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An Ontario Libraries' Network, or Cooperative Entanglement

While I accepted the invitation to discuss the College Bibliocentre at this Clinic, I cannot say that I did so with equanimity. Quite apart from many organizational difficulties, the systems both in operation and in varying stages of development at the College Bibliocentre, have evolved from practical emersion without the benefit of the finite planning or initial test and research procedures from grant aids that many others have experienced. This is why I adopted the latter part of my title for this paper.

I was asked particularly to discuss the techniques we are using to acquire the necessary input to the various systems. However, if I was asked to underline what I considered to be the major problems facing the development of a central technical service unit, the technicalities of how to input would be the least concern. The major problems are those beyond the technological requirements—how to achieve the degree of coordination required and, in particular, how to overcome the financial hazards which face such an organization.

Indeed, the prime motivation for establishing such a center as ours generally arises from financial restrictions imposed on educational establishments which, in turn, lead to less funds for libraries. However, in order to create such an organization and the systems it needs to implement, money is required.

Meanwhile, those librarians who are already harassed by the depletion of their own budgets look to centralization of technical services for immediate cost savings. At the same time, the librarians impose on the center what they consider to be the significant system requirements, without due regard to their cost effectiveness to meet library user needs. Thus, the bibliographic descrip-

tion of an item to distinguish it from any other item in the store has become the base of operation at international, national and local levels. Within an educational institution this is not the criteria of the majority of users of the library, because they are aware that the bibliographic description may define its physical identity but, as users, they are more concerned with intellectual identity. The result of this syndrome makes the operation of developing a central service, removed from direct contact with the ultimate user by a user librarian, rather like negotiating a greasy pole balanced on the snouts of two performing seals.

Historically, the CB (Colleges of Applied Arts and Technology Bibliographical Centre) was developed when the Ontario government legislated the formation of twenty colleges in Ontario in 1967. It was created to purchase, catalog and process "packaged" libraries for each college, so that when they opened their doors in that year each would have a library even if it had no staff. Subsequently, the organization of this center, which began under the care of William Ready at McMaster University, was transferred to Toronto and established under a broadly based charter as a nonprofit-making organization. It is now partly financed by the Ontario Ministry of Colleges and Universities, with its policies approved by a users' advisory committee whose membership includes three college presidents, four directors of college learning resource centers, and four faculty members.

The functions of the center are defined as follows:

- 1. To cooperate with publishers and other distributors in the establishment of a selective dissemination service for academic staff through college resource center directors to assist them in the selection of books, audiovisual and other resource materials. Such a service will incorporate a continuing central exhibition of print and audiovisual resources.
- 2. To facilitate the coordination of activities associated with the production of audiovisual aids in the colleges, paying particular attention to the suitability of programs for exchange purposes and the cataloging and retrieval of such material.
- To negotiate with appropriate organizations on any matter which may facilitate the satisfactory application of usage of media to the benefit of the colleges.
- 4. To act as the central acquisition unit for the majority of the book and nonbook materials required by the college resource centers.
- 5. To act as the central processing and cataloging unit for all college resource book and nonbook material.
- 6. To establish systems which will facilitate the more efficient use of

knowledge acquired by the colleges, so that others can retrieve information they need for their studies and problemsolving.

- 7. To establish in consultation with the colleges, central collections of more expensive material or material required for short periods of time which can be loaned as and when required.
- 8. To provide a professional center for the exchange of information and expertize in the development, administration and utilization of college resource centers.
- 9. To facilitate the use of any special reprographic or distribution facilities necessary for the center to the advantage of the colleges, with particular attention to microrecording.
- 10. To act in consultation with the appropriate staff at the Ministry of Colleges and Universities as a publisher/distributor of college-produced learning packages establishing copyright procedures wherever necessary.

It may be of interest to specify the objectives which were used in compiling the 1973/74 budget.

- All colleges participating in the operation will receive a computer tape, regularly updated, of their holdings cataloged by the College Bibliocentre for use in automated circulation systems and for general statistical purposes.
- A biannual book catalog with weekly cumulations will be produced for each college audiovisual collection cataloged by the College Bibliocentre.
- A biannual author index with weekly cumulations to the print resources
 of each college which have been cataloged and processed by the College
 Bibliocentre.
- 4. A biannual title index with weekly cumulations to the print resources of each college which have been cataloged by the College Bibliocentre.
- 5. A biannual union catalog with weekly cumulations to material cataloged and processed by the center to meet college needs for Canadian studies.
- 6. In order to fulfill the requirement for book catalogs for those seeking guidance on resources to match subject requests, the College Bibliocentre will begin to implement a special automated indexing procedure utilizing the British PRECIS system.
- 7. To assist in the indexing of government documents and to provide college resource centers users with simple access tools, the College Bibliocentre will coordinate their records for government publications with the data base developed by the University of Guelph.
- 8. The Videotape Film Distribution Service, which was offering a limited

service for a few months during 1972/73, will offer a more extensive facility to faculty for a full year of operation.

