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Article (Accepted version) (Refereed)

Original citation: Schonhardt-Bailey, Cheryl (2017) *Nonverbal contention and contempt in UK parliamentary oversight hearings on fiscal and monetary policy*. [Politics and the Life Sciences](#), 36 (1). pp. 27-46. ISSN 0730-9384

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Available in LSE Research Online: May 2017

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Nonverbal Contention and Contempt in UK Parliamentary Oversight Hearings on Fiscal and Monetary Policy

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Forthcoming in *Politics and the Life Sciences*

(Pre-publication manuscript, May 2017)

Abstract: In parliamentary committee oversight hearings on fiscal policy, monetary policy and financial stability, where verbal deliberation is the focus, nonverbal communication may be pivotal in the acceptance or rejection of arguments proffered by policymakers. Systematic qualitative coding of these hearings in the 2010-15 UK Parliament finds that: (1) facial expressions, particularly in the form of anger and contempt, are more prevalent in fiscal policy hearings, where backbench parliamentarians hold frontbench parliamentarians to account, than in monetary policy or financial stability hearings, where the witnesses being held to account are unelected policy experts; (2) comparing committees across chambers, hearings in the Lords' committee yield more reassuring facial expressions relative to hearings in the Commons' committee, suggesting a more relaxed and less adversarial context in the former; and (3) central bank witnesses appearing before both the Commons' and Lords' committee tend towards expressions of appeasement, suggesting a willingness to defer to Parliament.

**Research funding from the LSE Suntory and Toyota International Centre for Economics and Related Disciplines is gratefully acknowledged. The paper has benefited greatly from audience feedback at the Text as Data Conference, the European Political Science Association Conference, the Political Studies Association Conference, and at LSE Government Department seminars. I am particularly grateful to Erik Bucy for his encouragement, advice and extensive suggestions for improvements to this research, as well as to anonymous referees, who were generous with their time and expertise. The dedication of my research assistants (Gordon Bannerman, Jack Winterton and Richard Glasspool) was essential to the success of this project. I am also grateful to Mark Thatcher and Christian List for their suggestions.*

**Nonverbal Contention and Contempt in UK
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“To me, public accountability is a moral corollary of central bank independence. In a democratic society, the central bank’s freedom to act implies an obligation to explain itself to the public. ... While central banks are not in the public relations business, public education ought to be part of their brief.” (Alan Blinder, Princeton University professor and former vice chairman, Federal Reserve Board [1])

“We made clear as a committee that we were going to look at the distributional impact of the budget in unprecedented detail. As a result, George Osborne responded by giving a lot more detail not only in the budget but also when he came before us. And there were some pretty vigorous and detailed exchanges about the distributional impact of the budget in that hearing. I think everybody gained from that experience. It certainly enabled a wider public to find out exactly what was going on in the budget and the Government was forced to explain its actions.” (Andrew Tyrie MP, Chairman Treasury Select Committee, commenting on Chancellor Osborne’s first budget [2])

Public officials in modern democracies are conscious that their decisions and actions should be and are subject to scrutiny in the public domain. In the United Kingdom, this scrutiny is a statutory requirement and is conducted in formal parliamentary committee hearings. In economic policy, two very different sets of actors are routinely scrutinized by select committees: (1) officials of the Bank of England—who are not elected but appointed—are held accountable by committees in Parliament for their decisions in pursuit of their objectives towards monetary policy and financial stability; and (2) elected ministers from the UK Treasury are similarly held accountable for their objectives towards fiscal policy by these same parliamentary committees. The two quotes above—the first relating to monetary policy oversight and the second relating to fiscal policy oversight—highlight what might be considered the key priority for public accountability, namely the obligation to *provide explanations for objectives held and decisions taken*. In short, legislative hearings entail parliamentarians probing both central bankers and Treasury ministers; reasoned argument is therefore central to the purpose and focus of the hearings—that is, they are intended as a deliberative forum.

To be clear, “accountability” refers here to the requirement that policymakers are held to account for their decisions; they are obliged to explain and justify their decisions, *ex post facto*. This use of accountability presupposes a reciprocal dialogue and crucially, necessitates a judgement on the effectiveness and persuasiveness of the policymaker who is being held to account. [3: 951] Thus, the policymakers face questions and the parliamentary committees render judgments.

Notably, the concern here is with the explanations and justifications aspect of accountability, and as such, the focus is on the deliberative component of accountability, rather than the implications

or consequences of any judgements (e.g., sanctions, penalties or other consequences of judgements are not explored in this project). Moreover, the “judgments” of parliamentary committees are not in the form of votes (at least in respect to oversight hearings), but rather are on-going and cumulative assessments of ministers and experts. In this way, both the deliberations and the judgments are *dynamic* and inherently *interactional*.

Although deliberation is at the heart of decision making within public policy, its contribution remains inherently hard to measure and assess within a systematic framework. One approach to studying deliberation empirically is to apply textual analysis to the verbatim transcripts from committee meetings. In studying American monetary policy decision making, this methodology has proven valuable for gaining insights into both the policy meetings of the Federal Open Market Committee and the conduct of oversight by congressional committees. [4] In a similar fashion for the UK, transcripts of both the Treasury Select Committee and Lords Economic Affairs Committee hearings on monetary policy, financial stability and fiscal policy [5] were analysed over the period from 2010 to 2015 (i.e., the previous Conservative-Liberal Democrat Government). The 2010-15 Parliament is especially important for select committee activity, given the much greater prominence of these committees following the key reforms of 2010 which among other things, created the election of committee members and chairs, thereby stripping the power of the party whips to appoint these members and thereby lent the committees greater autonomy in holding the Government to account [6], and even (more rarely) triggering resignations by top officials (most recently, the resignation of a newly appointed Bank of England deputy governor [7]).

The findings from textual analysis are instructive as to the depth and breadth of arguments used by policymakers in their defence of policy actions. In particular, this analysis finds that deliberation in fiscal policy hearings contrasts sharply with deliberation in monetary policy and financial stability hearings, and moreover, the deliberation conducted by MPs in the Commons committee also contrasts systematically from that conducted by peers in the Lords committee. The *context* for these differences in content will be described further below, but the point here is that while textual analysis is effective in empirically measuring the deliberative *content*, it provides no information as to the *delivery* of these arguments within a deliberative setting. In short, the written

record provides us with the semantic content of deliberation, but not the underlying interpersonal dynamic of the committee hearing. Measuring nonverbal behaviour promises a means to gauge better both the emotive tone of the arguments but also the nature of the intentions of the witnesses appearing before each committee, witnesses whose credibility and intentions with respect to public policy are being judged by parliamentarians. It is this interactional dynamic that this paper seeks to assess.

To be sure, the study of nonverbal communication in political contexts is extensive. For example, televised debates of national leaders are frequently used to examine the effects of nonverbal communication on political attitudes and responses. [8-10] While the effects of visual cues by political leaders are noted in political election campaigns,[11] [12-14] to date there has however been little attention paid to the role of nonverbal communication in legislative committee hearings.

Methodologically, the goal here is to bring research from interpersonal communication studies, political psychology and political ethology (behaviour) into the study of committee deliberation, and to show that nonverbal communication can play a potentially important role in government accountability. Indeed, there are strong biological and cognitive reasons why information gleaned from nonverbal means should be evaluated on par with that from verbal communication. To name but a few, the human brain is both more specialized and faster in processing visual information than it is in processing written/verbal information, and cognition is easier for the former than for the latter. [15] Verbal language is also a relatively recent phenomenon in human history (in written form, “just 5,200 years”) relative to the millions of years’ history of visual perception. In short, the evolutionary development of the brain suggests that its adaptive ability to absorb visual information is far more advanced (in evolutionary terms) than for written and spoken communication. [15: 12] Elsewhere, communication scholars have long argued that verbal and nonverbal behaviour work together in the process of communication.[11: 11, 20] Empirical investigations into the quality of deliberation in public policy accountability which focus solely on verbal exchanges thus risk missing the role of nonverbal behaviour in shaping such fundamental features as the credibility and trustworthiness of witnesses being held to account for their policy decisions, and more broadly, these investigations risk studying just a portion of the actual messages that are being conveyed.

Moreover, nonverbal messages may influence—either consciously or not—the attitudes and behaviours of select committee members, particularly in the form of persuasion. As Bucy notes, nonverbal behaviour “may prime later judgments about political viability and shape the criteria by which [in this paper, witnesses] are evaluated.” [16] In legislative committee settings, where verbal deliberation is the focus, nonverbal communication may be pivotal in the acceptance or rejection of arguments proffered by policymakers. This study offers an initial assessment of the role of nonverbal cues in parliamentary committee oversight hearings on economic policy. Viewed from the traditional Lowi policy typology, [17, 18] where political relationships and conflicts are shaped by people’s expectations of policy outputs, one might expect to find more ideological/partisan conflicts in fiscal policy hearings than in either monetary policy or financial stability hearings, as the former aligns with clear partisan cleavages whereas the latter two policies are less overtly partisan in orientation. Moreover, a pertinent feature of the UK parliamentary system is that in fiscal policy hearings, backbench parliamentarians (the legislature) hold front bench parliamentarians (the executive) to account, which invariably generates more partisan tension than in hearings between parliamentarians and unelected (and ostensibly non-partisan) experts such as central bankers. Hence, while one might expect the argumentative *content* of fiscal policy discussions to be more ideological and partisan than for monetary policy or financial stability, neither Lowi nor his followers explored how perceptions and judgments of this content might be influenced by the *delivery* of this content, and so this aspect of the policy divide is as yet unexplored.

The Significance of Nonverbal Communication in Parliamentary Hearings

Broadly speaking, persuasion may be the product of (1) the content of the argument (e.g., its logic, its evidence, whether it difficult or easy to understand [19]); (2) the way in which it is structured or framed; [20, 21] or possibly (3) the way in which it is delivered. It is in the delivery of an argument that nonverbal cues become potentially relevant. While persuasion is not measured directly in this paper, we do examine the nonverbal context (e.g., combative versus relaxed) in light of the potential for persuasion to occur—i.e., it is worth considering the extent to which nonverbal behaviour may facilitate the persuasiveness of an argument or a committee witness more generally, as well as how this behaviour may affect the deliberative process.

