	0	1	0
Undue pressure on auditor	0	0_	0	0	0	0
Dîsrespectful attitude	0	0_	0	0	0_	0
Conflict of interest *	0	0	0	0	0	0
Minimal planning for installation of hardware and software	0	0		0	0	0
Inadequate detection procedures for system viruses	0	0	0	0	0	0
Total	.15	<u> 15.3</u>	15	0	4	73.3
Total Secondary Indicators (excluding *)	13	5.8	10	23.1	2	80.0
Total Primary and Secondary Indicators	54	11-9	46	14.8	9	80.4
(excluding *)		<del></del>	<u>.</u>	·-, <del>-</del>	<u></u> .	

## \* Indicators are present in preceding category

Several observations can be made from Tables 35 and 36. As far as the management fraud cases are concerned, two primary indicators that were applicable to the engagement for 112% and 92% of the cases were dominated decisions and weak internal and EDP controls respectively (Loebbecke et al's, equivalent figures are 75% and 90% respectively). Also Tables 35 and 36 reveals that Loebbecke et al.'s model performs better for management fraud than for defalcation cases, thus supporting their findings. Table 37 shows the utility of both primary and secondary indicators in alerting auditors to the existence of management fraud in both surveys.

Table 37: Significance of Primary and Secondary Fraud Indicators in Alerting Auditors to the Existence of Management Fraud (%).

	Primary (present study)	Primary (Loebbecke et al.)	Secondary (present study)	Secondary (Loebbecke et al.)
	%	%	%	%
Applicable	37	40	8	24
Relevant	95	90	90	75
Alerted	31	92	46	94

Primary fraud indicators were apparent to the engagement and relevant to the irregularity to a similar degree as in Loebbecke et al. Yet, at the planning stage, the auditors in the present study were approximately three times less likely to be alerted

to the existence of management fraud by primary indicators; however, they were more likely to be so alerted by secondary factors but still half as likely as the auditors in the Loebbecke et al. study.

In the present study it was found that most of the indicators (both primary and secondary) alerted the auditors to management fraud at least 34% of the time while weak internal and EDP controls did so only 6% of the time. It should be noted in this context that indicators pointing to weak internal controls alerted auditors more to the possible existence of management fraud (as shown in Table 31) than when combined with weak EDP controls. In Loebbecke et al.'s (1989:20-23) study "most of the indicators were apparent to the auditors during the planning at least 90% of the time", while three secondary indicators, namely "conflict of interest, incentive compensation and management's job threatened were lesser exceptions".

Another significant difference between the two studies concerns Type I and Type II errors (see Table 38).

14 See ibid footnote 13.

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Table 38: Type I and Type II Error in the Two Surveys

	Present study (management fraud)	Present study (defalentions)	I.oebbecke et al. (management fraud)	Luchbecke et al. (defatcations)
	%%		<u> %</u>	%
Туре І ептог	5.3	14.8	16.9	23.2
Туре II ептог	65.9	80.4	7.8	17.1

Bearing in mind that Type II error is the converse of Type I error, what this comparison shows is that, in management fraud cases, if the auditors in the present study followed a particular fraud indicator they would not have identified the management fraud in 5.3% of the cases (Type I error), while in 65.9% of the cases where the indicator was applicable and relevant they would have missed it during the planning stage because it did not alert them (Type II error), i.e., they would not have missed it in 34.1%. In defalcation cases, if the auditors in the present study followed a particular fraud indicator, they would not have identified the defalcation in 14.8% while in 80.4% of the cases where the indicator was applicable and relevant they would have missed it because it did not alert them (Type II error), i.e., they would not have missed it in 19.6% of the defalcation cases. Thus, where the indicator was both applicable and relevant the Australian auditors would have identified it in 34.1% of management frauds and 19.6% of defalcations at the planning stage.

The Australian auditors were 3.18 times less likely than those in Loebbecke et al. (1989) to have pursued a particular red flag that would not have directed them to the

management fraud (Type I error). This is attributable to auditors in the present study being 8.4 times less sensitive at the planning stage to fraud indicators that were applicable to the engagement and relevant to the irregularity (Type II error). Similarly, in the defalcation cases the auditors in the present study were 4.7 times less likely to have been alerted by a red flag at the planning stage that was applicable to the engagement and relevant to the irregularity (Type II error). One conclusion that can be drawn from the comparison figures in Table 38 is that Loebbecke et al.'s auditors were characterised by a "play-it-safe" approach in their audit work in assessing the risk of management fraud or a defalcation being present. One possible explanation for the findings is that Australian auditors do not take the same approach to red flags as U.S. auditors. The Australian auditors surveyed appear to exercise significantly less vigilance at the planning stage as far as fraud indicators are concerned in both management fraud and defalcation cases. Such a difference could well be due to the difference in audit experience of the auditors in the two studies and the different litigation environments<sup>15</sup>.

A basic premise of the Loebbecke et al. (1989) fraud-risk assessment model is that all three components must be present for an irregularity to occur. More specifically, they reported that the three components (conditions, motives, and attitudes) were applicable and relevant in 86% of the management fraud cases and 78% were

<sup>15</sup> The participants in Loebbecke et al. (1989) had twice as much audit experience and comprised partners only. The present study included 39% in manager positions and 28% partners. The remaining one-third were seniors (13%), supervisors (12%) and assistant managers (8%) and can be said to have had less audit experience than those surveyed by Loebbecke et al.

applicable, relevant and alerted. This prediction, however, has not been borne out in the present study. Tables 39 and 40 show that in only 22% of the management fraud cases were all three components applicable and relevant and in only 8% of the cases were all three components applicable, relevant, and alerted the auditor.

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Table 39: Analysis of Indicators of 73 Management Fraud Cases by Assessment Model Components Based on the Survey

	tPanel A. Where indicators were applicables - and relayan:					Panel B		ere indicat Felevant	ors were of	plicable	
	% of Cases	N of Cases	Conditions	Motivation	Attitude		% of Cases	N of Cases	Conditions	Motivation	Attitude
All three components present:	22	16	72	32	35	!	8	6	15	12	13
Average No. of indicators			4.5	2.0	2.2				2.5	2.0	2.2
Two components present:	54	25	115	12	42		11	8	36	5	16
Average No. of indicators			4.6	0.48	1.68				4.5	0.6	2.0
One component present:	15	11	27	0	4	Ĝ	18	13	17	3	4
Average No. of indicators				0	0.36				1.3	0.2	0.3
No component present:	29	21	-	-	-		63	46	-	-	-
Total all management fraud cases:	-	73	214	44	81	_	-	73	68	20	33
Average No. of indicators			2.9	0.6	1.1				0.9	0.3	0.5

Table 40: Analysis of Indicators of 14 Defalcation Cases by Assessment Model Components Based on the Survey

	Panel A:	Panel A: Where indicators were applicable and releyant					Panel B:	i y/ an	iere indicat d relevant	ors were a	oplicable
	% of Cases	N of Cases	Conditions	Motivation	Attitude		% of Cases	N of Cases	Conditions	Motivation	Attitude
All three components present:  Average No. of indicators	0	0	-	-	-						
Two components present:  Average No. of indicators	14	2	3 1.5	0	5 2.5						
One component present:  Average No. of indicators	57	8	14 1.75	0	0.13		14	2	2		
No component present:	29	4	-	-	-		86	12			
Total all defalcation cases:  Average No. of indicators		14	1,2	0	6 0.42			14	0.3		

As seen in Tables 39 and 40, there are a number of cases where conditions were not both applicable and relevant in Panel A and not both applicable, relevant and alerted in Panel B. In other words, if a condition was applicable but not relevant or vice versa the case would have appeared in the no-component-present category. In comparing Tables 39 and 40 with Loebbecke et al.'s Table 11 it is evident that there are significant differences

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Out of the 73 management fraud cases only 16 (22%), contained indicators in all 3 components of the assessment model. Of those cases in Panel B of the management fraud cases where the indicator also alerted the auditor, the percentage is 8% (in the Major Fraud Group cases it was 36% (see Chapter 5)). Loebbecke et al.'s figures were 66 (86%) and 78% respectively.

From Table 39 Panel A it can be seen that the average number of indicators for the management fraud cases was 2.9, .6 and 1.1 for conditions, motives and attitudes respectively, where only applicable and relevant were considered. Where alerted is also considered, the number of indicators is .9, .3 and .5 from Panel B. These are very different to what Loebbecke et al. found and which were 3.6, 2.9 and 2.9 for Panel A and 3.4, 2.6 and 2.6 for Panel B. The major reason for the difference is because Australian auditors noted that the indicators were relevant to the irregularity but were not applicable in the engagement, or did not alert them. As already stated, the difference found may well be due to the fact that the Australian auditors did not

have as much experience in detecting irregularities as their U.S. counterparts.

It is nevertheless evident, however, that, as also shown in Tables 35 and 36, on the basis of Tables 39 and 40 Loebbecke et al.'s fraud-risk assessment model performs weaker in defalcations than management fraud.

## 5.0 SURVEY PART II: CORRELATES OF FRAUD PRONENESS

In order to expand the discussion in Section 4 above by utilising the data from Part II of the survey, attention will next focus on: (1) identifying fraud-prone industries, audit areas, and audit procedures indicating the presence of material irregularities; (2) profiling the offenders and to compare the picture that emerges with that yielded by the MFG study and reported in Chapter 5; and (3) expanding the Loebbecke model by revising the eclectic fraud detection model developed in Chapter 4 so as to incorporate the findings from the survey of auditors and to examine its applicability. To do this, it is imperative that one studies both the irregularity and the offender. Table 41 indicates that in the majority of cases the material irregularity involved theft of cash.