As these functions and objectives indicate, the center is responsible for creating a machine-readable data base for all materials required for individual learning in the colleges. As each college differs in the administrative organization of such materials, the center may be dealing directly with a number of people with different responsibilities in the same establishment—librarians, audiovisual directors, educational resource directors—to name but a few. Additionally, many colleges have several campuses widely dispersed and often autonomous in control and expenditure. There are now fifty-seven separate units involved, shortly to be doubled (again by the stroke of a pen) with the inclusion of all the schools of nursing which have been transferred to the same network. To provide some indication of the scale of activities in the year 1972-73 the center processed 160,133 items, of which 57,305 were new titles added to the college holdings file.

Operating in 1969 with inadequate capital and premises more suited to the raising of mushrooms, the center was finally housed in a new building in January 1971, and has now reached a period of reasonable financial stability, though not financial adequacy. This year, 1973/74, for example, the government operating grant was slashed from \$1,387,000 to \$900,000. In order to obtain additional operating funds it has been necessary to charge \$1.00 for all items ordered through the CB and \$1.00 for all items cataloged and processed by the center. It is too early to judge the impact of these charges on our users, but they will undoubtedly alter the workload. It never costs the librarians anything to order or process within their own library.

I stated earlier that systems grew more from practical necessity than planned efficiency—although that should not be interpreted that we lacked an overall plan or, should I say, had no concept of the value of creative planning. Figure 1 (at the end of this article) is our goal: one input and a series of modules to meet each system requirement. Obviously, in order to achieve it, much more was required than our own system development. Simply stated, the chart points to:

- 1. Publishers and producers cooperating with national libraries (Why has Bowker produced yet another computer tape to U.S. resources repeating data appearing on LC MARC and adding *nothing* helpful to ultimate users of the bibliographic store?);
- 2. International coordination for machine-readable tape exchange (We profess to the need, but the past year has shown how we beg to differ.);
- 3. National library networks with dedicated computer/s and computer

personnel wise in library record manipulation (more complex than commercial system requirements); and

4. Cooperative technical services created with common user profiles and interests.

The CB did have control of the last: the potential in Ontario of a dedicated library computer at the University of Toronto. When we began, however, there was no indication of a Canadian National MARC Tape Service.

In those early days the University of Toronto had problems of its own to resolve, so that it was even doubtful whether it could take on a major role for libraries in the province. Fortunately, the manager of the computer unit of the Ministry of Education agreed not only to assist with system development, but to accept the role of intermediary in the provincial network which we considered must emerge.

At that time, while the major objective was still the production of a multimedia catalog to the resources of the colleges, it was deemed necessary to give greater priority to the development of an effective acquisition and accounting system. Apart from the fact that many colleges had inadequate bibliographic resources, and few, if any, qualified librarians, the complexity of the book trade in Canada, relying on imported titles from England and the United States, created considerable difficulty for college acquisition procedures. There was also a further complication; very few of the college requirements were to be found on the available MARC tapes, so that the immediate use of these tapes for the order system was considered impracticable.

The system which finally emerged has been documented,¹ but the following details may be helpful. Colleges may send their orders for any item, whatever the media, on a seven-part order form (figure 2). If the item has been purchased directly by the college, or received as a gift, the college may still send the item to the CB for processing and cataloging. If so, details are still input into the system for adequate control. College shelflist cards or a copy of the title page are acceptable alternatives—although these are not input into the automated system.

When the three top copies of the order form are received at the CB, copy 3 is immediately filed (by order number) to provide manual back-up. From the first two copies the information is verified, corrected or added to as necessary and then coded for the supplier. Copy 2 is sent to the supplier and copy 1 is used to keypunch the data into the system. At this stage the computer produces three punched cards coded with the order number. Originally this was considered to be unnecessary, but it was discovered that most receiving update errors arose from incorrect recording of the order number.