Within the broader literature on deliberation, the emotive aspects of nonverbal communication are typically ignored in favour of the more rational, more *deliberative* aspects of communication. And yet, as Kahneman famously notes, psychologists have long noted two modes of thinking, one that is instinctual and “operates automatically and quickly, with little or no effort and no sense of voluntary control,” and one that is methodical and deliberative, thereby taking time, mental effort and concentration. [22: 20-21] By focusing on nonverbal communication, we are allowing for the influence of “fast” thinking and behaviour on our “slow” decision-making processes—particularly in the form of persuasion. For instance, as a component of nonverbal communication, rapid appearance-based assessments of candidates (linked to competence and dominance) are shown to be a strong predictor of electoral success. [23] Indeed, if we interpret nonverbal communication as a form of “fast” thinking and behaviour, the visual stimuli inherent in this form of communication may well outweigh the slower, rational and verbal forms of communication. In reviewing both the evolutionary and biological bases of the visual processing of information, Grabe and Bucy note that “(c)ontrary to the preferences of political theorists for a rationally engaged public that relies on reason and deliberation to make informed decisions, visual experience remains the most dominant mode of learning.” [15: 12-13]

Beyond affecting the persuasiveness of speakers and their arguments, there are other reasons to anticipate nonverbal communication to be a fruitful avenue of research. One reason is that whereas speech is deliberate and sometimes scripted, nonverbal communication is far less conscious: “People are formally trained in their verbal behaviour in the schools. Nonverbal communication is less obvious, as in subtle facial expressions and barely perceptible changes in voice tone, and people are not typically formally trained in their nonverbal communication.” [24: 8] Admittedly, politicians and officials often undergo some media training before giving evidence in parliamentary hearings (as well as for other official engagements) and most are practiced public communicators. Hence, we might expect their nonverbal communication (as well as their verbal communication) to be more controlled. It is nonetheless unlikely that such training entirely negates the tendencies of these individuals to allow their own innate mannerisms and emotions to find expression. Consequently, even subtle facial expressions, gestures and other signals such as voice may provide important insights into not only the

intentions of committee members, but also the competence, trustworthiness and credibility of the witnesses who are being held to account.

Interpreting Nonverbal Communication

Emotions versus signals

The extent to which nonverbal behaviour “signals” the strategic intentions of the sender is, however, disputed, particularly in the literature on facial expressions. On the one hand, such behaviour might serve as a visual manifestation of an individual’s emotions—i.e., a spill-over or leakage of some discernible internal emotion(s). [25] Core emotions are said to be “associated with unique physiological signatures in both the central and autonomic nervous systems,” and are, moreover, “expressed universally in all humans via facial expressions regardless of race, culture, sex, ethnicity, or national origin.” [26: 25] Seven emotions—anger, disgust, fear, joy, sadness, surprise and contempt—are each said to produce unique and identifiable facial expressions. [27] This causal link between the face and internal emotions has been, however, challenged on a number of fronts including the categorization of complex emotions into single facial expressions and the tendency to overlook *context*.

In contrast to the emotions view of faces, a second interpretation is that facial expressions are employed as social devices to manage interpersonal and intragroup encounters. This approach stems in part from animal communication, where animals “signal” a behavioural intent—such as to attack or to appease—as a means to negotiate conflict and cooperation with other animals. [28] [29] This behavioural ecology approach maintains that both intention and context are essential to the interpretation of facial expressions. [30] For example, an angry face conveys a readiness to attack while a contempt face is a way to express superiority. [30] And yet, some facial expressions like smiling may in fact convey a combination of emotions—e.g., a genuine (“felt”) smile may signify a willingness to befriend or to play, but a feigned (“false”) smile may signify readiness to acquiesce or appease, or this phony smile may mask some underlying negative emotion (such as anger). [14] Contempt can also be conveyed in a “controlled half smile” by which an individual signals tolerance but not acceptance of some other group member. [14]

The social and political significance of facial expressions may thus be categorized as intent to attack or threaten (anger face), reassurance or willingness to socially bond (happiness), appeasement (sadness), or intention to flee/submit (fear), and each of these have been identified in the facial expressions of televised politicians. [31] [13] [14] The socio-political significance of this typology becomes clear when it is subsumed into two broader typologies of social interaction or behavioural types—agonic and hedonic. [32] In agonic interactions the actors are in direct competition for power and so in an effort to maintain social order, one might submit to or appease the threatening actor. In hedonic encounters, actors are more relaxed (even playful), in pursuit of social bonding and alliance building or to reassure/reinforce social status. Facial expressions (and other nonverbal behaviour, like posture [33]) are thus indicative of dominance hierarchy [11] [13] and can serve to signal either cooperative or non-cooperative intent. For instance, in a one-shot anonymous prisoner's dilemma game, contempt expressions have been found to predict defection by the sender, while genuine smiles signify cooperative intention. [34] An important caveat to the behavioural ecology approach is that nonverbal messages conveyed by a communicator do not elicit identical emotional responses in all receivers, as the effect of the nonverbal signal is shaped by prior attitudes and the context in which the behaviour occurs. [13] Moreover, some people are simply better at “decoding” the signals of nonverbal behaviour, as studies of gestures has shown. [35]

The emotions and behavioural ecology interpretations are sometimes depicted as if they are in conflict, with disagreement on facial expressions including “their clarity, specificity, extent of their innateness and universality, and whether they relate to emotions, social motives, behavioural intentions, or to all three.” [25] Nonetheless both rely on the evolutionary literature (e.g., Darwin [36]) and in the end converge on the assessment that facial expressions function to communicate information. [25]

Facial Expressions, Vocal Cues and Gestures in Parliamentary Oversight

Once investigation turns to the empirics of nonverbal communication, the analytical and methodological framework encounters significant hurdles, not least of which is the appropriateness of the data to be examined. One might, for example, begin quite broadly by measuring the static visuals of the setting, such as the committee room, seating arrangement, lighting, temperature and so on, as

some communications scholars have done. [11] For simplicity, here the focus is on three primary forms of dynamic nonverbal communication: *facial expressions*, *vocal cues*, and *body movement/gestures*. These key aspects of communication are shown to be highly effective in gauging behaviour by political actors whose appeals to voters are being televised,[15] although the largest attention in the literature has been given to facial expressions.

The political significance of facial expressions is aptly summarized by Stewart and colleagues: “*The face has long been appreciated as a focal point of attention by those competing for positions of power* and then for maintaining influence once power has been attained. In large part, this is caused by the ability leaders have in communicating their emotional state and behavioural intent nonverbally to followers ...[italics added].” [14] The previous section has focused predominantly on facial expressions for the simple reason that competition for power (and jockeying for political position) is at least a subtext of parliamentary committees that seek to hold Government to account. While there is no overt competition concerning policy per se, oversight itself contains an element of competition over the influence and direction of policy decisions. In the case of unelected central bankers, there is a recognition that independence of the central bank is not absolute—typically governments set the goals while central banks retain discretion over how to pursue these objectives (i.e., independence to choose the appropriate instrument(s)). [1] Moreover, it is by parliamentary statute that the Bank of England’s Monetary Policy Committee and Financial Policy Committee exist and in theory, Parliament could abolish these independent committees.

Thus, when central bank experts appear before parliamentary committees, they are invariably cognisant of their politically dependent existence. In contrast, the situation is more overtly competitive in fiscal policy hearings. The primary witness in these proceedings is the Chancellor of the Exchequer, who—like members of the Treasury Committee—is himself a Member of Parliament. There is no statutory independence given to either the Treasury or to the Chancellor himself. Moreover, as noted earlier, fiscal policy is inherently more partisan in nature than monetary policy, thus further exacerbating the competitive nature of these hearings. Broadly speaking, then, we might expect fiscal policy hearings to feature more competitive (agonic) nonverbal facial expressions, and monetary policy and financial stability hearings to showcase expressions of a more reassuring

(hedonic) nature. Employing a behavioural model of leader-follower interactions, [37] we might expect dominant individuals (leading committee members) to invoke threatening facial expressions (e.g., anger) and the *presumed* subordinate (the Chancellor) to display more submissive or appeasing emotional expressions like sadness or fear. (Select committees may presume that witnesses from the Government—e.g., the Chancellor—are in a subordinate role when being held to account before the committee; however, as part of the executive, the Chancellor himself may dispute his subordinate role before the committee.)

A non-competitive setting would predict different facial expressions: dominant individuals (committee members) should seek “to enhance group affiliation by reassuring subordinates [here, witnesses from the Bank of England] through facial displays of happiness, while subordinates ... will display submissiveness through appeasement gestures such as sadness.” [37] The presumed motivation in both settings and by both sets of actors is to regulate relations within the group (here, committee members and witnesses) and for each set of actors to maintain their status within the group setting; [32] nonverbal behaviour thus functions to regulate intragroup relations.

Turning to vocal cues, research (and consensus) on the emotional significance or interpretation of vocal expressions is less developed than for facial expressions. [38: 63] Indeed scientific research into the voice is said to be in “its infancy.” [39] Nonetheless identifiable characteristics of nonverbal vocal cues include pitch, loudness, the quality or “timbre” of the speaker’s voice, rate of speech, amount of time spent speaking, response time (how long it takes person A to respond to person B), time spent pausing between words, and errors in speech. [38: 58-59] Such characteristics are relevant for parliamentary committee deliberations inasmuch as listeners remember better (and are more persuaded by) information if the pitch and amplitude are varied, and persuasion is further increased when the speaker pauses less frequently, spends less time in his or her responses, and speaks more quickly. [38: 67] An alternative focus of research is on the vocal cues of audiences, including laughter and booing of presidential debates audiences, [40] [41] or the link between the interruptions by Supreme Court justices during oral argument and their judicial voting behaviour. [42] Others have examined Supreme Court oral argument even more closely, with

attention given to such features as speech rate, speech disturbances, the valence of expression and related factors, [43] and to vocal cues between a Justice and a lawyer. [44]

Beyond facial expressions and voice, gestures and body movement comprise a third influential mode of nonverbal communication. Among other functions, gestures help to illustrate speech (e.g., pointing and saying “there”; nodding and saying “yes”) or serve as “emblems” in place of words (e.g., thumbs up for “okay,” shoulder shrugging for “I don’t know/care”). [45: 76-79] In contrast to the biological underpinnings for facial expressions and vocal cues, however, emblematic gestures are culturally learned and are therefore less clear-cut to study and interpret. Illustrators may serve a more universal purpose by communicating greater intensity: as Bull notes, “a speaker can pick out particular words or phrases which may be important in his communication, and highlight them with some kind of illustrative body movement.” [33] Illustrators may also serve as a visual means for viewers to track the flow of speech and, with this greater stimulation, better comprehend speech. [46] Alternatively, illustrators might actually convey more about the speaker’s emotions regarding message content or attitudes towards one’s audience. [33] Studies have also found systematic effects on voters’ evaluations from differences in the use of gestures by female and male politicians, [47] although in the present study, women do not feature prominently either as witnesses (where the two Governors and the Chancellor are male) or as committee chairs (again, both are male).