Table 41: How the Irregularity was Committed

Type of Irregularity	N	%
Theft of cash	46	52.9
Window dressing	15	17.3
Errors in financial statement	6	6.9
Kickbacks	. 4	4.6
Stock theft	4	4.6
Payroll fraud	4	4.6
Kiting	3	3.5
Conflict of interest	;, 1	1.1
Breach of Parliamentary Rule	1	1.1
Insurance Fraud	1	1.1
Forging cheques	1	1.1
Tax avoidance	1	1.1
Total	87	100%

Loebbecke et al. (1989:11) found that management fraud "typically is committed by top management (including directors) and defalcations are typically committed by persons at all levels in the organisation, although not directors to any great extent."

Loebbecke et al. also indicated that in "many" instances there was collusion.

Table 42: Position Held by the Offender

Position Held	N2	%
Upper management	21	24.1
Others below management	13	14.9
Directors	12	13.8
Other management in collusion with others	13	14.9
Chief accountant	7	8.0
Directors in collusion with others	66	6.9
Top management	6	6.9
Chief financial officer	5	5.7
Chief executive officer	2_	2.4
Shareholders	2	2.4
Total 6 a	87	100%

Table 43: Who was Involved by Type of Irregularity

	Payroll Fraud	Errors in Financial Statement	Tax Avoidance	Theft of Cash	Kickback	Forging Cheques	Insurance Fraud	Window Dressing	Breach Parlimentary Regulations	Kiling	Stock Theft	Coulliet of Interest	Total N	Total %
Directors	1	1		8		Ü		3					12	13.8
Shareholders				2									2	2.4
Upper Management	2	1	1	9	l	:		: 3	-	2"	2	1.	21	24.1
Others Top Management				4			. 0	.1				l	6	6.9
Others Below Management		· .		10	2		5		:		. 1		13	14.9
CEO				- 1	#		- W			l -	.,		2.	2.4
CFO	1	1 .	*	3						-			5	5.7
Chief Accountant		1	N To	2	77.	l <sub>.</sub>		.2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r, 1	.11	7	- S.0
Directors in Collusion with Other		1		. 4 .:						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	î		6	6.9
Other Management in Collusion with Others	1	1		3	1		t	. 6			ο .	э	13	14.9
Total N	4	6	1	46	4	1	l	15	ı	3	4	1	\$7	
Total %	4.6	6.9	1.1	52.9	4.6	1.1	1.1	17.3	1.1	3.5	4.6	1.1		100

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Cross-tabulating the type of fraud committed and the company staff responsible for it (see Table 43), reveals that of the management fraud committed by directors, 66% involved theft of cash and the rest window dressing. These results support the Loebbecke et al. finding. On the other hand, while upper management committed 43% theft of cash, the remainder included mainly window dressing, payroll fraud, stock theft, and kiting. Others below management also concentrated on theft of cash (77%) and kickbacks (15%). Directors were mainly involved in theft of cash (62%) and window dressing (25%). Finally, where management colluded with other staff or a third party, window dressing (46%) predominated.

Cross-tabulating the type of fraud and the number of accomplices, (see Table 44) it was found that theft of cash was usually committed alone (58%) or in collusion with one to two more people (35%). Whereas for window dressing, an equal percentage was committed alone (27%) or with one more person (27%). Tax avoidance, forging cheques, breaching parliamentary regulations and kiting were frauds committed without an accomplice. These findings should be considered with the knowledge that in 52% of irregularities detected the perpetrator acted alone, 21% with one accomplice, 13% with two, and 15% with three or more accomplices. For comparison purposes, in the MFG study it was found that the great majority (70%) of the offenders had no accomplices.

"Table 44: Number of Accomplices by Type of Irregularity

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		N of	Accompl	ices			11
Type of Irregularity	0	ı	2	3	4	Total N	%
Payroll fraud	2	ı			1	4	5.2
Error in financial statement	2	ı			1	. 4	5.2
Tax avoidance	1					1	1.3
Theft of cash	25	8	7	t	2	43	55.8
Kickbacks		2	1		1	4	5.2
Forging cheques	1					1	1.3
Insurance fraud					1	1	1.3
Window dressing	4	4	2	·	_ 2	13	16,8
Breach of parliamentary rules	l					1	1.3
Kiting	l					1	1.3
Stock theft	3				_ I	4	5.2
Total N	40	16	10	2	9	77	
%	51.9	20.8	12.9	2.6	11.8		100

Note: The totals for certain types of irregularities do not match the corresponding figures in Tables 41 and 43 because when crosstabulating with number of accomplices there were missing values, i.e., a few auditors responded to one but not to the other question. Ten of the 87 respondents provided no information on whether there were accomplices.

Next, attention is turned to the profiling issue in order to test the applicability of the eclectic fraud detection model of which the ROP model is an integral part.

Table 45: A Statistical Profile of Perpetrators Encountered by Auditors

	—: <del>:</del>	T
	N	%
Gender:		
Male	79	90.8
Female	8	9.2
•	87	100%
Age Group:		
25-35 years of age	· 13	14.9
36-45	53	60.9
46-50	16	18.4
50+	5 .	5.8
#	87	100%
Education Standard:	:	
High School	33	37.9
Tertiary	25	28.7
Professional	28	32.2
Other	1	1.2
4	87	100%
Marital Status:	e.	
Married	78	89.7
Single	5	5.7
Divorced	3	3.4
Separated	1	1.2
	87	100%

As would be predicted using the celectic fraud detection model, Table 45 shows that most perpetrators encountered by the respondents were males aged 36-45, married, and with post high school education. While the picture of the perpetrators painted by the auditors surveyed is no different from that which emerged in the MFG study, the MFG offenders included more members of professional groups such as lawyers. This difference is attributable to the different ways by which the MFG comes to investigate a case of fraud. Interestingly, the type of person described by the auditors as having committed material irregularities is no different from the average common criminal (Farrington, 1993).

Table 46: Sources of Financial Pressure on the Perpetrators

W Motives	N	%
Lifestyle	35	40.2
Gambling	12	13.8
Personal financial problems	11	12.6
Greed	9	10.3
Drugs and alcohol	1	1.2
Combination of the above	19	21.9
	87	100%

Table 46 provides further evidence for the ROP and the eclectic fraud detection model proposed. The results shown support the findings reported in Chapter 5, i.e., that financial pressure due to one cause or another underpins fraud offences by people in positions of financial trust within companies. The type of person depicted in Table 46, characterised by a hedonistic and erratic lifestyle that renders them

prone to offending, is in accordance with what one would have predicted on the basis of either Freud's psychoanalytic theory (in terms of a weak superego) or Eysenck's theory of crime and delinquency (in terms of antisocial personality disorder attributes) discussed in Chapter 2 and contained in the ROP model.

Table 47: Auditors' Description of the Perpetrator's Characteristics

Characteristics	N	%
Authoritarian	., 34	39.1
Extrovert	14	16.1
Loner	10	11.5
Normal	8	9.2
Outgoing	7	8.1
Unknown	4	4.6
Ambitious	4	4.6
Complainer	3	3.4
Introvert	3	3.4
	87	100%

Regarding the auditors' perceptions of the perpetrators' personality traits<sup>16</sup>, Table 47 shows that authoritarianism is the most frequently reported type of personality. It is not, however, clear how this trait is involved in the aetiology of fraud. Furthermore, it is not being claimed here that the auditors' perceptions of the perpetrators' authoritarianism would be borne out if a psychologist administered them a proper personality test. The auditors' descriptions of the perpetrators of the irregularities need to be treated with caution because of their subjectivity and in view of the fact that these assessments were made after the fraud was identified. It would have been

<sup>16</sup> Such information was not included in the prosecution briefs surveyed in the MFG study.

interesting to know if such assessments had been made at the planning stage of the audit whether they would have alerted the auditor. It would be safe, however, to surmise that even if an auditor assumed that someone was an authoritarian person it would not alert him/her at the planning stage to carry out additional audit procedures. This assumption is made based on the red flag findings reported above.

The next issue is the industry in which the fraud was committed. Table 48 shows that more than half (56%) of the irregularities were committed against a public company and that most of them occurred in the manufacturing industry. Loebbecke et al. found "significantly more instances of management fraud in Manufacturing, Transportation, High Technology and Communication Companies and fewer in Education and other institutions, which is consistent with their likely ownership character" (p.10). The finding that Manufacturing is proned to management fraud is consistent with the results of the KPMG surveys.

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Table 48: Industry and Status of the Company Where the Material Irregularity was Committed

Type of company	N	%
Public company	49	56
Private company	38	44
	87	100%
Industry designation	N	%
No industry designation	7	8.0
Agriculture, Forestry and Fishing	. 6	6.9
Mining	3	3.5
Manufacturing	22	25.2
Electricity, Gas and Water Supply	3	3.5
Construction	7	8.0
Wholesale Trade	8	9.2
Retail Trade	. 2	2.3
Accommodation, Cafes, and Restaurants	2 3 2 2	3.5
Transport and Storage	2	2.3
Communication Services		2.3
Finance and Insurance	8 0	9.2
Government Administration and Defence	8 O	3.5
Health and Community Services	7	8.0
Cultural and Recreation Services	2	2.3
Personal and Other Services	2	2.3
	87	100%

Table 49: Industry Category by Type of Irregularity Committed

	No industry designation	Agriculture, forestry	Mining	Manufacturing	Electricity Water supply	Construction	Wholesale Trade	Retail Trade	Accommodation Cafes & Restaurants	Transport and Storage	Communication Services	Finance and Insurance	Government Administration and Defense	Realth and Community Services	Cultoral and Recreational Services	Personal and Other Services	Total N	Total %
Payroll Fraud			1	2					i								4	4.6
Еггог in Financial Statement	2	1		2										ì			6	6.9
Tax avoidance				ı									_		(Z)		1	1.1
Theft of cash	5	2	2	9	1	5	5	1	l	2	2	5	1	3	1	1	46	52.9
Kickbacks				i			1	i .					1	1			4	4.6
Forging cheques			<del> </del>	1													1	1.1
Insurance fraud						-						L					1	1.1
Window dressing		2		6		ı	i	<del></del>				2	1	1		l	15	17.3
Breach of Parliamentary Regulations		:.												1			1	1.1
Kiting					2										i		3	3.5
Stock theft		1				1	1	]					-				-4	<b>4.</b> 6
Conflict of interest			,						1		-						ı	1.1
Total N	7	6	3	22	3	7	8	2	3	2	2	s	3	7	2	2	\$7	
Total %	8.0	6.9	3.5	25.2	3.5	8.0	9.2	2.3	3.5	2.3	2.3	9.2	3.5	8.0	2.3	2.3		100

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Crosstabulating the type of fraud and the industry designation of the company involved (see Table 49) it was found that the types of fraud occurring in manufacturing were mainly: theft of cash (40%), window dressing (27%), errors in financial statements (9%), payroll fraud (9%), whereas in finance and insurance it was theft of cash (63%), window dressing (25%), insurance fraud (12%). Regarding the difference between the types of frauds occurring in a public as opposed to a private company, it was found that 58% of cash theft occurred in public companies as opposed to 42% in private companies. Also, private companies had a higher incidence of payroll fraud (75%) whereas forging of cheques, conflict of interest, insurance fraud, and purchase of equipment for self only occurred in private companies.