The three punched cards are filed with the order slip in an open-order file at the receiving department. If the item is clearly identified as one previously processed by the center and not likely to be a new edition when received, catalog cards, book card and spine label are produced and filed with the order slip and punched cards. Approximately 48 percent of the orders can be processed in this way.

At the same time the computer compiles an order status report by college in author sequence, together with two indices by order number and by author. Copies of each college order status report are sent to each college fortnightly. These reports provide complete information on the status of any order in the system (figure 3).

Initially the system is updated by either a status report from the supplier (figure 4), or the receipt of the item (figures 5 and 5a). If a supplier status report indicates the work is out of print, the record is held in the system for three weeks and then automatically deleted unless the college requests a search of the antiquarian market. If the order has been placed with a publisher or supplier who has no Canadian rights (a substantial problem in Canada), the order department searches for an appropriate supplier and issues a re-order update (figure 6) so that the system can then generate a reorder (figure 7). A separate subsystem maintains an agent/publisher file for this purpose. At present this file contains 3,500 addresses including North American and European suppliers.

If neither item nor report is received within a specified period a follow-up request (figure 8) will enable the system to generate a follow-up chaser. In fact, the CB is also chased by means of a computer listing if the item has been received at the CB but has been held in a department too long (figure 9).

The system is flexible in that:

- Each order number represents an individual title, but volume or part numbers added to the order number can identify each volume or part uniquely. Thus, multivolume works may be received without prior knowledge that the original order was indeed a multivolume work, by the addition of the volume or part number on the receiving transaction card.
- 2. A series of books may be ordered on one order number. Individual titles in the series may be received separately and are assigned an "ID discriminator" or identification code. This code is one digit, and uniquely identifies each title in the series, as the volume number uniquely identifies each volume in a multivolume work.

On receipt of an item which is part of the 48 percent already processed, the catalog cards, book card and spine label are matched; the book is jacketed and the item is ready for dispatch. As it is possible for this to be done within 48 hours, the system is capable of accepting a combined receiving/shipping update.

Of the 52 percent which have no catalog cards, once the items have been received they are checked once more against the union catalog. A further 16 percent are matched—that is they have been processed by the CB on a previous occasion; catalog cards can be pulled from stock; spine labels and book cards produced; the item jacketed; and then prepared for shipping.

Those items which have not previously entered the system meanwhile proceed to catalog for a search against the MARC records and against the various British, Canadian and LC catalogs. If a match is made, approximately 24 percent, the entry is photographed, verified, printed and the item proceeds through the rest of the system. The remaining 12 percent proceeds to original cataloging.

When items reach the shipping department they are packed in a shipping box and a shipping update (figure 10) is entered. The system then generates invoices (figure 11). One invoice acts as the packing slip and one is sent separately to the college financing officer. This year it is hoped that the second invoice will not be necessary for reasons which will be apparent later. Whenever necessary, through faulty or incorrect billing, a credit note can be issued and invoice adjusted by a separate update (figure 12).

In addition to the invoice, six colleges have availed themselves of an additional service. The CB can supply with each package an input to an automated circulation system in the form of tape records or punched cards. These records comprise data for author, title, accession number and LC call number. As the author and title are those input at the time of order input to the system it was considered probable that a large percentage would be incorrect. It certainly requires more care on the part of the colleges completing the purchase order. However, the additional verification at the CB generally insures reasonable accuracy and very few records need to be corrected by the colleges. At present three formats are available as described in table 1.

While the cataloging data base may eventually provide this data, at present the cost of providing it from the order system is so little that it may be the most economical technique. Thus for a box of fifty items, punched cards for all items in format 3 would be \$0.23 and a tape in format 1 would be \$2.20.

Apart from these aspects of the system there are additional subsystems

	Position	Field Length	Description
Format No. 1	1-7	7	Accession Number
(Magnetic tape,	8-9	2	Copy Number
9 track, 800 b.p.i.)	10-39	30	Author
	40-79	40	Title
Total record length:	80-109	30	LC Call Number
112 characters	110-112	3	Media Code
Format No. 2	1-7	7	Accession Number
(Magnetic tape,	8-9	2	Copy Number
9 track, 1600 b.p.i.)	10-15	6	Filler
	16-33	18	LC Call Number
	34-40	7	Filler
	41-100	60	Author
	101-160	60	Title
	161-164	4	Filler
Total record length:	165-167	3	Media Code
171 characters	168-171	4	Filler
Format No. 3			
(Punched card)			
CARD 1	1-7	7	Accession Number
•	8-9	2	Copy Number
	10	1	Card Number (always = 1)
	11-80	70	Author
CARD 2	1-7	7	Accession Number (same as card 1)
	8-9	2	Copy Number (same as card 1)
_	10	1	Card Number (always = 2)
	11-80	70	Title
CARD 3	1-7	7	Accession Number (same as cards 1 & 2)
	8-9	2	Copy Number (same as cards 1 & 2)
	10	1	Card Number (always = 3)
	11-40	30	LC Call Number
	41-42	2	Department Code
	43-45	3	Media Code
	46-80	35	Blank

Table 1. Formats

(There are always three punched cards for each record. We hope to standardize using formats 1 and 3.)

for financial and management control.