For the purposes of this paper where the focus is on nonverbal communication in a deliberative (verbal) context, two difficulties in measuring and coding gestures are relevant. First, viewers are not equally adept at capturing the informative content of gestures: “research has ... demonstrated that some people seem to miss out on ... information in the gesture channel almost completely; others are tuned in to it and quite unconsciously process this important information along with the speech itself.[35] Second, viewers of gestures are highly selective about which gestures are actually “seen,” in part because our natural focus is on the face, where attention gravitates. [35: 150] In any case, the study of gestures in politics is increasingly capturing the attention of researchers across many disciplines, including political science, history, philosophy and psycholinguistics. [40, 48-50]

Measuring Nonverbal Communication in Parliamentary Committee Hearings

As noted, the purpose of the present research is unique in that it seeks to capture the interactional dynamic of the deliberation between a series of questioners (parliamentarians) and a series of witnesses, particularly as collective groups. Unlike many empirical investigations of nonverbal behaviour discussed earlier, the subjects of investigation are engaged in a reciprocal form of communication: rather than giving speeches, they are asking and answering questions—they are not directing their words and actions *at* some passive audience but rather engaging *with* and reacting to one another. This means that the empirical focus is the exchange between two actors (a committee member and a witness), repeated with new sets of actors (or a new committee member and the same witness), for the duration of each committee hearing.

A casual observer might easily dismiss nonverbal behaviour in parliamentary hearings, concluding that what really matters is the verbal arguments and discussion. Even anecdotal evidence illustrates that this is not necessarily the case. In March 2014, one hearing raised the spectre of a possible major transformation in the conduct of the Bank of England's Monetary Policy Committee meetings, through a substantial increase in the transparency of policy making discussions. During this hearing, Treasury Select Committee Chairman Andrew Tyre queried Paul Fisher (Executive Director for Markets and member of the MPC) and Mark Carney (Governor, Bank of England) on whether the Bank stored the verbatim transcripts of the MPC meetings, once these were summarized and published as minutes. The exchange became fodder for MPs and other Bank observers who have sought greater transparency from the Bank. As seen in the media attention given to this hearing (Figure 1), nonverbal communication plays a distinct role in capturing the underlying conflict between Parliament and the Bank of England (see highlighted text).

[Figure 1 – about here]

Examples of media and press attention to nonverbal behaviour in select committee hearings are not difficult to find, but as yet no attempt has been made to examine this behaviour more systematically.

Coding of Nonverbal Behaviour in Parliamentary Hearings

A pilot study for coding nonverbal behaviour was completed using five full hearings (each with a duration around two hours), from which a simplified coding structure was devised and implemented. Three research assistants (one with his doctorate and with over 15 years of research

experience, and two second-year undergraduates) then independently revised a scheme to systematically code specific nonverbal expressions and behaviour of key individuals for 12 hearings (comprising 23 total hours of video footage, all of which is publicly available from the UK Parliament website-- <http://www.parliament.uk/>). These hearings are a representative sample of the 37 total hearings on monetary policy, financial stability and fiscal policy in the Commons' Treasury Select Committee (hereafter, the Commons committee) and the Lords' Economic Affairs Committee (hereafter, the Lords committee), over the 2010-15 Parliament (see Appendix 1), which was the first parliamentary session to implement significant reforms which elevated them to greater prominence (e.g., the election of committee chairs), also lending them more autonomy in holding the Government to account.

While the total 37 hearings have been analysed in their entirety, using automated textual analysis and are reported in [5], the 12 coded hearings were selected in reasonably evenly distributed intervals across the 2010-15 timeframe, while factoring into account the (a) inherent imbalance in the distribution of hearings across types of witnesses (27 total hearings for Bank of England officials on monetary policy and financial stability versus ten total hearings for the Chancellor on fiscal policy) and across chambers (30 total hearings in the Commons' committee and seven in the Lords' committee), and (b) that the Lords' committee held no hearings specifically on financial stability during the 2010-15 Parliament. Thus, for Bank of England witnesses, eight hearings were selected (six for monetary policy and two for financial stability), and for the Chancellor, four hearings. Across chambers, ten were from the Commons and two were from the Lords.

Before beginning coding, the RAs underwent four on-line training courses on micro expressions and subtle expressions (all obtained from the Paul Ekman Group) and in each of the on-line tests, were required to achieve a success rate of at least 75%. The training focused particularly on identifying the seven basic emotions (joy/happiness, surprise, anger, contempt, sadness, fear, disgust), which are identifiable in facial expressions. The test stimuli were provided in the training packages. The RAs were also given a practical textbook [51] on "body language" to review and use as a reference for the gesture coding.

The coding proceeded as follows. For each hearing, each MP or peer's "turn" in asking questions was treated as a "deliberative exchange". For the most part, this consisted of a back and forth between one MP or peer and one witness, although it could include one or more witnesses. A single deliberative exchange may consist of between 5 to 10 minutes of questions and answers between a committee member and a witness. The term "deliberative exchange" is unique to this project and is used to distinguish it from the "turn-taking" concept, which is commonly understood to consist of an individual speaker taking a turn in a conversation, in a back and forth series of turns for an entire conversation. [52: 86] For each exchange, three basic dimensions were coded: facial expressions, vocal cues and gestures/posture. The coding scheme is summarized in Appendix 2. Facial expressions such as anger, contempt and happiness were counted as single instances (counts) and then tallied for each of the participants in the deliberative exchange. Similarly, vocal cues, such as variations in volume, speed, and pauses in speaking were also tallied by individual and across each deliberative exchange, as were gestures such as leaning forward, nodding or shaking the head. The bulk of the coding which is reported below is based on broad areas of agreement among the three coders. The threshold for agreement rests not on the numeric scores (counts) themselves but rather on the *relative* weights of the different types of witnesses (elected minister for fiscal policy versus unelected experts for monetary policy and financial stability) and of the two parliamentary committees (Commons versus Lords). As such, the coding is used largely as a qualitative assessment, and as a precursor to a larger, multi-method investigation which gauges more fully the *impact* of nonverbal communication in parliamentary oversight hearings.

Some attention is also given to where the coders disagreed. To be sure, measures for coding should avoid incurring inconsistencies arising from human idiosyncrasies, [53] and to the extent that the agreed results reported below are based upon a simple 100% agreement that one set of witnesses or committee exhibited *relatively more* nonverbal cues (anger, happiness, etc) than the other set of witnesses or committee, the bulk of the coding results do not report as findings any inconsistencies among the coders (and so, a measure such as Krippendorff's Alpha is not used). Studies do not usually discuss differences among coders (although exceptions include: Schubert and colleagues, who comment on a coder's "idiosyncratic tendency to overcode"; [43] and Bucy and Gong, who discuss

specific techniques for improving intercoder reliability and precision [9, 55-58]) and yet—as discussed earlier—receivers of nonverbal messages do not necessarily respond in similar ways, as these signals are conditional on pre-existing attitudes and the situational context of the behaviour, and some individuals are simply more adept than others in discerning the meaning of the signals. Finally, “stereotypical” university undergraduates have been criticized for being “socially compliant” and “more likely to be mercurial in their attitudes because of lack of self-knowledge.” [54] While this complaint is made in reference to undergraduates as research participants, the authors nonetheless argue that different cultural groups (and by inference, different age groups) vary in their perceptions of nonverbal communication. [54] It is worth, then, allowing here for the possibility that—in spite of having received the same training in coding nonverbal behaviour—a meaningful difference may still emerge between younger coders (aged 20-22) and another older coder (in his 40s).

Underlying the coding exercise was a premise that nonverbal behaviour helps to capture the extent of interest in the topic or the intensity of the discussion. (This is akin to motivational activation. [55, 56]) Witnesses who are more nonverbally expressive in hearings may be making greater effort to persuade the committee members (as studies of the use of gestures have shown [52]), or certain facial expressions may be expressing latent emotions.

Informed researchers in nonverbal communication may (quite rightly) note that software is beginning to be available for automatically coding facial expressions (e.g., Visage, FaceReader), and plausibly such software could be used in this instance, rather than human coders. There are three rebuttals to this argument. First, humans still outperform computers in interpreting the nuances and context of facial expressions, although the capacity of automation is no doubt rapidly evolving. [57] Second, no software as yet (of which I am aware) automatically codes facial expressions, vocal cues *and* gestures as a whole package. Third, software that codes all relevant aspects of nonverbal communication may well be around the corner; nonetheless, this does not negate the importance of obtaining human coding of the various categories, as observed in real world settings. Human coding may serve to first map the contours of nonverbal expression in parliamentary hearings, and subsequent automation may then rely on such human coding as a baseline. In short, human coders

may initially define the contours of nonverbal cues in parliamentary hearings, and software may subsequently refine or even challenge these outright.

A further response, which extends beyond this paper, is that the coding of the hearings is the first half of a research design which then supplements this with an experiment. In the experiment some participants watched selected footage from the twelve parliamentary hearings previously coded in their entirety by the three RAs, while a second group served as a control group, in that they only *listened* to recordings of these same hearings. Following completion of the nine videos and questions on these videos, participants met in groups to discuss their individual impressions of the witnesses, according to their likeability, competence and persuasiveness. Following these discussions, participants returned to their stations, and were asked whether the group discussion changed their initial impressions of each witness and if so, why or why not. This post-group element sought to gauge the extent to which participants were influenced by others to change their views, given knowledge of the views of fellow participants. This experiment—together with a qualitative analysis of about two dozen elite interviews with members of both select committees, and former witnesses from the Bank of England and Treasury—is added to the human coding of facial expressions, vocal cues and gestures.