An interesting question is whether a relationship exists between the type of irregularity and the person detecting it.

Table 50: Who Detected the Irregularity

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	N	%
Client	29	33.3
Auditor:	·	
Manager	17	19.5
Senior	17	19.5
Supervisor	. 10	11.5
Partner	7	81
Assistant	4	4.6
Fraud Auditor	2	2,3
Whistleblower/ASC/ATO	1	1.2
	87	100%

To a large extent, the finding in the present study (see Table 50) that auditors were the ones who detected most of the irregularities reported on reflects the fact that auditors were asked to answer questions about irregularities they themselves had encountered. Crosstabulating the type of fraud and the person detecting the fraud, it was found that: the two authorities (ASC and ATO) identified theft of cash and stock but, as stated earlier, the client was the most successful in identifying theft of cash and kickbacks; the partner and manager were more successful in identifying theft of cash and, finally, seniors appeared to identify more window dressing than partners and managers<sup>17</sup>.

Another aspect is the audit area affected by the irregularity, which is reported in Table 0118

18 The audit area classification depicted in Table 48 is different from that used in Loebbecke et al. This is because it was considered appropriate to use Schedule 5 classification applicable in Australia and well known to the participants. As they also found, there were multiple audit areas involved, However, in the present study Provisions

and Cash were the main areas involved.

<sup>17</sup> Bernardi (1994a) found managers more likely to detect fraud and he explained it by saying that managers have higher moral development and are not technically focused like the seniors. Davidson (1994) disagreed with this explanation, maintaining that managers are concerned with fee constraints which have an impact on moral development. However, more research is required to resolve the issue whether managers are indeed characterised by a higher stage of moral development.

Table 51: Audit Area Affected

Audit Area	J.	N	%
Cash Provisions Inventories Combination of 2-3 acc	counts	35 25 3 24 87	40.2 28.7 3.5 27.6 100%

Since theft of cash is the most popular type of fraud being committed, it follows that cash and provisions were mainly affected. As far as window dressing is concerned, provisions was the account mainly affected. Therefore, auditors need to pay additional attention to these two audit areas because there is a higher audit tisk.

Table 52: Type of Irregularity by the Procedure Indicating the Irregularity

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				- F					
	Not discovered by auditor	Preliminary Analytical Review	Study of Internal Controls	Anal rucal Test	Substantive Test	No Procedure	Combination of Procedures	Total N	Total %
Payroil Fraud	1	\$- <del></del>		1	2 .			4	4.
Error in Financial Statement		1			1	3	]	6	6.
Tax avoidance							1	ı	1.
Then of cash	19	4	6	1	9	5	2	46	52.
Kickbacks	3	<u></u>	I			:		4	4,0
Forging cheques	1	1			2.			ŧψ	l,
Insurance fraud			1			_	i	1 γ	1.
Window dressing	2	. 1	2	2	5	1.	2	15//	17.;
Breach of parliamentary Rules	ī							1	1.
Conflict of interest	1			·				ì	1.
Kiting		1	1			:		3	. 3
Stock theft	1	i	1	1	1			4	4.0
Total N	29	8	10	6	18	: 9	7	87	
Total %	33.3	9.2	11.5	6.9	20.7	10.4	8.0.		01 9

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Regarding which audit procedure indicated the irregularity, Tables 52 and 53 reveal that 33% of the irregularities were not discovered by the auditors. Whereas in Loebbecke et al. the corresponding figure was a low 7.4%. Substantive tests were the most effective type of audit procedure to reveal the irregularity (Loebbecke et al.'s equivalent percentage is 56.5%), which is consistent with Loebbecke et al.

Table 53: The Audit Procedure that Detected a Particular Material Irregularity

Audit Procedure	N	%
Not discovered by the auditor Substantive test of details Study of internal controls No procedure designation Preliminary analytical procedures Combination of audit procedures Analytical test of specific account	29 18 10 9 8 7 6 87	33.3 20.7 11.5 10.4 9.2 8.0 6.9 100%

Crosstabulating the audit procedure indicating the irregularity by the type of fraud involved (see Table 51), it was found that for the theft of cash 42% were not detected by the auditor; the remainder were detected by means of substantive tests of details (20%), study of internal control (13%), preliminary analytical procedures (8%) and a combination of procedures for the rest. Substantive audit procedures were useful in identifying window dressing. Errors in financial statements, tax avoidance, insurance frauds and kiting were discovered by the auditor alone, whereas kickbacks and theft of cash were primarily not discovered by the auditor. These findings are in line with

Loebbecke et al.'s

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The next issue inquired by the survey is the length of time of the client-auditor relationship (i.e., the number of prior audits) when an irregularity was discovered, as well as the duration the irregularity had been committed<sup>19</sup>.

Table 54: Relationship Between the Number of Years the Auditing Firm were the Auditors and the Time Period the Irregularity was Committed.

Number of prior year-audits of client firm at time of irregularity	N	%
Years 1 2 3 4 5 >5	15 15 18 7 16 16 87	17.2 17.2 20.7 8.1 18.4 18.4 100%
Time Period for which an irregularity Was committed	N "	· %
Years <1 1 2 3 4 5 5+	32 20 19 7 3 3 3 87	36.8 23.0 21.8 8.1 3.4 3.4 3.4 100%

<sup>19</sup> Pincus (1990) and Bernardi (1997a) both reported that fraud detection will increase as an auditor's prior

Table 54 shows that 55.1% of the irregularities were discovered within the first three years; i.e., a significant proportion of the irregularities were encountered by the respondents when auditing new clients. The fourth year of the auditor-client relationship appears to be a "slack" year as far as auditor-detection of irregularities is concerned. It would not be unreasonable to surmise here that after a spate of successes by the external auditor in detecting irregularities, the culprits "lie low", perhaps perceiving a high risk of being found out. When this deterrent effect of the auditor's successes decreases enough, perpetrators of such illegal acts within companies are back in action! Another argument in the literature is that auditors become comfortable with their clients and start to trust them, possibly too much, so that they don't maintain a proper attitude of professional scepticism and they may under - audit.

## 6.0 REPORTING FRAUD

Given the reporting requirements set out in AUS210 (AARF,1995a) the findings regarding reporting of fraud come as no surprise. Slightly more than half (53%) of frauds detected were reported to the Board of Directors, 21% to the CEO and 2% to the audit committee. Considering that 56% of frauds occurred in public companies, one would have expected more reporting to the audit committee<sup>20</sup>; similarly, one would have expected more reporting to the ASC; in fact, only 2% were reported.

expectations concerning the existence of fraud increase. This was not directly tested by the present research.

Five per cent were reported to the Major Fraud group and the remainder to other authorities. Theft of cash was reported mainly to the Board of Directors (53%), or others (24%), namely financial controller, audit partner and Parliament. Window dressing was reported predominantly to the Board of Directors (57%) and the CEO (36%). Payroll fraud was equally reported to the CEO and Board of Directors. The other bodies to which auditors reported were the partner in charge, anti-corruption branch, in one incident the auditor confronted the perpetrator who admitted to it.

## 7.0 USE OF FRAUD AUDITORS AND FORENSIC ACCOUNTANTS

In view of the difficulty in and importance of detecting fraud, the use made of fraud auditors and forensic accountants is an interesting issue. Forty-five per cent of the respondents stated that their firm provided services by forensic and fraud auditors. Regarding the experience and qualifications held by these specialists, they were: Forensic accountants, mainly: chartered accountants (33%), chartered accountants and lawyers (13%), and registered company auditors and chartered accountants (33%). Fraud auditors were: chartered accountants (45%), chartered accountants and registered company auditors (43%) and, finally, some had experience as psychologists or criminologists -5% in each field.

<sup>20</sup> However not all companies have an audit committee.

The forensic accountants and fraud auditors who participated were of the opinion that had their services been used, fraud could have been prevented or detected earlier. The other respondents, however, did not share that opinion. As for the number of times a fraud auditor had been used in the last 12 months, it ranged from one (40%), to two (33%) whereas for a forensic accountant it was mainly: one (40%), two (10%), three (10%), ten (20%). These findings suggest that fraud auditors and forensic accountants are not used very frequently.