On receipt of the supplier's invoice a supplier reconciliation total card (figure 13) is completed and input into the system. A comparison is then made with the individual items received against that invoice number so that

discrepancies can be indicated in a supplier reconciliation summary (figure 14). Essentially the report pinpoints inaccuracies either at the CB or the supplier's end and insures that payment is not made for books listed on the invoice but not received.

The budget subsystem is particularly important and could save additional costs to the colleges this year. Each college will now pay 10 percent of its anticipated expenditure for the year through the CB on the first day of each of the first ten months of the year. Its account will then be debitted as items are shipped to it, and the budget system will provide the necessary statements.

The budget subsystem currently generates three reports:

- 1. The statement of commitment and expenditure (figure 15) which shows the funds committed (potential expenditures as represented by orders not yet received from the supplier nor shipped to the colleges) and actual expenditures (actual net costs including charges for binding, shipping, etc., for shipped items). This statement can be prepared for each department in a college, and is further broken down between print and nonprint materials. An average cost of print items for the campus is also given.
- 2. An analysis of item cost by subject (figure 16) showing the average cost of an item in a particular subject (LC class number groupings) and comparing it against the average cost for the previous six months.
- 3. An analysis of item cost by media (figure 17) which, again, illustrates the average cost of different nonbook media. A detailed media code has been devised not only for this purpose but as a technique for searching the catalog data base.

Finally, a management information subsystem assesses the quality of supplier service to the CB. The report shows average time between order and receipt of items at the CB, the number of CB chasers generated and the level of discounts provided.

Even though detailed costing of the operation is under constant study, it is not easy to isolate each system nor to provide data for accurate comparison. There are no hidden costs at the CB as the unit is separately financed and all overheads, including computer costs, are distinguishable. However, the enormous variety in the colleges and their input costs preclude a factual costing of the total system from raising an order in the college to placing the item on a shelf. Nevertheless, there are some significant pointers. One college has never joined the system. Its library's operating costs are now three times those of any comparable college in the system.

However, before commenting on costs, a brief study of the main cataloging function might be appropriate. The CB has developed a machine-readable catalog of all the items it has processed. While LC MARC tagging was not utilized, the system was so devised that all significant elements could be compatible with the data appearing on MARC tapes to facilitate access in any network proposal.

It should be realized that in the adoption of the system it was necessary to maintain the flow through the organization and the existing college card catalogs. However, the main objective would be the provision of more adequate user-orientated indices and retrieval facility. As a multimedia approach was necessary, it was decided that there could be only one format, but the media code would indicate the kind of data appearing within a field in the system. In other words, we did not choose to accept the LC pattern of creating separate MARC formats for each media.

One other significant concern emerged. To meet the needs of users in an educational environment it was deemed necessary to consider more, rather than less, search codes. The CB is now applying the Intellectual Level Code recommended by the Canadian MARC Task Force, literacy and numeracy codes, course or program codes, a copyright code (for audiovisual material) and bilingual subject headings. In order to meet projected search and print requirements it was decided to adopt the British PRECIS system. This has only recently occurred and further development is still necessary.

In order to create the machine-readable catalog three techniques were adopted:

- 1. A punch card is input with accession number and LC MARC number for all items located at the time the item is searched against the LC catalog data. This LC MARC record is then input into the CB data base together with any codes or additional data required.
- 2. Data for items originally cataloged are prepared on Flexowriters. A subsidiary tape is created from which catalog cards are prepared and printed. The master tape containing fully coded data is converted to magnetic tape and input into the CB catalog data base.
- 3. Each catalog card for those items forming the retrospective file is coded and then typed using an OCR font, optically scanned and so input into the data base. Pre-1968 items for which an LC catalog entry is photographed to prepare card sets, are also input into the system in this way.

The data so obtained is now in the process of being structured and formated for subsequent manipulation.