Findings: Nonverbal Communication in Parliamentary Committees

The Context

Again, the focus here is on the delivery, rather than the content, of the discourse in the parliamentary hearings. Nonetheless, to understand the delivery some context is required. From an earlier analysis of the full verbatim transcripts of the 37 oversight hearings on monetary policy, financial stability and fiscal policy during the 2010-15 Parliament, variation in deliberation was found (1) between types of witnesses and types of economic policies; (2) between MPs and peers in their respective committees; and, (3) in partisan influence across different policy areas.

First, it was found that oversight varies between (a) members of the Bank of England's Monetary Policy Committee (MPC) and Financial Policy Committee (FPC) on monetary policy and financial stability, and (b) Treasury ministers and officials--primarily Chancellor George Osborne--on fiscal policy. The key difference is that hearings with Bank officials tend to exhibit greater reciprocity

in deliberation, whereas those on fiscal policy exhibit more of a “talking across” one another phenomenon. In monetary policy, both MPs and peers tend to enter into exchanges with MPC members on each theme discussed. In these hearings, many members on both sides of the table are able and willing to engage in discussion on multiple themes, rather than focusing on just one. In fiscal policy, the chancellor tends to speak to one theme, whereas committee members focus on other themes, and individually, these committee members tend not to focus on more than one theme. Deliberation in financial stability hearings exhibits more of a committee-level reciprocity—that is, FPC members and MPs speak to the same set of themes, but there is more topic specialization among the witnesses than in monetary policy.

Second, deliberative reciprocity is evident for both sets of committee hearings on monetary policy; however, in the Commons’ committee, members tend to speak to multiple themes, whereas in the Lords’ committee peers tend to focus on one theme. A key criterion for judging the quality of economic policy oversight is its degree of reciprocity. As Pedrini and colleagues explain, reciprocity in deliberation entails “both interactivity and respect. It involves an effort to listen to and engage with people with whom we disagree” [58]. Reciprocity therefore requires participants to “engage with one another” so that “they do not only give reasons *but listen and take up the reasons of other participants*” (italics added). [58]

Third, in the Commons, partisanship appears to vary across policy areas. In monetary policy hearings there is virtually no cleavage between the two main parties, whereas in fiscal policy, MPs of the minority party (Labour) tend to be more extensive in their questioning of the Conservative chancellor. For financial stability, a small amount of partisanship could be discerned in the greater tendency of Labour members to speak to the housing issue. (UK housing policy has become more ideologically contentious as escalating house prices in recent decades have made home ownership increasingly unaffordable. Hence, the provision of “social housing” for disadvantaged groups has evolved into discussions of appropriate welfare spending by government. [59])

Results

[Table 1, about here]

Table 1 provides the summary findings for the nonverbal coding. In Appendix 3, Tables A1 through A4 provide the details for the codings. Table 1 reports *only* where all three coders agreed on the *relative weights* across the witness type or the committee type. (In cases of a tie in the scores across groups, the determination of coder agreement relied on agreement of rankings by the other two coders.) These summaries correspond to Tables A1 to A4, where the findings highlighted in each table (in bold or underline) represent only where the coders agreed, and in italicized brackets, the degree to which one witness or group type was greater than another.

Table 1 begins with the aggregate means (corresponding to Tables A1 and A2), as grouped by witness type (Bank of England or Her Majesty's Treasury [HMT]); and by legislative chamber (Lords, Commons). The scores are presented for both the parliamentary committee members and the witness, and they aggregate across all the three types of nonverbal communication analysed here (facial, vocal and gesture). At the most aggregate level, fiscal policy hearings—in which the chancellor is the one key witness (with only marginal interjections from Treasury officials)—exhibit more nonverbal behaviour than hearings with Bank of England officials. For the facial expressions, the committee members in both chambers (MPs and Lords) and the witnesses have more coded facial expressions in fiscal policy hearings than Bank of England hearings. The same is true for witnesses when it comes to gesture scores as well. Finally, across chambers, peers score higher on vocal scores than do MPs.

What does this mean? For one, in fiscal policy—where ideological/partisan conflicts are more in evidence as redistributive effects are discussed—we find in the aggregate, more intense nonverbal behaviour than in monetary policy or financial stability. Bridging these findings with the textual analysis of the transcripts, we note that in fiscal policy hearings, not only do committee members and witnesses tend to “talk across” one another, they also become quite animated in doing so—perhaps in frustration with the failure to engage in a more reciprocal dialogue. In both monetary policy and financial stability, where testimony centres more on technical language, the deliberative exchange is far less animated and emotionally engaging between questioner and witness. Simply put, Chancellor Osborne's testimony is more partisan in orientation while that of the Bank's experts is more technical and, by implication, partisan language conveys more emotive cues than technical language. During

fiscal policy hearings the parliamentarians in both the Commons and Lords tend to reciprocate in kind with their own more frequent use of facial expressions. Moreover, Osborne also tends to use hand movement more frequently than Bank experts, which may suggest that he sought to persuade his fellow parliamentarians to a greater extent than did officials from the central bank. (Notably, while all the coders observed Osborne’s frequent hand movement, one coder scored these movements considerably higher, which supports Beattie’s earlier observation that some people are simply more attuned to “seeing” gestures than others.)

Across chambers, peers in the Lords’ committee tend to use more vocal cues than MPs in the Commons’ committee. Notably, Lords tend to be economic experts in their own right (e.g., former chancellors, such as Nigel Lawson, or financiers, such as Michael Forsyth) and the questioning tends to be more discursive --that is, peers tend to spend more time in phrasing and elaborating upon their questions before allowing witnesses to respond. This finding aligns with anecdotal observations and elite interviews with committee members that greater discursiveness from peers is likely to produce more vocal cues.

Section II of Table 1 (corresponding with Table A3) summarizes the mean scores for selected facial expressions, focusing on anger, disgust, contempt, happiness and sadness. A key emotion expressed in these facial expressions by both parliamentary committee members and Treasury witnesses (predominantly Chancellor Osborne) is *anger*. This emotion is, by comparison, exhibited far less frequently in hearings with Bank experts. Importantly, anger is expressed by *both* the committees and the witnesses in fiscal policy hearings. One further emotion—*contempt*—is also more prominently expressed by witnesses in fiscal policy hearings than in Bank of England hearings. Moreover, focusing on the fiscal policy hearings, we also observe that the witnesses (again, predominantly the chancellor) exhibit greater contempt than do the parliamentarians who are engaged in questioning. In short, fiscal policy hearings unleash higher levels of anger by questioners and witnesses alike, than Bank oversight hearings. In addition, witnesses tend to exhibit contempt towards committee members, but this does not appear to be returned by the committee members towards the witnesses.

Turning to reassuring or *happy* facial expressions, the comparison across chambers suggests that witnesses (both Bank and Treasury) appearing before the Lords committee tend to be more congenial than those appearing before the Commons. Conversely, for expressions of sadness, both committee members and witnesses are more rueful in the Commons' committee than in the Lords' committee. This does seem to suggest a difference in interactional dynamic between the two committees, with a more reassuring dynamic in the Lords' hearings (by witnesses and committee members) and more concern or appeasement ("sadness") in the Commons' hearings. Observers of deliberative norms in both committees note that because partisanship is less acute in the House of Lords' committees, these hearings tend to be relatively more relaxed than those in the Commons' committees[60], which may help explain this finding. Evidence for this is both from my own interviews with MPs, peers and policy experts, as well as from other published accounts: "The absence of an absolute majority, the presence of a sizeable body of peers with no party affiliations and the appointed nature of the House (members not seeing one another as electoral threats) have resulted in a less adversarial approach and fewer divisions than in the Commons." [60, 129] Arguably, MPs generally hold career aspirations and are not as established as are peers, and thus we might draw upon a behavioural model of nonverbal communication for an interpretation of this finding (e.g., the "challenger" style (aggressive) versus the "power holder" style (more confident, assured) [61]).

From the behavioural model of leader-follower interactions discussed earlier, one is tempted to depict the Commons' committee as a competitive setting and the Lords' committee as non-competitive. Some aspects of this model seem to apply—e.g., the anger by parliamentarians in the Commons' committee and the sadness/appeasement of Bank officials in this same committee. But the goal of maintaining social order through fear/submission does not appear to hold for the chancellor in fiscal policy hearings; rather, he in essence mirrors the anger of the committee members and adds to this contempt. Bank officials also do not respond with fear to the anger of the committee members, although their nonverbal expressions of sadness/appeasement are less overtly combative than the chancellor's contemptuous expressions. In short, the expectation of the behavioural model for nonverbal behaviour is that actors will adapt their behaviour in order to regulate social relations. The interesting finding here is that the chancellor does not appear to respond as expected in either a

competitive setting (fear) or a non-competitive setting (appeasement), whereas central bankers respond in *both* committees along the lines of what would be expected in a non-competitive setting.

[Figure 2 – about here]

There is, however, one final observation which appears out of place—i.e., the higher happiness/reassurance displays by Treasury witnesses, relative to Bank experts. At first, this does not accord with the parallel findings of more anger and contempt by Treasury witnesses in these hearings. An intuitive interpretation is the tendency of politicians to be somewhat disingenuous in “putting a positive spin” (literally, by smiling) on politically sensitive budgetary news. To explore this further, Figure 2 presents still photos of Chancellor Osborne which were taken from the coded hearings. The contrast is between the top row and the bottom row (but ignoring his notable weight loss [62]). The “smirk” in Osborne’s smile has been noted previously by journalists, [63] and this element can be seen in the smiles on the first row. The second row smiles are quite different in being more genuine. More specifically, the bottom row smiles resemble the enjoyment smile (also known as the “Duchenne” smile, named after Duchenne de Boulogne [64]), which accords with feelings of happiness or amusement, but may also be signalling cooperation. [14] In the top row, Osborne’s teeth are less in evidence, and the muscles surrounding the eyes are not contracted, as one would expect from an enjoyment smile. [16]

[Figures 3 and 3a – about here]

Figures 3 and 3a examine differences in the distributions of facial expression coding. The top and bottom distributions (“J” and “R”) are from the two undergraduate coders, while the distribution by “G” is from the older coder (with nearly twenty years of experience in empirical political science research). Both the undergraduates code the happy scores of the hearings with the chancellor (HMT) relatively higher than all other facial expressions (and coder “R” tended to overcode, as seen in the vertical scale; Figure 3a thus provides an enlarged version of these scores). In contrast, coder “G” produces a wider array of facial expression scores, which indicates more scores for anger, contempt and surprise, and less for happiness. While it is highly unconventional to note what appear to be idiosyncratic differences among coders, both the nature of Osborne’s phony smiles and the contrast between the innate experience of the coders suggest that the degree of contempt and anger by Osborne

agreed upon by all three coders (from Table 1) may in fact be greater, if perhaps the undergraduate coders had received more extensive training in the specific nature of Osborne's false or phony smiles. At the very least, Figures 2, 3 and 3a suggest that much more could be done to more accurately capture the genuine and more controlled expressions of Chancellor Osborne.