### 8.0 THE ECLECTIC FRAUD DETECTION MODEL REVISITED

The results yielded by the survey of auditors add to the broad range of information-inputs into effective fraud-detection contained in the eelectic fraud detection model (see Figure 4) and show the model's applicability. More specifically, the findings obtained show that:

- used on their own, red flags are not particularly useful in alerting auditors to the existence of material irregularities at the planning stage;
- the different high-risk industries (e.g., manufacturing) where the auditor is likely to encounter different types of irregularities (e.g., management fraud, employee fraud, and error);
- the audit procedure(s) likely to identify a particular type of irregularity;
- the forms (e.g., theft of cash, window dressing) each type of irregularity is likely to take;

- which audit areas (cash and provisions) are high fraud-risk ones; and
- the lack of an effective internal control system and the absence of a code of corporate conduct are significant correlates of an irregularity (including management fraud, employee fraud and errors) impacting materially on the accounts.

In support of Albrecht et al. (1995) and Cressey (1986), the findings also stress the importance of the auditor being alerted to information about individuals within a company who are high risks of perpetrating an irregularity, including fraud, because they face a serious financial problem. The financial problem itself is most often due to a person in a position of trust living beyond their means for one reason or another.

The additional findings not contained in Figure 2 (i.e., particular high-risk audit areas and patterns in auditors' fraud detection) have been added to Figure 4 (see Chapter 7) so as to make it more comprehensive. The findings provide empirical support for the applicability of the eclectic fraud detection model. They do this by confirming the crucial importance of its various components (the audit firm; the auditor; and fraud-risk information, including the ROP Fraud model in Figure 3 – see Chapter 7) for more effective and efficient fraud-detection performance by auditors.

### 9.0 CONCLUSION

The survey was carried out in an attempt to reduce the gap in our knowledge about the nature of material irregularities (including management fraud, employee fraud and error) encountered by auditors in Australia. The 108 relatively experienced auditors who participated in the study reported having encountered a total of 768 irregularities in the last five years. This indicates it is relatively rare for auditors to encounter material irregularities when taking into account an auditor's total number of engagements.

Part I of the survey found that the three most common types of irregularities encountered by the respondents during the last five years were: management fraud (39.7%), employee fraud (24%) and other illegal acts (19%). Differences in the findings obtained in the present study and those of Loebbecke et al. (1989) and KPMG (1995a) concerning, for example, management fraud and employee fraud, are probably due to differences in the sample of respondents used. The results indicate that there are patterns in fraud-detection with respect to the six types of irregularities encountered by the auditors (see Table 22). The present study found that: for each and every type of irregularity there is at least one high-risk industry; the irregularity is likely to take one form rather than another; and a particular audit procedure is more likely to alert an auditor to the existence of a particular irregularity. Finally, two

significant correlates of a material irregularity are the lack of an effective internal control system and a code of corporate conduct. The importance of effective internal control system and a code of corporate conduct in fraud prevention is provided for in the ROP model (opportunity component) constructed and successfully tested in the MFG study. The significance of the same two factors was emphasised by the KPMG (1995a) fraud survey.

The irregularities about which the respondents answered questions put to them in Part I of the survey were not unimportant since 39.7% involved management fraud. This finding is of interest in view of the fact that financial statement fraud accounts for about half the litigation cases against auditors in the U.S. (Palmrose, 1987). Interestingly, directors were as likely as other management to perpetrate management fraud. Differences were found between the types of management frauds encountered by auditors in the Loebbecke et al. (1989) study (assets overvalued or incorrectly valued) and in the present one (window dressing). Differences were also found between the two studies regarding the types of industries more frequently involved in management fraud. However, manufacturing ranked number one in both studies. In Australia, trusts and fund management and construction appear to be plagued by management fraud the most. As far as the audit procedure that alerted the auditors to the irregularities is concerned, management review and/or tests of controls emerge as the most likely ones to do so while in Loebbecke et al. it was substantive testing.

Employee fraud, comprised 24% of the total number of irregularities, and it most often took the form of expenses recorded incorrectly and was more frequently reported in manufacturing. The respondents detected employee fraud largely as a result of management review and/or tests of controls while in Loebbecke et al. it was substantive testing. As with management fraud, both the lack of effective internal controls and a code of conduct were statistically significantly associated with the employee fraud impacting materially on the accounts, especially in manufacturing, government administration and defence, and in finance and insurance.

Previous researchers have concerned themselves exclusively with management fraud and employee fraud. The fact that there has been no previous research into other illegal acts, other acts, and other illegal misstatements means that no comparisons of findings are possible. Other illegal acts made up 19% of the irregularities encountered by the respondents in the last five years. Due to the small number of cases in other acts and other illegal misstatements, caution is warranted in interpreting the findings obtained about those two types of irregularities. The most frequent other illegal acts encountered were non-compliance with accounting standards and breach of security and insurance industry regulations. Other illegal acts were most prevalent in finance and insurance and manufacturing. Substantive testing and/or statutory record review was the audit procedure most likely to alert auditors to the existence of other illegal acts. Once again, the industries that had a high incidence of other illegal acts were the ones more likely to lack a code of conduct. In those

cases, the other illegal acts impacted materially on the accounts.

A small proportion (4%) of the irregularities encountered by the respondents involved other acts which occurred mainly in the trusts and fund management sectors. Auditors were alerted to the existence of other acts largely as a result of a review of records. Non-compliance with a trust deed was the one other acts that had a material impact on the accounts. As in the case of the other irregularities mentioned, other acts were associated significantly with an ineffective internal control system and the absence of a code of conduct.

Intentional but not fraudulent or other illegal misstatements made up 6.7% of the irregularities reported. These were likely to occur in the trusts and fund management sectors. They took the form of the accounts "not adding up" and came to light mainly following a review of financial statements and/or review of accounting records. Finally, errors accounted for 6.25 % of the total number of irregularities. Trusts and fund management and the manufacturing industry had the highest incidence of errors. The most common type of error detected was financial statement errors. Errors were largely detected as a result of a review of financial statements. Errors provided another instance where the absence of a code of conduct and an effective internal control system correlated significantly with the error impacting materially on the accounts. In support of Entwistle and Lindsay (1994), it was also found that manufacturing is also an error-prone industry.

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Summing up the findings obtained by the survey, the following industries are prone to the following irregularities: management fraud and employee fraud (manufacturing); employee fraud (government administration and defence); other illegal acts and other acts (finance and insurance); errors (trusts and fund management).

In addition, the six irregularities examined tend to take the following forms:

- management fraud (window dressing);
- employee fraud (wrong expense claims and stealing of cash);
- other illegal acts (non-compliance with accounting standards or legislation);
- other acts (non-compliance with a trust deed);
- other illegal misstatements (accounts not adding up), and
- errors (financial statement errors).

One of the aims in carrying out the survey was to test Loebbecke et al.'s (1989) assessment model. It is for this reason that this chapter discusses at considerable length, how the results of the present study compare with those of Loebbecke et al. In contrast to what Loebbecke et al. reported, one of the significant findings obtained in the survey is that red flags are of limited usefulness to auditors in detecting irregularities, including fraud. In only a minority of cases, the auditors were alerted

to the existence of an irregularity, by a red flag indication. This is despite the fact that the majority of red flags were both applicable to the engagement and relevant to the irregularity. The relationship between the applicability and relevance of a red flag and whether the auditor was alerted to the irregularity depended on the particular category of red flag indicators.

The utility of red flags at the planning stage was also examined, distinguishing between management fraud and defalcations, and classifying red flags in terms of the three components of Loebbecke et al.'s fraud-risk assessment model, namely conditions, motives, and attitudes. In comparison to their U.S counterparts, Australian auditors appear to be less vigilant at the planning stage and too often were not alerted to the existence of a material irregularity by one or more red flags. It is not possible, however, to conclude as to the reason(s) for the difference found between the auditors in the two study surveys. Future research should investigate the hypothesis that cultural differences impact on auditors' decision making (see Yamamura, Frakes, Sanders, and Ahn, 1996). In support of Loebbecke et al. it was found that dominated decisions is a major indicator of material irregularity. Overall, however, the survey results show that fraud-risk assessment utilising red flags is not effective.

In comparing the findings from the two studies some differences between the auditors who participated in them need to be borne in mind. Loebbecke et al.'s

auditors were from one firm only and were partners. Compared to the auditors in the present study, they were significantly older, a factor that explains the fact that they had twice as much audit experience (in years). The participants in both studies, however, were included in the research because they were experienced in detecting irregularities. Loebbecke et al.'s auditors had an average number of engagements of 3.1 where an irregularity had been encountered and/or had encountered an irregularity in 1.3% of the total number of engagements they had worked on. By comparison, the auditors in the present study who came from various firms across the country and had only been in the position of (predominantly) manager or partner for three years, had an average of 5.2 engagements where an irregularity had been encountered and/or had encountered an irregularity in 19% of their total number of engagements. However, the auditors in the present survey were 4.5 times less likely than their counterparts in the U.S. study to have encountered an irregularity themselves. Often an irregularity would be detected by a combination of audit procedures, whereas in Loebbecke et al. an irregularity was most often detected by substantive testing.

It should be noted at this point that substantive testing was the audit procedure used by the respondents in the present study to detect a material irregularity, encountered within the last 12 months in Part II of the questionnaire. The same finding was also obtained for other illegal acts (see Section 3.1above). However, whereas in Loebbecke et al. (1989) it was substantive testing which detected management and

employee fraud in the present study it was management review and/or tests of controls, and management review respectively. The last conflicting finding may be attributable to the different sample of respondents used or a shift in audit approach by audit firms.

The present study found that more than half of the irregularities were detected during the first three years<sup>21</sup> (and especially in the third year) of an engagement and that auditors were not likely to discover it. The survey highlights the crucial importance of auditors not ceasing to be vigilant however long they have been auditing a company's books. Auditors in the survey reported a material irregularity mainly to the board of directors and did so especially when it involved theft of cash and window dressing.