To facilitate this system and the proposals for future developments the CB has entered into a contract with the University of Toronto. Eventually this will mean full participation in a system of shared cataloging with other users, but that is still under development.

In the meantime, the University of Toronto operates on our behalf a new books listing which is a combination of records appearing on LC and BNB MARC tapes. These are arranged according to the major programs offered by the colleges (figure 18). A copy is sent to each college in loose-leaf format, so that only the appropriate sheet need be given to a member of the faculty. It is hoped shortly to incorporate the Canadian MARC records and, possibly, the French MARC records. There are two points of special interest: a list for Canadian studies uses a search on the LC area code-a very simple search device; and the input of C.I.P. records has led to us placing orders with publishers prior to their announcement of publication, a fact which has caused some astonishment from publishers. However, there is one major disadvantage of this service expressed by the faculty. Too many items are not relevant to their requirements, not by subject but by level. It is infuriating that national MARC services still refuse to apply an intellectual level, so that it is impossible to distinguish kindergarten from school, or college from postgraduate studies. As most publishers use simple codes in their catalogs, it is no longer true that publishers will not agree to the use of such codes.

The first major manipulation of the CB machine-readable catalog has been the production of the union catalog of films (that is, film, videotape and filmloops). This will be regularly updated and cumulated. There are three sequences: (1) the subject catalog arranged under the main college course programs, (figure 19); (2) a name/title index compiled by the computer (figure 20); and (3) a subject index compiled manually to PRECIS configuration but which eventually will be machine generated (figure 21).

Perhaps a simple statement at this stage will suffice on costs. The total cost of administering the CB with all that I have described, excluding \$54,000 required for creating the retrospective machine-readable catalog (approximately 180,000 records), but including all the functions as outlined at the beginning of this paper, divided by 160,133 (the total number of items we processed for the year 1972-73), creates a unit cost of \$5.60. While this is a very basic costing, it can be compared with the Universities of California and Saskatchewan, and demonstrates that automation need not waste money, but to the contrary, can save while improving services. It need not have cost us as much if we could have controlled the information we needed to input into the system more effectively.

I do not think the user requires much of the bibliographic data we input—and I think he would prefer more valid information on intellectual

content. However, the technical library service is the servant of librarians so, while we must wait patiently for the real user to comment, we can still hopefully cater to some of his unvoiced needs by using codes which no one but we can see at input. Sooner or later librarians will understand that cost effectiveness means providing services for the patrons at a price they can afford.

REFERENCE

1. College Bibliocentre Acquisition and Accounting System Description Manual. Toronto, College Bibliocentre, 1970, p. 18; and College Bibliocentre Acquisition and Accounting System Operating Manual. Toronto, College Bibliocentre, 1971, p. 50.

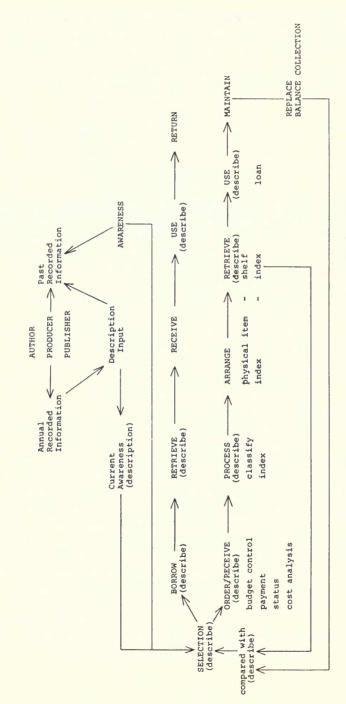


Fig. 1. Flow Chart of College Bibliocentre Functions

Computer then automatically creates a new record with the same information as the first volume input.



Fig. 2. Seven-Part Purchase Order Form (To be Completed by the Purchasing College)

First 3 parts sent to CB. Information verified; corrected or added to as necessary. Supplier code applied.