Discussion and Conclusion

The quotes at the beginning of this paper presage the findings of nonverbal behaviour in the committee hearings. Speaking from his experience as a central banker, Alan Blinder emphasizes that unelected (independent) central bankers are morally accountable to the public and are thereby obliged to explain themselves. In their appearances before the parliamentary select committees in the UK, central bankers convey this acquiescence to parliamentarians in their nonverbal facial expressions. Conversely, the quote by the Commons' committee chair, Andrew Tyrie, characterizes a particular fiscal policy hearing as having "pretty vigorous exchanges" where "the Government was forced to explain its actions." The description suggests a heated (threatening) tone in the room and a competition for control over policy decisions or outcomes. This, too, fits well with the documentation of anger expressed by parliamentarians and the chancellor over fiscal policy, although it may not have anticipated the clear finding of contempt by the chancellor towards the committee members. In short, the findings in this paper accord with the observations of those intimately involved in select committee hearings.

Moreover, this paper builds upon a previous analysis of the deliberative content of the hearings, which used automated textual analysis software. The verbal content of these hearings found that in fiscal policy hearings, committee members would focus on a certain array of thematic concerns while the witness (namely the chancellor) would seek to address his own topic(s). As a process, questioners and witness would effectively talk past one another. The content of fiscal policy hearings is also far more partisan in orientation than either monetary policy or financial stability. From the present study of the nonverbal communication in these hearings, certain findings complement our understanding of the verbal content: angry/threatening expressions by parliamentarians (shared by the witness) together with the contempt of the witness run parallel to the partisan clashes and failure of both questioners and witness to establish a *shared* discourse around common themes (i.e., there is

more talking *past* one another than talking *with* one another—in other words, the witness tends to avoid answering the question asked, and instead provides a response which is unrelated or diversionary in nature). This nonverbal behaviour of each side may reflect latent emotions of anger and contempt by both backbench and frontbench parliamentarians. Yet bearing in mind that these hearings are not one-shot episodes but occur with regularity throughout the life of the parliamentary session, these expressions may also signal ongoing animosity and a continuous struggle for control over fiscal policy priorities by members of the legislature versus members of the executive. As such, committee members may be signalling their willingness to remain vigilant in questioning (“attacking”) the priorities and processes of the Treasury, while the chancellor is also signalling his resistance to this seeming challenge to his authority and competence. In this context, there appears to be little agreement as to who is situated where in the dominance hierarchy between the committee members and the Treasury. Confrontation between backbench and frontbench parliamentarians (legislature versus executive) persists—which is in accordance with behavioural/ethological principles—though the expectation that each set of actors will seek to maintain social order does not appear to apply.

In the monetary policy hearings with Bank officials, the verbal content contains very little discernible partisanship, and for each theme in the hearings, both committee members and Bank official engage with each other—that is, Bank of England officials respond more directly to the questions of committee members, thereby creating a shared thematic discourse. The assessment of nonverbal behaviour in these hearings accords with this verbal content, in that these witnesses display more appeasement (“sad”) expressions towards both sets of committee members, suggesting that central bankers perceive these hearings as non-competitive encounters. From the behavioural ecology approach, this behaviour appears to signal a willingness to cooperate with (and defer to) Parliament.

The comparison of nonverbal behaviour across the two chambers further complements the analysis of the verbal content. From the transcripts, it was found that in the Commons’ committee, MPs tended to divide their speaking time across several themes whereas in the Lords’ committee, each peer tended to focus on one theme (typically one that fell into that peer’s area of expertise). The finding of a higher incidence of reassuring facial expressions in the Lords’ committee is thus a feature

of a more relaxed, less confrontational discourse in this committee, where peers are also at liberty to engage witnesses in themes of greatest interest to them.

Finally, this paper has neither sought nor obtained a precise quantification of nonverbal behaviour in committee hearings; rather, it has explored the relative occurrence of expressive displays and extent to which systematic differences are identifiable between types of witnesses and types of questioners in the real world setting of parliamentary oversight. Additionally—and unconventionally—this paper has made transparent a contrast between more inexperienced, young coders and a more experienced, older coder, with the former less able (or willing) to differentiate the genuine or phony natures of smile by Chancellor Osborne. Bearing in mind criticisms levelled against the over-reliance on undergraduates in empirical research, it is worth noting that phony smiles may be an aspect of nonverbal coding which requires far more extensive training and expertise to accurately code. Ultimately, however, the goal of this study is to gauge the extent to which the interactional dynamic of fiscal policy hearings differs from hearings with central bankers, and the extent to which contrasts are observed in nonverbal behaviour between parliamentary committees. To that end, this study has found clear differences. This study has not, however, directly gauged the effect of either verbal or nonverbal behaviour on the *persuasiveness* of the witnesses vis-à-vis committee members; this remains a task for further investigation, using both experimental methods and qualitative interviews with parliamentarians and central bankers.

Figure 1: An Example of Nonverbal Communication in a Treasury Select Committee Hearing on Monetary Policy

Bank of England Drops a Bombshell on Parliament: It Shredded Its Crisis Era Records

By Pam Martens: March 12, 2014

Mark Carney, the head of the Bank of England, and other officials from the BOE were put through a five hour marathon of questioning yesterday by Parliament's Treasury Select Committee covering everything from how long the BOE plans to continue Quantitative Easing (QE), to the potential for Scotland to vote for its independence, to what it knew and when it knew it about the rigging of the Foreign Exchange market by colluding global banks.



Mark Carney, Head of the Bank of England, and Paul Fisher, Executive Director of Markets, During a Treasury Select Committee Grilling Over Destroying BOE Records

The bombshell of the day, however, did not occur during the session on the Foreign Exchange scandal, which is stacking up to be a more serious matter than the rigging of the Libor interest rate benchmark which occurred under the nose of the Bank of England and the British Bankers Association. (London now seems to be in competition with itself for the prize of the century for overseeing the rigging of the greatest number of markets.)

The bombshell came in the following exchange between the Chair of the Treasury Select Committee, Andrew Tyrie, and a **very frightened appearing** Paul Fisher, the Executive Director of Markets at the BOE, who has served in that position since 2009. Apparently neither Parliament nor the public knew prior to this exchange that the records of the pre-crisis year of 2007, the financial collapse in 2008, and the monetary policy maneuvers in subsequent years to prevent another Great Depression had been destroyed in one of the world's most important financial centers; not to mention the fact that critical recordings potentially relevant to the Foreign Exchange probe are also gone.

Chairman Tyrie: "The MPC [Monetary Policy Committee] records might be of interest one day to historians about the inception of QE. MPC records used to be recorded and transcribed when the MPC was created. Is that still the case Mr. Fisher?"

Paul Fisher: "They are not transcribed. They are still recorded so that the secretariat can go back to check any discrepancies between the minutes and what people may have said. But as far as I know they are not transcribed."

Chairman Tyrie: "And they're stored?"

Paul Fisher: "The recordings are not kept. Once the minutes are published..."

Chairman Tyrie: **[In a booming, outraged voice]** "The recordings are destroyed! Why?"

Paul Fisher: "Because we have one copy of the minutes; that's the one that's published and there are not alternative versions."

Chairman Tyrie: "There are more than one purpose for these. There's the minutes after a fortnight and there's the historical value. The Fed Open Market Committee publishes full transcripts of its meetings with a five year delay. Whether it's a five or ten year delay, certainly these are of huge historical significance. Why aren't you putting something similar in place?"

Paul Fisher: "This goes back to when the Committee first started. They initially did try to make transcripts, unsuccessfully."

Chairman Tyrie: "What do you mean unsuccessfully?"

Paul Fisher: "It was very hard to actually physically transcribe the tapes in any way which made any sense in terms of the

written material.”

Chairman Tyrie: “Is that because you’re shouting and throwing things about. Most organizations manage to transcribe a record. Even the House of Commons manages to do it on a good day.”

Paul Fisher: “I’m trying to explain what I know of it. My understanding is that people talking, very free flowing discussion, and they couldn’t make a sensible transcript.”

Tyrie strongly suggested to Carney and Fisher that the recordings should be preserved in the future and told Carney that he should chair the MPC in such a way that allows people to speak so that all can be heard.



Andrew Tyrie, Chair of the Treasury Select Committee of Parliament in the U.K.

Carney appeared to be attempting to suppress amusement during the exchange between Tyrie and Fisher and then breaking out in a full smile when Tyrie suggested the meetings of the MPC were something of a free-for-all. Carney’s amusement may stem from the fact he has been at the BOE for less than 10 months and can hardly be blamed for the long-term practice of destroying records.

Carney is a former Goldman Sachs banker who went on to become the head of the Bank of Canada, serving in that post during the financial crisis. He is the first non Briton to head the Bank of England in its more than 300-year history. That reality, and his non-British accent, seemed to invite an intensely interrogative style at times during the five hours of questioning yesterday by members of the Treasury Select Committee. Carney remained calm, courteous and professional throughout.

It’s clear to anyone paying attention that the BOE is attempting to clone itself into the Fed – as questionable as that idea might be given that the full transcripts that have been released by the Fed for the crisis years show it had blinders on in terms of the depth of the crisis.

Paul Fisher, as Executive Director of Markets, functions in a role similar to Simon Potter, Executive Vice President of Markets at the New York Fed. The Monetary Policy Committee or MPC at the Bank of England, is the clone of the Federal Open Market Committee or FOMC at the U.S. Federal Reserve Board of Governors. But the MPC only began operating in 1998, three-quarters of a century after [the FOMC held its first meeting in 1922](#).