A major weakness in the Loebbecke et al. fraud risk assessment model is that its "attitudes" component contains a contradiction between the way it is defined and the examples given for it. Therefore, their model does not provide for offenders' rationalisations – a component for fraud to occur.

The survey findings call into question one of the basic premises of Loebbecke et al.'s model that all of its three components (conditions, motives and attitudes) of the assessment model need to be present for management fraud to occur. In addition,

<sup>21</sup> Loebbecke et al. found that most irregularities occurred in companies that had been audited for 1-10 years.

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their model has been shown by the survey results to perform weaker in defalcations than in management fraud. While the findings from the present survey lend some support to Loebbecke et al.'s model, they also cast doubt on it. It is argued, therefore, that the Loebbecke et al. model should be revised in light of a major inherent weakness with one of its components and the contradictory findings obtained.

Regarding the profile of the perpetrators generated by the auditors' responses, it is very similar to that constructed in the MFG study<sup>22</sup>. The personality attribute of "authoritarian", however, is not part of the MFG profile and has been added to Figure 3 because it can be argued to be synonymous with "dominated decisions" which has been found to be a useful red flag. Management were the main perpetrators of the material irregularity, were characterised as authoritarian males, were aged 36-45, married with high school or higher educational qualifications, who lead lifestyles that seem to lead them to committing such material irregularities as fraud. However, as already pointed out, the participating auditors' description of the perpetrators needs to be viewed with caution.

Finally, the findings reported in this chapter provide empirical support for the eclectic fraud detection model developed in Chapter 4. The survey emphasises that audit experience alone is not sufficient to improve the auditors' fraud-detection performance as they seem to seldom encounter irregularities. In addition, the use of

<sup>22</sup> The major fraud offenders in Chapter 5 were in the age group 31-45,

red flags on its own is not enough for effective fraud detection by auditors. By reporting patterns in the kinds of relationship between different industries, different irregularities, different ways that alerted the auditors, and different audit procedures that appear to detect them, the survey of auditors has added new knowledge to fraud risk assessment. The findings support the general profile of fraud offender constructed on the basis of the MFG study, but also emphasise the importance of a person having a vice such as gambling as a good indicator of their being a fraud risk. The survey also identified having an authoritarian personality as indicative of crime-proneness. The eclectic fraud detection model was borne out by the findings of the survey. Furthermore, the results of the survey help to revise the model and to make it even more useful to auditors by showing that fraud-risk assessment has to be multifaceted if it is to achieve its objective. In the light of the evidence, it can be concluded that the fraud detection model proposed in Chapter 7 is more likely to be useful to auditors as it makes good the deficits in Albrecht et al.'s (1995); Cressey's (1986) and Loebbecke et al.'s (1989) models.

The results of the survey challenge Loebbecke et al.'s (1989) assertion that all three of their model's components must be present for fraud to occur. As in the cases of the profile of the major fraud offender, the proposed fraud detection model weaves together features and patterns identified at different levels, namely: the economic environment, the particular industry, the company, particular financial areas within the company and particular individuals holding positions of financial trust where

they can effect fraud. Hence, the ROP Fraud model is an essential component of the revised eclectic fraud detection model (see Figure 4, Chapter 7). The fraud-detection model depicted in Figure 4 informs auditors that: particular fraud-prone industries are characterised by five different types of irregularities; that particular kinds of audit procedure are more likely to identify particular kinds of irregularities, as well as what factors alert auditors to different irregularities in the different industries. This additional knowledge enables the model developed in Chapter 4 to be further refined and makes it more useful to auditors in a more practical way, by providing specific guidance on what to look out for and how to approach it in planning their audit and carrying out a fraud risk assessment.

The research findings should benefit auditors as far as fraud indicators are concerned, and assist them to enhance their audit effectiveness. It is also hoped that the research results reported below can be used to identify ways of detecting, preventing and reducing major fraud within companies more effectively and efficiently than at present.

The next chapter describes the refined models of why people commit fraud and of fraud detection and considers in what sense the present thesis can be said to be making an original contribution to knowledge in the fields concerned.

#### CHAPTER 7

### DISCUSSION OF THE ROP FRAUD MODEL AND THE FRAUD DETECTION MODEL

Fraudulent activity such as management and employee fraud are examples of irregularities that can have a material impact on the financial statements. Such frauds are very costly for both the entities defrauded and society at large and are also significant for the auditing profession. In Australia, the detection and prevention of irregularities rests with management. This thesis has argued that the ability to detect fraud is vital to auditors, even though auditors in Australia do not have a legal duty to detect irregularities, including fraud, but only to audit with reasonable skill and care. This is because of: (1) the legal liability auditors can face when they fail to detect fraud; and (2) the fact that fraud detection is an important component of the expectation gap and audit beneficiaries want an expanded role for the auditor as society's corporate watchdog. Auditors are under increasing pressure to accept responsibility for detecting material fraud.

Since auditors cannot become experts at fraud detection through audit experience alone, they need to utilise the relevant knowledge about why people commit fraud that is available in such other disciplines as psychology, sociology and criminology. The review of relevant theoretical perspectives and available empirical evidence in those disciplines identified a number of fraud correlates regarding the offender's personality attributes, thus making it possible to talk in terms of fraud-prone individuals, i.e., persons possessing certain personality traits and who are motivated to commit fraud.

The notion of fraud-proneness has been lacking in various fraud-detection models put forward to assist auditors in assessing the risk of fraud when planning their audit.

Results reported in this thesis show that the existence of an opportunity for, and financial pressure on, someone to commit fraud are not enough to account for individual differences in who does or does not commit management or employee fraud. The thesis has also identified and evaluated a significant amount of knowledge regarding specific ways of improving auditors' ability to detect fraud. This includes being aware of company-level and financial-area-level correlates of fraud-proneness, as well as a broad range of approaches to fraud detection put forward in recent years. It needs to be emphasised in this context that different approaches to fraud detection by auditors are best thought of as supplementing one another.

# 1.0 A DESCRIPTIVE MODEL OF THE AETIOLOGY OF FRAUD (ROP FRAUD MODEL)

The study of 50 major fraud cases prosecuted by the MFG, examined the applicability of the proposed ROP model of the aetiology of fraud (see Chapter 5). The results of the study support the basic premise of the model (see Figure 3) that fraud is generally committed as a result of a combination of factors, namely the existence of a crime-prone person with a motive (P), an opportunity (O) and the possession by such a person of rationalisations (R) that make it possible for him/her to commit the crime once or repeatedly (see Figure 3). The MFG study cast serious doubt on the validity of the Loebbecke et al. (1989) model because it fails to take into account one's rationalisations for committing fraud. The ROP model was revised in the light of the

results of the study and highlights the importance of both "situational factors" and "company characteristics" in operationally defining the "opportunity" component of ROP. The MFG study results also confirmed that the "person" component of ROP consists of two inseparable parts, namely "motive" and "crime-prone personality". Finally, the findings obtained confirm the crucial importance of "rationalisations" for fraud to occur.

The profile constructed on the basis of the literature discussion and the results of the MFG study comprises information at two levels: firstly, at a general level, the culprit is likely to be a male first offender, aged 31-45, occupying a position of trust, who needs to solve a financial problem (or, simply, is motivated by greed), often acts alone, breaches that trust and commits a spate of deception offences defrauding a number of victims; secondly, the profile incorporates a taxonomy of offenders that comprises a detailed account of twelve offender typologies. The profile is significantly more detailed than what has been reported by other authors and includes a minority of offenders who are professional predators (see the motive component of Figure 3). The offender profile constructed would be useful to auditors if used in conjunction with other relevant knowledge about fraud risk, such as different industries and financial areas. The profile constructed ought to be used in combination with (1) the knowledge concerning the statistically significant inter-relationships found between offence, offender and victim characteristics; and (2) the eelectic fraud-detection model reported in Chapter 6 (see Figure 4).

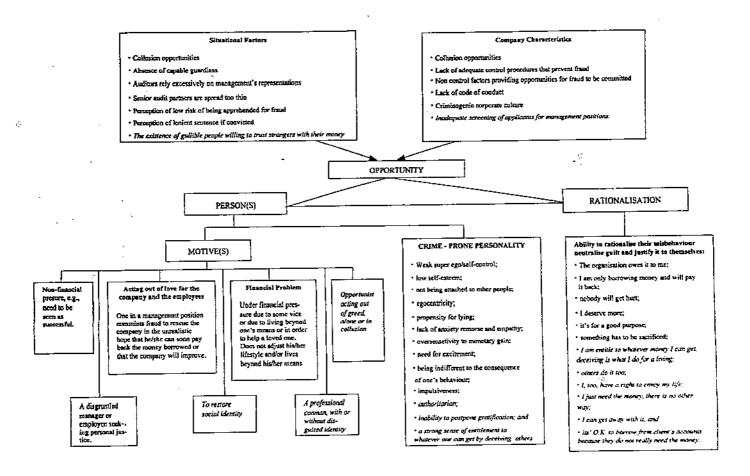


Figure 3 - Descriptive Model of Actiology of Fraud (ROP Model)

Note: The information shown in Italies has been added in the light of the results discused in Chapter 5 321

The findings obtained show that the *modus operandi* (deceptive action) of serious fraud offenders is very much the same whether they operate in Australia or in the U.S. and that the MFG-prosecuted offenders were very prolific.

## 1.1 Additional issues addressed by the two studies and incorporated in the ROP model

Reflecting on the importance of opportunity, most (94%) of the offenders victimised someone they knew. The fact that approximately one-third of the offenders had a criminal record (that was especially the case with managing directors) points to the importance of careful screening of applicants for positions of financial trust, including background checks, in order to reduce the risk of fraud victimisation (see "Company characteristics" in Figure 3).