Copy 1 to Keypunch

Copy 2 to Supplier

Copy 3 to File (back-up only)

Information house	a ala a d s		
Information keypun Order number	(9 digits)	mandator	y)
	()		
Volume	(3 digits)	optional)
Part number	(2 digits)	optional) Forms key to system
Supplement indicator	() (1 digit)	optional))
Author Title	(120 digits) (variable))	optional	
Series Title	(variable)	(1 of 2 (mandatory	
Department Code Supplier Code	(2 variable) (2 variable C	optional anadian	
	(7 variable F	oreign	
Country of Publica Date of Publication Edition Number of copies	ı =	(1 digit) (4 digits) (6 digits) (3 digits)	optional optional mandatory
Date of Order		(6 digits)	not keypunched, automatically applied by computer on addition to master file
Currency Code		(1 digit)	Can., U.S., Brit., French,
Set price indicator		(1 digit)	For volume sets
Estimated Price		(6 digits)	mandatory (\$10.00 per item automatically assumed by computer if not input.)
Media Code "Copy-previous-dat	a" Code	(3 digits) (1 digit)	for multivolume sets where information is same for all volumes—one card for each additional volume or part is punched with order no., vol. no., pt. no., etc. and this code Computer then automatically creates news record with the same information as the

first volume input.

and the same of th	R YERSON POLYTECHNICAL IMST.	. ACCOUNT NO. 21-3021-3899-0801 PAGE 411 CUMULATIVE PAGE 02207	I CUMULA I	IVE PAGE UZZU
	AUTHOR / TITLE	ORDER ND. ORDER DATENO. CF CCPIES	CF CCPIES	STATUS DATE
MEREDITH, GEORGE WORKS OF		301097764 MAR. 05 73 L L 1 RECEIVED - ORIG. CATALOGIMG	•	MAR. 14 73
MERGERS, CONSOLIDATIONS AND BIG BUSINESS MERGERS, CONSOLIDATIONS AND BIG BUSINESS	45 ANG BIG BUSINESS NS ANG BIG BUSINESS	30106547C JAN, 17 73 L 0	0	JAN. 17 73
MERRILL, JOHN CALHOU FOREIGN PRESS		301094393 JAN. 28 73 L L	0	MAR. 14 73
MERRYWEATHER, F.S. BIBLIDMANIA		30107454£ FEB. 19 73 1 0	0	FEB. 19 73
MERTES, J.E. CREATIVE SITE EVALUATI	MERIES. JAE. CREATIVE SITE EVALUATION FOR THE SMALL RETAILER	301041777 JAN, 30 73 1 0	0	
ESARDVIC, MIMAJLD D. IEMS ON GENERAL SYSTE	MESARDVIC, MIMAJLO D. VIEWS ON GENERAL SYSTEMS THEORY: PROCEEDINGS SYSTEMS SYMPOSIUM-ZND	1 DRUCKEU	0	KAR. 15 73
MESEROLE, MARRÍSCM T. SEVENTEENTH-CENTURY AMBRICAN POETRY	WICAN POETRY	301058239 MAR. 15 73 1 0	0	HAR. 15 73
MESSICK, MANK JOHN EDGAR HOOVER: AN	MESSIGK, MANK JOHN EDGAR HOOVER! AN INQJIRY INTO THE LIFE AND MIS RELATIONSHIP	301094200 MAR. 15 73 1 0 P T 1 NO CAN. RIGHTS - RE-DRDERED	0	MAR. 15 73
MESSNER, RICHARD HON TO SELL PRIMING AND LITHUGRAPHY YOU, 001	AND LITHOGRAP PY	301051774 OCT. 26 72 2 0 2 OUT OF PRINT-SEARCHING	0	FEB. 23 73
METCALF, W. STARTING & MANAGING A	METCALF, W. STARTING & MANAGING A SMALL BUSINESS OF YOUR OWN	301041764 DEC. 21 72 1 0	O ING	FEB. 19 73
METHOD FOR DETERPINING RIALS METHOD FOR DETERMINING	METANG FOR DETERPINING THE SPEED OF SENSITIEED PHOTOGRAPHIC MATE. 118180 HETHOD FOR DETERMINING THE SPEED OF SENSITIZED PHOTOGRAPHIC MATERI	E 30 1094424 JAN. 30 73 I 0	O	HAR. 14 73
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Fig. 3. College Order Status Report

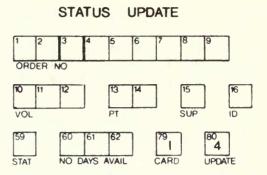
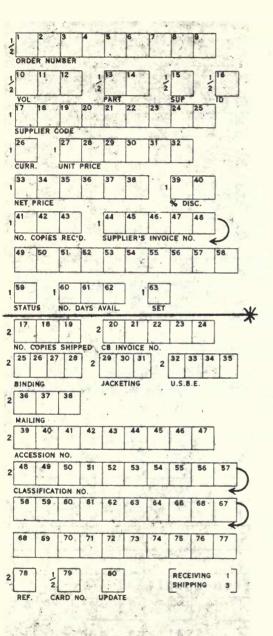


Fig. 4. Status Update Input Form

Report from publisher indicating delay of item translated to status code and input to system. Although normally a punched card is used, the information input is as shown above.