Now Carney has announced that he is going to create what looks like a clone of the President of the New York Fed (William “Bill” Dudley) through a new Deputy Governor position at the BOE to oversee markets and banking.

Good luck with that. As Wall Street On Parade has [repeatedly chronicled](#), avoiding regulatory capture will likely prove as elusive at the BOE as it has at the New York Fed. And given the seismic nature of the market rigging that has gone on in London, this is like putting a Disney-themed band aide on a compound fracture.

Bookmark the [permalink](#).

Source: [65]

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Table 1: Summary Findings

I. Mean Scores

a. Total mean scores for facial, vocal and gestures:

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

b. Mean Facial scores:

All Committee members (Commons' TSC + Lords' EAC)

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

Witness

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

c. Mean Gesture scores:

Witness

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

d. Mean Vocal scores:

Committee members

Lords Economic Affairs > Commons Treasury Select

II. Facial Scores, by Emotion

a. Facial Scores, by Emotion: ANGER

All Committee members (Commons' TSC + Lords' EAC)

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

Witness

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

b. Facial Scores, by Emotion: CONTEMPT

Witness

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

Witness to Questioner

(Treasury) Fiscal Policy > All Committee members (TSC + EAC)

c. Facial Scores, by Emotion: HAPPY

Witness

Lords Economic Affairs > Commons Treasury Select

Witness

(Treasury) Fiscal Policy > (Bank of England) Monetary Policy & Financial Stability

e. Facial Scores, by Emotion: SAD

Witness

(Bank of England) Monetary Policy & Financial Stability > (Treasury) Fiscal Policy

Committee members

Commons Treasury Select > Lords Economic Affairs

Witness

Commons Treasury Select > Lords Economic Affairs

Figure 2: The Smiles of Chancellor George Osborne

1



2



3



4



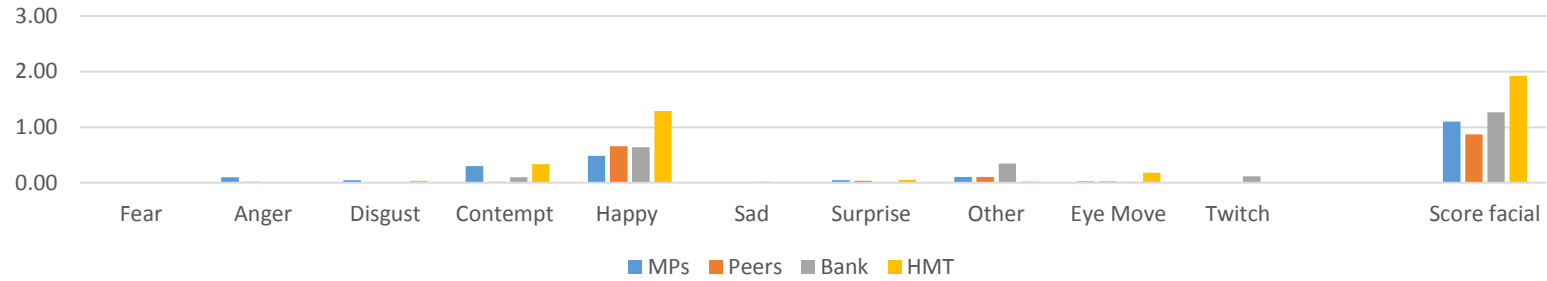
5



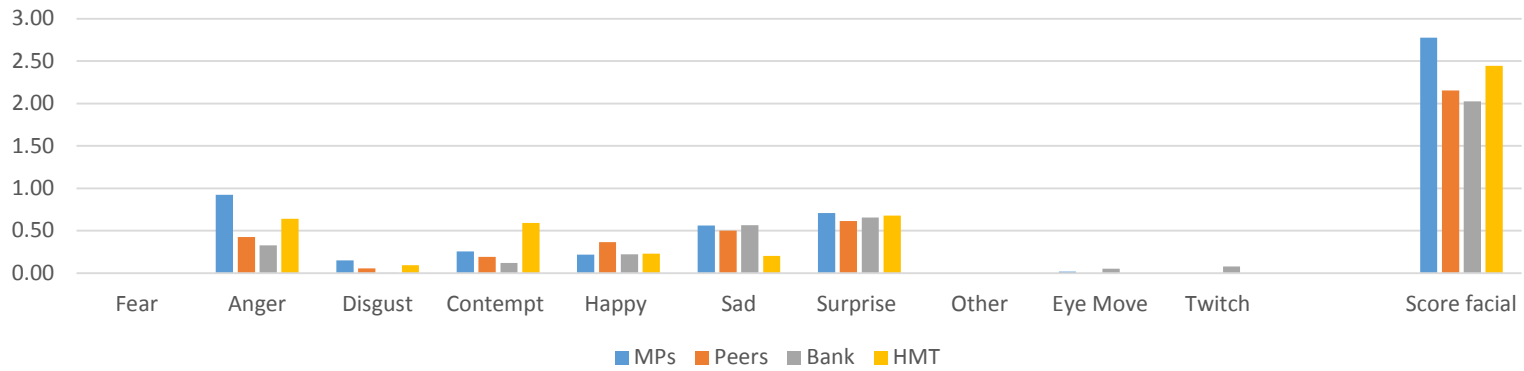
6

Figure 3: Distributions of Facial Expression Scores Among Coders

J - Facial Scores



G- Facial Scores



R - Facial Scores

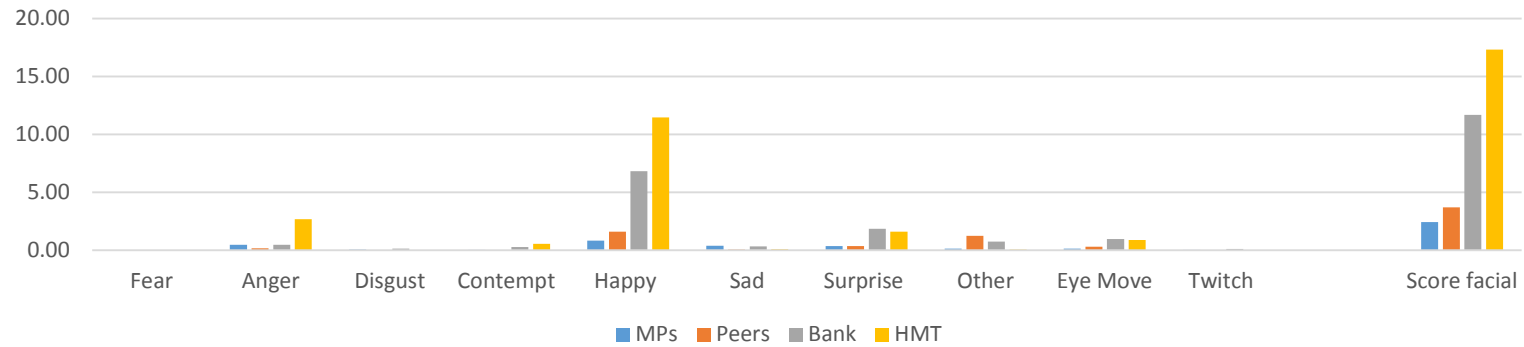
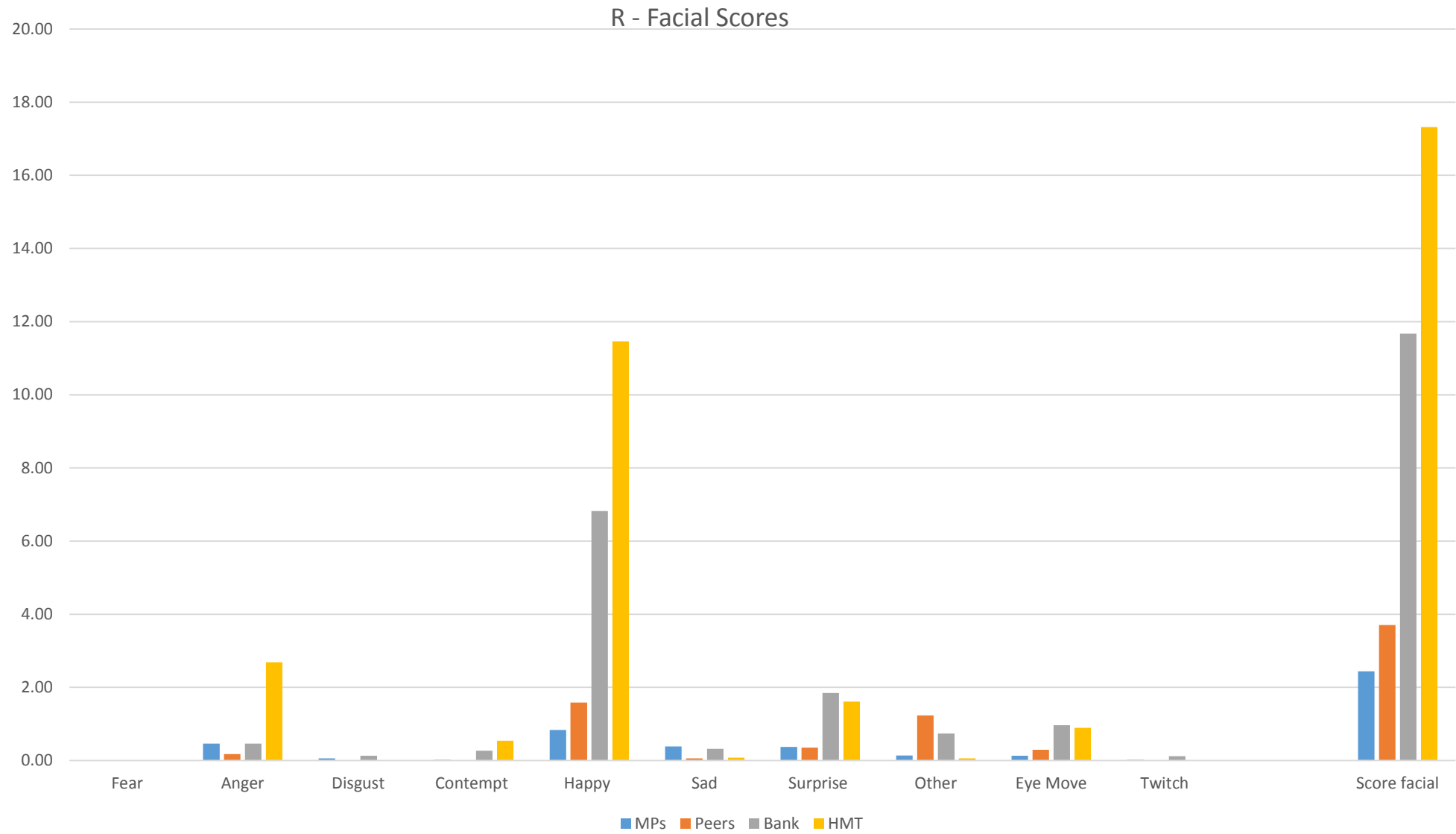