The finding that about one-third of the offenders had accomplices means that for such offenders the decision to commit fraud follows a group discussion, a very important factor not previously discussed by other authors in this area, a factor catered for in the ROP model (see "Company Characteristics" part of the "Opportunity" component of Figure 3). In a sense, the availability of one or more other crime - prone person(s) can be considered an opportunity to collude in order to perpetrate fraud by, for example, beating the internal control system.

The findings from the survey of auditors support the general profile of a fraud offender constructed on the basis of the MFG study, but also emphasise the importance of a person having a vice/motivation, such as gambling, as an indicator of their being a

fraud risk. The survey also identified having an authoritarian personality as indicative of crime-proneness (see "Crime-Prone Personality"). The results of the survey do not support Loebbecke et al.'s (1989) assertion that all three of their model's components (conditions, motives and attitudes) must be present for management fraud to occur. In addition, their model has also been shown to be weaker in defalcations than in management fraud. There is, therefore, a need for the Loebbecke et al. model to be revised in the light of the doubt cast upon it by the findings of the research reported in Chapters 5 and 6. In the light of the evidence, it can be concluded that the ROP model is more likely to be useful to auditors, as it makes good the deficits in Loebbecke et al.'s model.

Contrary to what Gottfredson and Hirschi's (1990) General Theory of Crime predicts, most major fraud offenders were not immersed in crime in the sense of being recidivist career offenders. The offenders surveyed can, however, be said to support Gottfredson and Hirschi's theory to some extent in so far as they evidenced low self-control and exploited opportunities available to them. The MFG study indicates that a diversity of people commit fraud for a variety of reasons and in different circumstances, and who the offenders are is not random. In other words, the offenders studied comprise a number of typologies of major fraud offenders, many of whom experienced situational pressures (e.g., high personal debts, financial losses) and who rationalised their offending to make it acceptable to them, and thus to continue to perceive themselves as successful professionals in their fields. Also, it should not be forgotten that solicitors, accountants and bank managers, to name but a few, operate in an occupational culture that values wealth and corporate success, considers failure quite unacceptable and at

the same time provides opportunities for major fraud.

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The ROP model sets out the different ways in which fraud becomes possible. These are: when a crime-prone individual under financial pressure or with other motives, perceives at least one opportunity to commit fraud; when the individual has both the knowledge to commit the crime (alone or in collusion) and to conceal the fraud; and, finally, the individual possesses the rationalisations needed to justify to him/herself committing the offence once or repeatedly. The need to locate the three components of ROP in a broader socioeconomic context is emphasised. Rationalisations constitute by far the most vital of the three components that make up the psychological process of information processing and decision making that precedes an act of fraud. The model's eight assumptions listed in Chapter 4 were borne out by the MFG study.

It is acknowledged earlier on in this thesis that the methodology used in the MFG and the survey of auditors has its limitations. These limitations include the fact that the offenders' rationalisations were studied after the offenders were apprehended by the police and convicted by the courts. It is therefore, not certain whether the same rationalisations existed before the offences in question or whether they could be used to predict fraud. Also the fact that some types of irregularities plagued one type of industry rather than another may well be due to some industries (e.g., manufacturing) having more companies.

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Without ignoring the limitations of the two studies, the findings show that it is no longer justifiable to talk about major fraud offenders as a homogeneous population and emphasise the need to desegregate sub-categories of such offenders. The MFG offenders surveyed made many decisions, both about their everyday life, their business activities, about who and how to deceive in order to obtain money and whether to act alone or with one or more accomplices. More specifically, for the majority of them who are not professional commen, there is the original decision to solve their financial problem by committing fraud, but there is also the decision to continue committing fraud or to desist.

Whether the sentences imposed by the higher courts on such offenders serve the purpose of individual and/or general deterrence is impossible to say on the basis of the studies carried out. However, examination of voluntary statements made to the police by the offenders concerned indicates the following: a term of imprisonment of five years or less is unlikely to be a deterrent because they fancy their chances of not being apprehended; if charged, they believe they "can beat the charges" against them and, even if they are incarcerated, they know they would be unlikely to serve their full sentence. Without a subjective perception by serious fraud offenders that (1) there is a high risk of being detected, prosecuted and convicted; and (2) that the likely penalty upon conviction will be severe enough, deterrence becomes a questionable moral justification at the sentencing stage.

### 2.0 ECLECTIC FRAUD DETECTION MODEL

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In support of similar conclusions reached on the basis of the findings from the survey of auditors reported in Chapter 6, the findings obtained in the Major Fraud Group study suggest that auditors played but a rather limited role in the detection of the frauds involved. The fraud detection model, which includes the ROP model as one of its components (see Figure 4), shows how auditors can improve their fraud detection ability. Given that most frauds involve financial pressure on an individual and that factor plays such an important part in contributing to fraud taking place, a simple income-expenditure assessment of professional people in positions of trust should help to identify potential/actual major frauds. Future research should also consider fraud in a variety of officially-known and self-reported offenders in order to identify the factors that best explain their specific nature and prevalence. There is a need to desegregate fraud in order to be able to integrate information about individual offenders, their modus operandi and clues in their "distorted stories", as well as to assist auditors to narrow their search for major fraud offenders and to detect fraud.

It is not claimed that armed with the criminal profiling results obtained auditors can identify an offender and significantly increase their fraud-detection efficiency. This is simply because, on the basis of existing knowledge in this area, it is just not possible to predict accurately who in a company will commit or has been committing fraud. What the ROP model can do is to increase an auditor's sensitivity to fraud-risk and focus his/her attention on persons who are potential fraud risks.

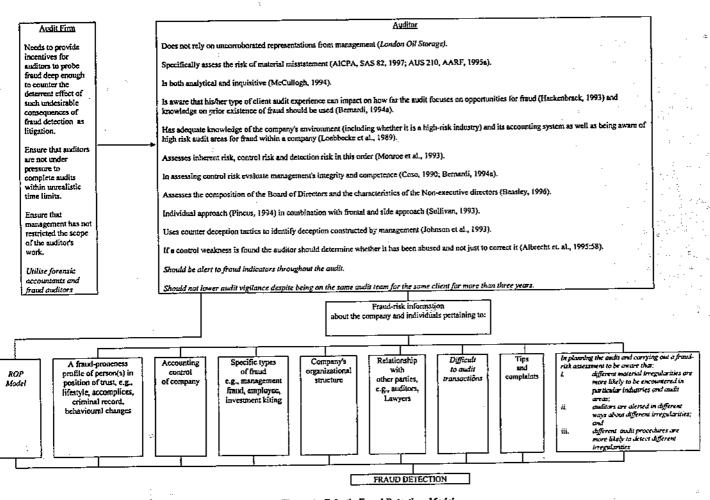


Figure 4 - Eclectic Fraud Detection Model

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The survey of Australian auditors' experience in detecting material irregularities including fraud found that for auditors encountering material irregularities is a rare event and that the use of red flags is not particularly helpful on its own. Therefore, auditors cannot rely on red flags or audit experience alone in their endeavours to improve their fraud detection effectiveness. It is hoped that the eclectic fraud detection model constructed will go some way towards enhancing auditors' fraud-detection ability.

The irregularities about which the respondents answered questions put to them were important, since 39.7% involved management fraud, the kind of fraud most likely to land auditors in costly litigation suits in the courts. The survey of auditors has added a new dimension to fraud-risk assessment by: (1) reporting patterns in statically significant relationships between different industries, different irregularities, different ways auditors were alerted, and different audit procedures that appear to detect such irregularities; and (2) identifying two significant correlates (absence of an effective system of internal control and a code of conduct) of an irregularity having a material impact on the financial accounts of a company. Furthermore, the research reported in Chapter 6 is the first time such issues have been addressed with reference to four kinds of irregularities, namely other illegal acts, other acts, intentional non-fraudulent misstatements and errors.

The eclectic fraud detection model was supported by the findings of the survey. The results of the survey were used to revise the model and make it even more useful to auditors by showing that fraud-risk assessment has to be multifaceted if it is to achieve

its objective. As in the cases of the profile of the major fraud offender, the frauddetection model weaves together features and patterns identified at different levels.

These levels are: the economic environment, the particular industry, the company,
particular financial areas within the company and particular individuals holding
positions of financial trust where they can effect fraud. Hence, the ROP model is an
essential component of the fraud detection model. The survey of auditors indicates that,
unlike their counterparts in the U.S., auditors in Australia appear to be less vigilant at
the planning stage and too often fail to be alerted by one or more red flags to the
existence of a material irregularity. The survey findings also highlight the crucial
importance of auditors not ceasing to be vigilant however long they have been auditing
a company's books.

The fraud detection model constructed also highlights the importance of having a competent, ethically-minded auditor, who is well versed in the aetiology of fraud, in management deception strategies and counter deception strategies, and who enjoys the full support of his/her firm as far as fraud detection is concerned. Additionally, an auditor should: have a good bird's eye view of the company's environment and internal control system, be alert to information about both individuals within the company who are high risks of potential fraud and the company's relationship with outside parties. Finally, the auditor should be aware of and guard against his/her own unintentional biases in carrying out the audit.

Without ignoring its limitations, what the research reported in Chapters 5 and 6 can do is to increase the fraud awareness of auditors. Together with empirically obtained knowledge about other sets of red flags pointing to vulnerable types of industries/companies as well as vulnerable areas within particular types of industries/companies, the red flags inherent in the ROP model provided above can at best be used to alert an auditor to a greater likelihood of fraud and thus negate an auditor's sense of complacency.