On receipt of item this form is filled out as far as indicated by the asterisk. Order number MUST be present. Vol., pt. sup. is normally identical to prepunched cards, although additional vols. or parts may be added at this stage if necessary. Supplier code is only input if different from supplier to which order was mailed.

Currency code is input if necessary and the computer will convert to Canadian currency to bill ordering College. Conversion rates are input monthly.

Unit price Two of these must be Net price present. Computer calculates Discout missing field.

Number of copies received must be present.

Supplier's invoice number or date must be present. Status code present if item is to be bound, or, in the case of A/V material, the item is going to original cataloging.

Set price indicator if the set price is charged against this colume. All subsequent volumes on this order number will be invoiced as no charge.

If the number of copies received is less than the number of copies ordered, the computer will create a new record for the outstanding portion and identify it with an "ID discriminator" code. New cards will be produced for this to be replaced in the open order file.

Fig. 5. Receiving Update

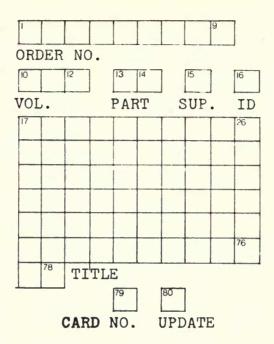


Fig. 5a. Series Title Receiving Update

If the item received is one in a series or standing order, a second card will be punched with the specific title.

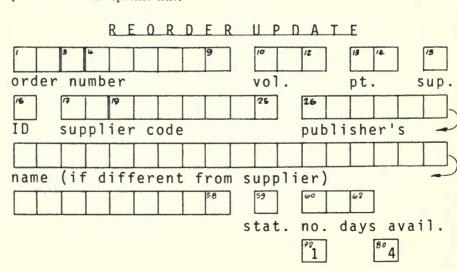


Fig. 6. Reorder Update

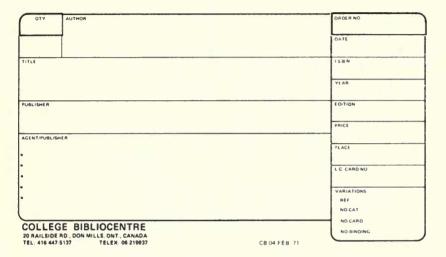


Fig. 7. Reorder Form

New order form printed by computer on receipt of reorder update.

This is automatically produced by computer on time basis of country of publication and location of supplier. Supplier's name and address are printed by computer. Perforated form can be torn off, checked by publisher and mailed back to the CB since the address is printed on the reverse.

FOLLOW UP ONLY	THIS IS NOT AN ORDER
ORDERED ON MAM CC	TUS OF OUR ORDER NO. XXXXXXXXX YY FORMS COPY(IES) OF WHICH NDING IS 99 COPY(IES)
AUTHOR:	***NO. OF CHASER. 001***
TITLE:	
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Fig. 8. Follow-up Request

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-- COLLEGE BIBLIOCENTRE REMÍNDER REPORT ---

Fig. 9. Reminder Report

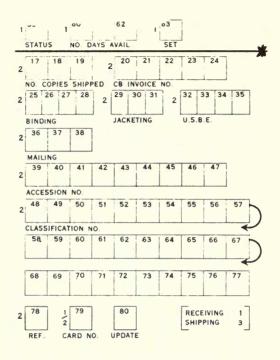


Fig. 10. Shipping Update

Information is filled in for a shipping update below the asterisked line.

Number of copies shipped - mandatory

CB Invoice Number — mandatory (1 invoice number is applied to each

Box)

Binding charge — if item was bound

Jacketting charge — if item jacketted

United States Book Exchange — if applicable

Mailing – automatic 0 for CP items

- automatic 10¢ for ordered items

Mailing is filled in only if the mailing charge should obviously be more or less than the automatic charge.