Figure 3a: Distributions of Facial Expression Scores – R only



APPENDIX 1A

LIST OF 37 HEARINGS OVER 2010-15 PARLIAMENT

(12 SELECTED FOR CODING IN ITALICS)

House of Commons Treasury Select Committee

Monetary Policy Hearings

28 July 2010, Inflation Report

10 November 2010, Inflation Report

1 March 2011, Inflation Report

28 June 2011, Inflation Report

25 October 2011 [Quantitative Easing]

28 November 2011, Inflation Report

29 February 2012, Inflation Report

26 June 2012, Inflation Report

27 November 2012, Inflation Report

25 June 2013, Inflation Report

12 September 2013, Inflation Report

26 November 2013, Inflation Report

24 June 2014, Inflation Report

10 September 2014, Inflation Report

25 November 2014, Inflation Report

24 February 2015, Inflation Report

Fiscal Policy Hearings

15 July 2010 [Budget]

4 November 2010 [Spending Round]

29 March 2011 [Budget]

27 March 2012 [Budget]

26 March 2013 [Budget]

11 July 2013 [Spending Round]

17 December 2014. Autumn Statement

House of Lords Economic Affairs Committee

Monetary Policy

16 November 2010: Meeting with the Governor

27 March 2012: Economic Outlook (Meeting with Governor and MPC members)

17 December 2013: Meeting with the Governor of the Bank of England

10 March 2015: Meeting with the Governor of the Bank of England

Fiscal Policy

30 November 2010: Economic Outlook (Meeting with Chancellor and Treasury Staff)

8 December 2011: Economic Outlook (Meeting with Chancellor and Treasury Staff)

4 February 2014: Meeting with the Chancellor of the Exchequer

Financial Stability Reports and Hearings 2011-2015 (All in TSC)

17 January 2012: (December 2011 FSR)

17 July 2012: (June 2012 FSR)

15 January 2013: (November 2012 FSR)

2 July 2013: (June 2013 FSR)

15 January 2014: (November 2013 FSR)

15 July 2014: (June 2014 FSR)

14 January 2015: (December 2014 FSR)

APPENDIX 1B: PARTICIPANTS IN SELECTED HEARINGS

MONETARY POLICY

Treasury Select Committee, 28 July 2010 (Inflation Report)

Members present:

Chairman: Andrew Tyrie (Conservative)

Michael Fallon (Conservative)

Mark Garnier (Conservative)

Andrea Leadsom (Conservative)

Jesse Norman (Conservative)

Brooks Newmark (Conservative)

David Rutley (Conservative)

David Ruffley (Conservative)

Stewart Hosie (Scottish National Party)

John Thurso (Liberal Democrat)

Andy Love (Labour)

John Mann (Labour)

Pat McFadden (Labour)

John Cryer (Labour)

Chuka Umunna (Labour)

Teresa Pearce (Labour)

George Mudie (Labour)

Witnesses

Mr Mervyn King, Governor of the Bank of England

Mr Charlie Bean, Deputy Governor

Mr Paul Fisher, Executive Director, Markets

Mr David Miles and Mr Andrew Sentance, External Members of the Monetary Policy Committee

Treasury Select Committee, 25 October 2011 (Quantitative Easing)

Members present:

Chairman: Andrew Tyrie (*Conservative*)
Michael Fallon (*Conservative*)
Mark Garnier (*Conservative*)
Andrea Leadsom (*Conservative*)
Jesse Norman (*Conservative*)
Stewart Hosie (*Scottish National Party*)
John Thurso (*Liberal Democrat*)
Andy Love (*Labour*)
John Mann (*Labour*)
David Ruffley (*Conservative*)
George Mudie (*Labour*)

Witnesses

Sir Mervyn King, Governor of the Bank of England
Charles Bean, Deputy Governor Monetary Policy, Bank of England,
gave evidence.

Treasury Select Committee, 27 November 2012 (Inflation Report)

Members present:

Mr Andrew Tyrie MP (*Conservative*) (Chairman)
Mark Garnier (*Conservative*)
Andrea Leadsom MP (*Conservative*)
Mr Andy Love MP (*Labour*)
Rt Hon Pat McFadden MP (*Labour*)
Mr George Mudie MP (*Labour*)
Jesse Norman MP (*Conservative*)
Mr Brooks Newmark (*Conservative*)
David Ruffley MP, (*Conservative*)
John Thurso MP (*Liberal Democrat*)

Witnesses

Sir Mervyn King, Governor of the Bank of England
Paul Fisher, Executive Director, Markets, Bank of England
Dr Martin Weale CBE, External Member of the Monetary Policy
Committee
Dr Ben Broadbent, External Member of the Monetary Policy
Committee, gave evidence.

Treasury Select Committee: Bank of England May 2014 Inflation
Report, Tuesday 24 June 2014

Members present

Andrew Tyrie (*Conservative*) (Chairman)
Mark Garnier (*Conservative*)
Steve Baker (*Conservative*)
Stewart Hosie (*Scottish National Party*)
Andy Love (*Labour*)
John Mann (*Labour*)
Mr Pat McFadden (*Labour*)
Mr George Mudie (*Labour*)
Mr Brooks Newmark (*Conservative*)
Jesse Norman (*Conservative*)
John Thurso (*Liberal Democrat*)
David Ruffley (*Conservative*)
Teresa Pearce (*Labour*)

Witnesses

Dr Mark Carney, Governor of the Bank of England
Sir Charles Bean, Deputy Governor of the Bank of England
Professor David Miles, Monetary Policy Committee Member
Ian McCafferty, Monetary Policy Committee Member

Treasury Select Committee: Bank of England, February 2015
Inflation Report, 24 February 2015

Witnesses

Dr Mark Carney, Governor, Bank of England

Dr Ben Broadbent, Deputy Governor, Monetary Policy Committee

Professor David Miles, External Monetary Policy Committee member

Dr Martin Weale, External Monetary Policy Committee member

Members present

Andrew Tyrie (*Conservative*) (Chairman)

Rushanara Ali (*Labour*)

Mark Garnier (*Conservative*)

Steve Baker (*Conservative*)

Stewart Hosie (*Scottish National Party*)

Mike Kane (*Labour*)

Andy Love (*Labour*)

John Mann (*Labour*)

Jesse Norman (*Conservative*)

David Ruffley (*Conservative*)

Alok Sharma (*Conservative*)

John Thurso (*Liberal Democrat*)

BUDGET HEARINGS

House of Commons Treasury Select Committee: Budget: 15 July 2010

Witnesses

Rt. Hon George Osborne MP, Chancellor of the Exchequer
Sir Nicholas Macpherson, Permanent Secretary
Mr Mark Bowman, Director, Budget and Tax, HM Treasury

Members present

Mr Andrew Tyrie (*Conservative*) (Chair)
Michael Fallon (*Conservative*)
Mark Garnier (*Conservative*)
Stewart Hosie (*Scottish National Party*)
Andrew Love (*Labour*)
Andrea Leadsom (*Conservative*)
John Mann (*Labour*)
Jesse Norman (*Conservative*)
David Rutley (*Conservative*)
John Thurso (*Liberal Democrat*)
Mr Chuka Umunna (*Labour*)

House of Commons Treasury Select Committee: Budget: 27 March 2012

Witnesses:

Rt. Hon. George Osborne MP, Chancellor of the Exchequer
Sir Nicholas Macpherson KCB, Permanent Secretary to the Treasury
James Bowler, Director, Strategy, Planning and Budget, HM Treasury

Members present:

Mr Andrew Tyrie (*Conservative*) (Chair)
Michael Fallon (*Conservative*)
Mark Garnier (*Conservative*)
Stewart Hosie (*Scottish National Party*)
Mr Andrew Love (*Labour*)
John Mann (*Labour*)
Mr Pat McFadden (*Labour*)

Mr George Mudie (*Labour*)
Teresa Pearce (*Labour*)
Mr David Ruffley (*Conservative*)
John Thurso (*Liberal Democrat*)

House of Commons Treasury Select Committee: Autumn Statement,
17 December 2014

Witnesses:

Rt. Hon. George Osborne MP, Chancellor of the Exchequer, HM
Treasury

James Bowler, Director, Strategy, Planning, and Budget, HM
Treasury

Members present:

Mr Andrew Tyrie (*Conservative*) (Chair)
Rushanara Ali (*Labour*)
Steve Baker (*Conservative*)
Mark Garnier (*Conservative*)
Stewart Hosie (*Scottish National Party*)
Mike Kane (*Labour*)
Andrew Love (*Labour*)
John Mann (*Labour*)
Jesse Norman (*Conservative*)
Alok Sharma (*Conservative*)
Teresa Pearce (*Labour*)
Mr David Ruffley (*Conservative*)
John Thurso (*Liberal Democrat*)

FINANCIAL STABILITY

December 2011 FSR (Oral evidence, 17 January 2012)

Members present

Mr Andrew Tyrie MP (*Conservative, Chichester*) (Chairman)
Michael Fallon MP (*Conservative, Sevenoaks*)
Mark Garnier MP (*Conservative, Wyre Forest*)
Stewart Hosie MP (*Scottish National Party, Dundee East*)
Andrea Leadsom MP (*Conservative, South Northamptonshire*)
Mr Andy Love MP (*Labour, Edmonton*)
John Mann MP (*Labour, Bassetlaw*)
Mr George Mudie MP (*Labour, Leeds East*)
Mr Pat McFadden (*Labour, Wolverhampton South East*)
Jesse Norman MP (*Conservative, Hereford and South Herefordshire*)
Teresa Pearce MP (*Labour, Erith and Thamesmead*)
David Ruffley MP, (*Conservative, Bury St Edmunds*)
John Thurso MP (*Liberal Democrat, Caithness, Sutherland, and Easter Ross*)