### 3.0 FUTURE RESEARCH

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Future research should, explore further the patterns identified between offence, offender, victim and criminal justice characteristics with a larger sample of such offenders, including self-reported (as opposed to officially-known) fraud offenders, in order to replicate the two-component criminal profile of a fraud offender reported above. It could also examine the applicability of the two models with a larger and more representative sample of management and employee fraud cases and auditors respectively and test experimentally the use by auditors of red flags contained in the fraud-detection model proposed in Chapter 6. This could help ascertain the actual usefulness of the two proposed models to auditors in detecting fraud. Another approach would be to utilise interviews with fraud offenders to shed some light on the various decisions that are necessary for fraud to occur. Finally, there is a need to replicate the MFG findings by measuring fraud offenders' level of self control using the instrument developed by Grasmick et al. (1993).

No single thesis can ask all the relevant questions, let alone provide satisfactory answers to them. The author hopes the research contained in this thesis provides some much-needed answers to two basic but important contemporary issues/questions for auditors, namely why people commit management and employee fraud and how auditors can become better at detecting such fraudulent activity.

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### Appendix I

### 16 September 1995

Surveys by KPMG 1995) and Deakin Australia (1994) have found that the cost of fraud by persons in positions of trust in our society is astronomical. Auditors are often sued for negligence to the tune of billions of dollars as a result of failing to detect material irregularities. Despite the importance of fraud, researchers in Australia have paid scant attention to it.

In an effort to increase our understanding of fraud I am carrying out a national questionnaire survey of auditors' duties to detect and report irregularities. The purpose of the survey is to better understand the various types of irregularities that are being committed in Australia by white-collar crime offenders and, in the context of AUP16 (AUS210) to identify the type of indicators present in an audit that should alert the auditor to the existence of irregularities. It is estimated that the questionnaire will take approximately twenty minutes to complete. The survey results will be made available to all respondents who wish to receive them, together with a token of appreciation to recompense the participants for the time spent to complete the questionnaire.

Please rest assured that all data collected will be analysed anonymously and treated as strictly confidential. Respondents' details will be detached from the questionnaire as soon as it is received so as to maintain the confidentiality of the participants.

I would greatly appreciate both your endorsement of the survey and advising your firm's auditors (those who have completed their PY or are at the Senior level) and fraud auditors or forensic accountants if there are any. If your firm consents to participate you will be sent the questionnaire through the mail at the end of October.

Finally, please note that Commander A. Bowles, of the Major Fraud Group, Victoria Police, is endorsing the questionnaire and a letter to that effect will be sent with the questionnaire.

I shall be contacting you by phone within the next two weeks regarding this letter.

Thanking you in anticipation. Yours Sincerely,

Maria Kapardis (ACA), M. Bus. Senior Lecturer in Accounting. 26 October 1995

Dear participant,

I am a Senior Lecturer in Accounting, and I am currently conducting research into

Auditors' duty to detect, deter and report management fraud.

Part of the research utilises a structured questionnaire to be filled in by practising auditors/fraud auditors/forensic accountants/internal auditors in Australia. It is estimated it will take one about twenty minutes to complete the questionnaire. I would be grateful for your participation.

As you know, the cost to society of such irregularities as fraud is astronomical, and there is a controversy surrounding the role of the auditor in detecting and reporting such offences. It is also evident that audit firms are sued for exorbitant damages for alleged failure to detect and report irregularities. Interestingly, auditing research has paid scant attention to fraud and auditors.

The survey consists of three parts:

Part I: Summary information about each of the irregularities with which you have had experience, during the last five years. This information is needed to assist in the understanding of auditors' experience with material and immaterial irregularities, in terms of frequency of occurrence, nature, and impact on the financial statements of the clients involved.

**Part II:** Detailed information about one material irregularity selected by you is required. The purposes of gathering this information are:

- (a) to contribute to the understanding of irregularities at a detailed level, and
- (b) to determine the presence of indicators available to the auditor before the irregularity was discovered (in terms of the AUP16 (AUS210) factors).

Part III: Demographic data about you and your experience.

It is hoped the research will benefit you personally in terms of identifying fraud indicators, and gaining knowledge that should assist you to enhance your audit effectiveness. Society in general will also benefit because the research concerned will identify ways of detecting, preventing and reducing such white-collar crime as fraud.

If you are interested in receiving an executive summary of the results and a gift voucher as a token of appreciation to recompense you for the time spent to complete the questionnaire please fill in your details in the next page. I would greatly appreciate it if you return the completed questionnaire by 30 November, 1995.

Rest assured that your response will remain anonymous as your details will be detached from your response when it is first received and will be treated as strictly confidential. Furthermore, in order for the research to comply with the requirements of the University's Ethics Committee the statement in the next page would need to be filled in by you.

Any questions concerning this project can be directed to Ms. Maria Kapardis of Victoria University of Technology, Department of Accountancy and Law on (03) 9365 2549, fax (03)9365 2525.

Thanking you in anticipation.

Yours Sincerely,

Maria Kapardis (ACA), B. Ec., M. Bus. Senior Lecturer in Accounting

1	have read the inf	formation on the previous
page and any questions I have asked have participate in this activity, realising I may		
l agree that the research data gathered fo not identifiable.	r this study may b	e published provided I am
Participant or authorised representative	Date	A B
M. KAPARDIS	26.10.1995	
Investigator	Date	<u> </u>
If you would like to receive a copy of voucher as a token of appreciation to recthe questionnaire please fill in the details November.	compense you for t	he time spent to complete
Name:	·	
Firm:		
Address;		



Major Fraud Group 2nd Floor 549 St. Kilda Road MELBOURNE 3004

16 October 1995

#### TO WHOM IT MAY CONCERN

I write to strongly support Mrs Maria KAPARDIS applied research into fraud detection and prevention.

The research has the formal approval of the Victoria Police and the full cooperation of the Major Fraud Group.

I am of the view that the results of Mrs. KAPARDIS' research will make an original and substantial contribution to knowledge and will be of practical use to both the accounting profession in general and auditors in particular as well as to law enforcement agencies. I therefore urge you to participate in this study.

A.J. BOWLES, LL.B. Commander Major Fraud Group





# QUESTIONNAIRE

#### PART I

1.

in your experience as auditor?

If as an auditor you have encountered any irregularities during the last 5 years please provide summary information about each type of material and immaterial irregularity experienced:

fregularities comprise: fraud, other illegal acts, other acts, intentional but not fraudulent or other illegal misstatements, and errors.

How many times have you come across material and immaterial irregularities

		•					
	material		immat	erial		<del></del>	
2.		vide summary encountered b				erial and	immaterial
	other and to	duct/ethics/praction the organisation ould cover areas l	itself and it e	xpresses a	moral dimens.	ion to the a	
A.	management) of inventory/p	Fraud (i.e., an act verge, expense according and large and archase, diversion	ount, conflict of kiting, inform	f interest, ki pation, false	ickbacks, purc : financial stat	hase for pers tements, pha	sonal use, theft intom vendors,
#	Describe the irregularity	# Times encountered	Industry the client operated in	what alerted you	effective internal controls y/n	code of conduct existed y/n	material financial impact on the accounts y/n
-							
2		_					
3							
4					:		

B. Employee froud (an act which involves the use of deception to obtain an illegal advantage by an employee) e.g., cheque forgery, expense account, conflict of interest, kickbacks, purchase for personal use, theft of inventory/plant, petty cash fraud, lapping and kiting, information, patent infringement, other.

#	Describe the irregularity	# Times encountered	Industry the client operated in	what alerted you	effective internal controls y/n	code of conduct existed y/n	material financial impact on the accounts y/n
1	þ						_
2	•						
3							
4							

Other Illegal Acts (i.e. acts which involve non-compliance with laws and regulations which may, or C. may not, result in misstatements including omissions of amounts or other disclosures from an entity's

accounting records or financial reports)

#	Describe the irregularity	# Times encountered	Industry the client operated in	what alerted you	effective internal controls y/n	code of conduct existed y/n	material financial impact on the accounts y/n
1							
2							
3							
4							

 Other acts which contravene the constitution of an entity including non-compliance with trust deeds or memorandum and articles of association;

H	Describe the bregularity	# Times encountered	Industry the client operated in	what alerted : you	offective internal controls y/n	code of conduct existed y/n	material financial impact on the accounts y/n
1							
2					. (		
3				!			
4							

E. Intentional, but not fraudulent or other illegal misstatements which include omissions of amounts or other disclosures from an entity's accounting records or financial reports.

#	Describe the irregularity	# Times encountered	Industry the client operated in	what alerted you	effective internal controls y/n	code of conduct existed y/n	material financial impact on the accounts y/n
1							
2							ч
3							
4							

F. Errors which are unintentional mistakes in, or omissions of amounts or other disclosures from, financial reports.

#	Describe the irregularity	# Times encountered	Industry the client operated in	what alerted you	effective internal controls y/n	code of conduct existed y/n	material financial impact on the accounts y/n
1							
2							
3							
4				y			

PA	RT	' 77

.7

Please provide detailed in	nformation about <u>ONE</u> material irregularity
----------------------------	---

- (i) detected by you□,
- (ii) or your firm □,
- (iii) or one that you have worked on □ (please tick as appropriate.