Witnesses

Sir Mervyn King, Governor of the Bank of England
Andrew Haldane, Executive Director for Financial Stability
Michael Cohrs and Robert Jenkins, External members of the interim
Financial Policy Committee, Bank of England

December 2014 FSR (Oral evidence, 14 January 2015)

Members present

Mr Andrew Tyrie MP (*Conservative, Chichester*) (Chairman)
Rushanara Ali MP (*Labour, Bethnal Green & Bow*)
Steve Baker MP (*Conservative, Wycombe*)
Mike Kane MP (*Labour, Wythenshawe and Sale East*)
Mr Andy Love MP (*Labour, Edmonton*)
Jesse Norman MP (*Conservative, Hereford and South Herefordshire*)
John Thurso MP (*Liberal Democrat, Caithness, Sutherland, and Easter Ross*)

Witnesses

Dr Mark Carney, Governor, Bank of England

Sir Jon Cunliffe, Deputy Governor, Financial Stability, Bank of
England

Dame Clara Furse, External member, Financial Policy Committee

Martin Taylor, External Policy Member, Financial Policy Committee

HOUSE OF LORDS ECONOMIC AFFAIRS COMMITTEE

Lords Economic Affairs Committee, 8 December 2011 (Economic Outlook)

Chairman: Lord MacGregor of Pulham Market (*Conservative*)

Lord Forsyth of Drumlean (*Conservative*)

Lord Lawson of Blaby (*Conservative*)

Lord Levene of Portsoken (*Crossbencher*)

Lord Lipsey (*Labour*)

Lord Smith of Clifton (*Liberal Democrat*)

Lord Tugendhat (*Conservative*)

The Rt. Hon George Osborne MP, Chancellor of the Exchequer
Mark Bowman, Director for Strategy, Planning and Budget, Treasury

Lords Economic Affairs Committee, 27 March 2012 (Economic Outlook)

Chairman: Lord MacGregor of Pulham Market (*Conservative*)

Lord Currie of Marylebone (*Crossbencher*)

Lord Forsyth of Drumlean (*Conservative*)

Lord Hollick (*Labour*)

Lord Levene of Portsoken (*Crossbencher*)

Baroness Kingsmill (*Labour*)

Lord Lipsey (*Labour*)

Lord Moonie (*Labour*)

Lord Shipley (*Liberal Democrat*)

Lord Smith of Clifton (*Liberal Democrat*)

Lord Tugendhat (*Crossbencher*)

Witnesses

Sir Mervyn King, Governor of the Bank of England

Mr Paul Fisher, Executive Director, Markets, Bank of England

Dr Ben Broadbent, Monetary Policy Committee Member

APPENDIX 2: Coding Scheme

Questioner		Witness		Witness (2)	
Facial	<i>Number of Instances</i>	Facial	<i>Number of Instances</i>	Facial	<i>Number of Instances</i>
Fear		Fear		Fear	
Anger		Anger		Anger	
Disgust		Disgust		Disgust	
Contempt		Contempt		Contempt	
Happy		Happy		Happy	
Sad		Sad		Sad	
Surprise		Surprise		Surprise	
[Other expression]		[Other expression]		[Other expression]	
Eye Movement (wink, closed eyes)		Eye Movement (wink, closed eyes)		Eye Movement (wink, closed eyes)	
Twitch		Twitch		Twitch	
<i>Summary Score-Facial</i>		<i>Summary Score-Facial</i>		<i>Summary Score-Facial</i>	
Vocal		Vocal		Vocal	
Volume Variation		Volume Variation		Volume Variation	
Accent (e.g., non-British)		Accent (e.g., non-British)		Accent (e.g., non-British)	
Vocal Response (“uh huh”)		Vocal Response (“uh huh”)		Vocal Response (“uh huh”)	
Pauses		Pauses		Pauses	
Stress on Words		Stress on Words		Stress on Words	
Speed Variation		Speed Variation		Speed Variation	
Interruptions		Interruptions		Interruptions	
<i>Summary Score-Vocal</i>		<i>Summary Score-Vocal</i>		<i>Summary Score-Vocal</i>	
Gestures/Posture		Gestures/Posture		Gestures/Posture	
Head Movement (nod, shake)		Head Movement (nod, shake)		Head Movement (nod, shake)	
Hands (waving, open and extended in movement, etc)		Hands (waving, open and extended in movement, etc)		Hands (waving, open and extended in movement, etc)	
Posture (higher score for leaning forward, upright and alert)		Posture (higher score for leaning forward, upright and alert)		Posture (higher score for leaning forward, upright and alert)	
<i>Summary Score-Gestures</i>		<i>Summary Score-Gestures</i>		<i>Summary Score-Gestures</i>	

APPENDIX 3: Detailed Codes

Table A1: Aggregate Scores (Counts) for Nonverbal Communication (Including Facial, Vocal and Gestures)

<i>Group</i>	<i>Witness (Bank / Her Majesty's Treasury, HMT) Mean Score</i>		
	G	J	R
All Bank of England	11.71	7.17	148.26
All Financial Policy Committee	8.62	7.18	172.53
All Monetary Policy Committee	12.74	7.17	140.16
All Her Majesty's Treasury	17.35 [1.5x]	12.21 [1.7x]	364.78 [2.5x]

Table A2: Mean Scores for Nonverbal Communication, by Type

Group	Facial: Committee			Facial: Witness			Vocal: Witness			Gesture: Witness		
	G	J	R	G	J	R	G	J	R	G	J	R
All Bank of England	2.19	1.19	2.75	1.89	1.42	7.94	3.68	0.77	31.79	6.14	4.98	110.71
All Financial Policy Committee	2.12	1.29	5.00	1.45	1.79	11.07	2.51	1.06	30.06	4.66	4.33	131.41
All Monetary Policy Committee	2.22	1.15	2.00	2.04	1.30	6.90	4.07	0.67	32.37	6.63	5.19	103.81
All Her Majesty's Treasury	3.23 <i>[1.5x]</i>	1.03 <i>≈ tie</i>	5.85 <i>[2.1x]</i>	2.98 <i>[1.6x]</i>	2.01 <i>[1.4x]</i>	38.27 <i>[4.8x]</i>	5.65	0.44	92.78	8.73 <i>[1.4x]</i>	7.55 <i>[1.5x]</i>	233.73 <i>[2.1x]</i>
<u>All Lords Economic Affairs Committee</u>	2.24	0.78	10.14	3.10	1.31	66.50	<u>4.33</u> <i>≈ tie</i>	<u>1.05</u> <i>[1.5x]</i>	<u>135.50</u> <i>[3.2x]</i>	6.84	9.06	312.34
<u>All Treasury Select Committee</u>	2.60	1.12	2.71	2.08	1.51	11.71	<u>4.34</u>	<u>0.69</u>	<u>42.76</u>	7.03	5.14	137.37

Table A3: Mean Scores for Nonverbal Communication: Facial Scores, by Emotion

<i>Group</i>	<i>All Anger Scores: Committee</i>			<i>All Anger Scores: Witness</i>		
	G	J	R	G	J	R
All Bank of England	0.89	0.06	0.32	0.41	0.00	0.43
All Financial Policy Committee	1.06	0.00	0.09	0.15	0.01	0.50
All Monetary Policy Committee	0.83	0.08	0.4	0.50	0.00	0.41
All Her Majesty's Treasury	0.97 <i>[1.1x]</i>	0.13 <i>[2.2x]</i>	0.87 <i>[2.7x]</i>	0.78 <i>[1.9x]</i>	0.01 <i>≈ tie</i>	3.08 <i>[7.2x]</i>

Table A3 continued: Mean Scores for Nonverbal Communication: Facial Scores, by Emotion

Group	All Contempt Scores: Committee			All Contempt Scores: Witness			All Happy Scores: Witness		
	G	J	R	G	J	R	G	J	R
All Bank of England	0.19	0.27	0.03	0.22	0.14	0.29	0.21	0.80	4.44
All Financial Policy Committee	0.10	0.31	0.00	0.08	0.18	0.63	0.16	0.69	5.42
All Monetary Policy Committee	0.22	0.75	0.03	0.27	0.13	0.17	0.22	0.83	4.12
All Her Majesty's Treasury	<u>0.47</u> [1.6x]	<u>0.26</u> ≈ tie	<u>0.01</u> [94x]	0.76 [3.5x]	0.24 [1.7x]	0.94 [3.2x]	0.32 [1.5x]	1.05 [1.3x]	24.02 [5.4x]
All Lords Economic Affairs Committee	0.30	0.07	0.00	0.53	0.03	1.17	<u>0.52</u> [1.6]	<u>0.99</u> [1.4x]	<u>41.00</u> [5.7x]
All Treasury Select Committee	0.22	0.29	0.02	0.29	0.19	0.35	<u>0.20</u>	<u>0.73</u>	<u>7.16</u>

Table A3 continued: Mean Scores for Nonverbal Communication: Facial Scores, by Emotion

Group	All Sad Scores: Committee			All Sad Scores: Witness		
	G	J	R	G	J	R
All Bank of England	0.49	0.02	0.52	0.48 [2.2x]	0.04 tie	0.31 [5.2x]
All Financial Policy Committee	0.40	0.00	1.52	0.57	0.09	0.45
All Monetary Policy Committee	0.53	0.02	0.19	0.46	0.03	0.26
All HMT	0.70	0.06	0.18	0.22	0.04	0.06
<u>All Lords Economic Affairs Committee</u>	<u>0.46</u>	<u>0.00</u>	<u>0.05</u>	<u>0.36</u>	<u>0.00</u>	<u>0.00</u>
<u>All Treasury Select Committee</u>	<u>0.52</u> [1.1x]	<u>0.02</u> ≈ tie	<u>0.47</u> [9.4x]	<u>0.42</u> [1.2x]	<u>0.03</u> ≈ tie	<u>0.26</u> [26x]