Please	lease describe l		the irregularity		was committee		
				<u> </u>			
			·	· · · · · · · · · · · · · · · · · · ·			
				······································		<del></del>	

2.	Who was involved in the ir	regulai	rity (please tick)	
	Director(s) Shareholder Middle management Others below management		Other top management CEO CFO Chief Accountant	_ _ _
3.	Please tick the appropriate	indust	ry and status of the client.	,
	Public Company		Private Company	
4.	No industry designation Agriculture, Forestry and Fis Mining Manufacturing Electricity, Gas and Water S Construction Wholesale Trade Retail Trade Accommodation, Cafes and Transport and Storage Communication Services Finance and Insurance Property and Business Service Government Administration Education Health and Community Serv Cultural and Recreational Se Personal and Other Services Audit Areas affected by th applicable):	upply Restaur ces and De ices rvices		an one box, if
	Cash Receivables Investments Inventories Other Current Assets Share Capital Reserves Retained profits or accumula Related Party transactions Other (please specify)	ited loss	Property, plant and Intangibles Other Non-Current Creditors and borro Provisions Other Current Liabi Non-Current Liabil	Assets D wings D

 ${\cal Q}$ 

Over what 3 months,			l this n	naterial	irregula	rity be	en com	mittec
Please tick	the audi	t proce	dures f	irst ind	icating tl	e irre	gularity	y <b>.</b>
Not discove	ered by au	ditor						
Preliminary								
Study/evalue Analytical								
Substantive			counts	1				
Use of the	checklist i	n AUP	16					
No procedu	ıre design	ation					:	
Who detec	ted the ir	regulai	rity eor	ncerned	(please t	i/d <b>k).</b>		
Assistant		Senio	г□	Supe	rvisor	₽		
Manager Other(pleas	□ se specify	Partn	er 🗆	Frau	i auditor	<u> </u>	_	
If a "frau irregulari A fraud audi preventing fra Yes	<b>ty would</b> for is some	have be	en dis	covered	carlier.		-	
Profiling o	f the Per	petrato	r					. '11
A. Sex		М			•	F		
D 4	mate Ana							
T) A	mate Age		_				4	
B. Approxi	_							
C. Education	_							

D. Marital Status:								
Married Divorced		Single Separa			I+			
E. Vices of the perp	etrator:							
Gambling Drugs/Alco Personal Fir Other (pleas	nancial P	ressures	yle					
F. Please provide characteristics (e.g.		arian, int	rovert, l	oner, e	tc)	s main pe	rsonality	
19	<del></del>							O
G. Please outline of	her impr	essions y	ou have	of the	perpetrat	ог		
						_	<u> </u>	
H. Number of acco	mplices:							
One □ >Three □		Two N/A			Three			
 			lauie. u	. m a wto.	196	may tiale m	one them	
nce detected to whom ne box)	ii was ui	ic ii regu	загцу г	chorre	1 / (you	шау иск п	ioie mini	
CEO Board of Directors ASC Other				Comm Fraud		_ 		j.

# Please indicate which of the following "Red Flags" (fraud indicators) existed with respect to the material irregularity discussed in the previous section.

Please note: Only tick if your answer is yes and you might have more than one tick

Business Environment	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the irregularity	(Red Flag) Alerted me during the planning phase
Nature of the business is susceptible to misappropriation			
Unduly influential circumstances		<u> </u>	
Pressure to meet forecasts			
Weak management integrity			_
Ineffective/ non-existent regulation by external parties			
Survival of company dependant on irregularity(ies).			
Ineffective or non-existent code of conduct			
Transactions with related parties not at arm's length			
Unusual transactions with companies registered in tax havens		·	
Liquidity pressure			

Internal Control Structure	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the irregularity	(Red Flag) Alerted me during the planning phase
Organisation is decentralised without adequate monitoring			
Management override			
Ineffective management			
Lack of segregation of duties			
Weak internal controls			
Excessive authority vested in a senior officer			
Poor systems			
Ineffective internal audit	'(		

Integrity/Competence of Management	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the irregularity	(Red Flag) Alerted me during the planning phase
Domineering management			
Complex corporate structure			
Continuing failure to correct internal control weaknesses			
High executive staff tumover			
Significant/prolonged understaffing of the accounting department			
Frequent changes of lawyers	•		
The client has engaged in opinion shopping			
The auditor's experience with management indicates a degree of dishonesty			
Internal audit is improperly staffed			

Unusual Pressures within an entity	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the Irregularity	(Red Flag) Alerted me during the planning phase
Inadequate working capital			
Deteriorating quality of camings	\ <u></u>	L	
A need for a rising profit			
A significant investment in an industry noted for rapid change			
Entity heavily dependent on a product or a customer			
Management displays an overly aggressive attitude toward financial reporting and forecasts			
Pressure exerted on accounting personnel to complete financial reports in unusually short periods			

Unusual Occurrences/Fransactions	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the Irregularity	(Red Flag) Alerted me during the planning phase
Unusual balance date transactions		. •	
Payments for services that appear excessive in relation to services provided			
Payments for goods which appear to be above/below market price			
Evidence of falsified documents			
Large Cash payments			
Payments made to local or overseas officials			
Problems with regulatory authorities			
Ignored advice by legal adviser			
Evidence of unduly lavish styles by officers or employees			
Investigations by police			

Unsatisfactory Records/Problems in Obtaining Sufficient Appropriate Audit Evidence	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the irregularity	(Red Flag) Alerted me during the planning phase
Inadequate accounting records			
Inadequate documentation			
Excessive number of differences between accounting records and third party confirmations			
Evasive, unreasonable or unsatisfactory responses by management to inquiries			
New client without sufficient information from predecessor auditor.			"
Conflicting audit evidence and inexplicable changes in operating ratios.			
Significantly fewer responses to confirmation requests than expected			

Market Pressures	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the irregularity	(Red Flag) Alcried are during the planning phase
Declining industry			
Industry subject to complex legislation			
Volatile industry with numerous corporate take-overs			

Factors Relevant to an EDP Environment	(Red Flag) Applicable to the engagement	(Red Flag) Relevant to the irregularity	(Red Flag) Alerted me during the planning phase
Minimal planning for the installation of new hardware			
Inadequate computer skills amongst relevant entity staff			
Inappropriate hardware or software to perform important functions			
Poor physical or logical access controls			
Inadequate or inappropriate file access hierarchy			:
Lack of clear audit trail and transaction log			
Hardware failures, including excessive amounts of down-time and resultant input backlogs			
Software failures			
Failure to restrict access to software and documentation to authorised personnel			
Program changes that are not documented, approved and tested			
Inappropriate data and program storage media			
Inadequate detection procedures for system viruses.			
Inadequate overall balancing of computer transactions and data bases to the financial accounts			
Shared or non-specific ownership of data			

# PART III

# TO BE COMPLETED BY ALL RESPONDENTS

(1)	ACT□ QLD□ NSW□	NT□ SA□	TAS□ VIC□ WA□	I
(2)	Male □	Female		
(3)	Current Position: Financial Auditor Forensic Accountant Public Sector Auditor	_ _ _	Fraud Auditor Internal Auditor	
(4)	Number of Years of experie	nce as an audi	tor	
(5)	Position in the Partnership	(e.g., senior, su	pervisor etc)	
(6)	Number of Years in current	t position		
(7)	Approximate number of en	gagements wo	rked on	
(8)	Industry specialisation as a	n auditor (YO	U MAY TICK MORI	E THAN 1
Agrico Minin Manui Electri Consti Whole Retail Accon Transj Comm Financ Proper Gover Educa	dustry designation alture, Forestry and Fishing g facturing icity, Gas and Water Supply ruction esale Trade Trade nmodation, Cafes and Restaura port and Storage nunication Services ee and Insurance rty and Business Services mment Administration and Defition		0000000000000000	<b></b>
Cultur	and Community Services all and Recreational Services			

(9)	Type of audit	t firm you wa					
	Big 6 Small firm		Medium Tier Not Applicable		•		
(10)	Tick if your [	practice prov	ides,			,	Mit.
	Fraud auditor If no then ple		Forensic accountant estion 13.				di,
(11)	Qualification	s of fraud au	ditor		•		
	Chartered Acc Psychologist Other (please		Company Au Criminologist				
(12)	Qualification Forensic Account court action.		Accountant Involved in the investigation ar	id the gati	hering of evid	lence for c	a claim or
	Chartered Acc Psychologist Lawyer Other(please s		Company Au Criminologist				
(13)	Times in the auditor	last 12 men	ths you/ your clients r	eguired	the servi	ces of a	a fraud

#### Appendix II

# RESPONDENT CHARACTERISTICS AND BACKGROUND INFORMATION

State residing Victoria (40%), Queensland (17%), NSW (15%), South Australia (15%), Western Australia (8%), ACT (3%) and Tasmania (2%). The participants were predominately males (85%) holding manager position (39%), partner (28%), senior (13%), supervisors (12%), Assistant managers (8%).

%

i. Current Position:as an auditor

Financial auditor	82
Public Sector auditor	7
Fraud auditor	7
Internal auditor	4

ii. Number of years experience as an auditor:

Years	%
3-10	58
11-15	17
16-25	17
>25	8

iii. Number of years in in current position:

Years	%
1-3	62
4-8	24
9-15	7
>15	7

iv. Approximate Number of engagements worked on

No. of engagements	%
10-50	48
51-100	27
>100	25

Most seniors were at that position for one year mainly (94%), similarly for managers who had been at that position for twelve months (60%), or two years (35%). The partners who responded had a spread of number of years at that position, 30% for the first year, 27% for two years, 18% for the third year and 25% for the fourth year.

## v. Industry specialisation:

No industry	
designation	19
>3 industries	67
Finance and Insurance	6
Manufacturing	4
Mining	2
Public sector	2
	1

# vi. Type of audit firm participant worked in.

Big Six	73
Medium Tier	16
Small Firm	4
Public Sector	6
Internal Auditor	1
	,-

### Appendix III

# Coding Guide Used for the MFG Study.

Gender; marital status; iii. age in years; iv. ethnicity; occupation; ٧. vi. main types of fraud committed; vii. number of non fraud offences charged; viii. type of non fraud charges; ix. fraud charges summary; x. under what law fraud charges; xi. number of fraud charges; xii. number of victims; xiii. relationship with victims; xiv. number of accomplices; who suspected the fraud; XV. xvi. versatility of offender; xvii. how many months did it take to prosecute; xviii. motivation; xix. type of plea; pre-trial status; XX. xxi. legally represented or not; xxii. type of legal representation; xxiii. court of first instance; xxiv. main sentence imposed; severity of sentence; XXV.

prior offence;

amount involved.

xxvi. xxvii.