Accession and copy numbers — mandatory Classification number — mandatory

Reference – if item is to be used as a reference book

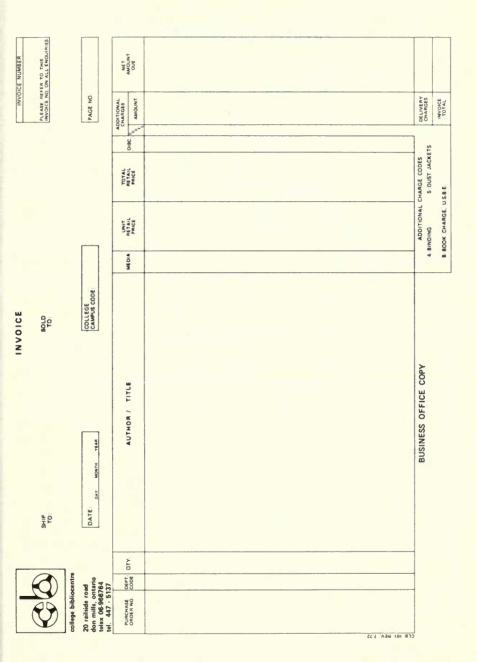


Fig. 11. Invoice Computer Printed from Shipping Data

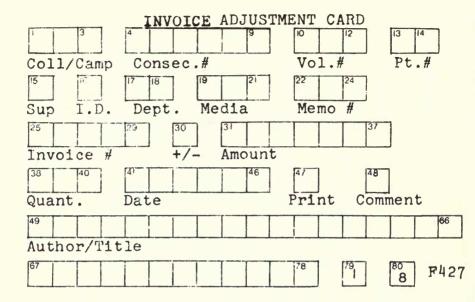


Fig. 12. Invoice Adjustment Card

Used if credit or debit memo is necessary to adjust the invoice. Same form is used for printout as invoice. Stamped "CREDIT NOTE" if a credit.

SUPPLIER REC ONCILIATION TOTAL CARD

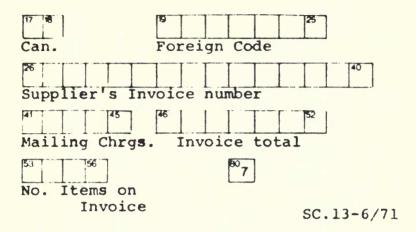


Fig. 13. Supplier Reconciliation Total Card

Status updates as items move through manual procedures are written on one of the prepunched cards, and subsequently keypunched to update the system.

This is filled in at the time of receipt of invoice. Comparison is made with this and the computer calculation of individual items received against that invoice number. Discrepancies are then indicated in a regularly produced report.

10.02.73		and the second s	SUPPLIER RECONC	RECONCILATION SUMMARY			д	PAGE 1
SUPPLIER	INVOICE	NO. OF COPIES INVOICED	NO. OF COPIES RECEIVED	TOTAL COST OF BOOKS RECEIVED	MAILING CHARGES	TOTAL	INVOICE TOTAL	AVERAGE
ALDATHE	036968	2	2	19.45	00.00	19.45	19.45	
AMERFOU	1927	п	1	25.00	.30	.30	25.30	
AMNURSP	240173	6	6	82.35	3.00	85.35	85.36	
APERTUR	5981	1	1	8.50	00.00	8.50	8.50	
AUTOBOP	4319	П	1	4.95	.25	5.20	5.20	
CANFIEL	1896884	1	1	4.95	00.00	4.95	4.95	
CHAINST	8964	1	1	1.90	00.00	1.90	1.90	
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DABNEYC	1311973	2	2	30.95	00.00	30.95	32.40	
DABNEYC	131973	П	1	10.95	00.00	10.95	10.95	
DVPMENT	PREPD762	2	2	31.50	00.00	31.50	31.50	
FX	080273	7	1	00.00	00.00	00.00	00.00	

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Fig. 15. Statement of Commitment and Expenditure

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PG. 31

GENERAL ARTS AND SCIENCE CANADIAN STUDIES

CS90.B85 1971

Moorhouse, Eric Gelling, A brisf record of the femily of Benjemin Lionel Burdon and Wilhelmine Mergaret Gelling, IToronto, Author, 15% Wimbiston Road, 1slington, Ont. 19711 64 p. \$3.50

1. Burdon femily. C71-45%0 7219%590

E75 .P75

Price, John A., 1933-. U.S. and Canadian Indian periodicals. Minneapolis, Training Center for Community Programs, University of Minneaols, 1971. 21 1.

1. Indians of North America - Periodicals.

72611897

E78.C2 B38 1973

Batty, Bestrice (Stebbing), Forty-two years amongst the Indians and Eskimo, Boston, Gragg Press, 1973.

- p. (History of minority education)
 1. Horden, John, Bp. of Moosonee, 1828-1893.
- 2. Indians of North America Canada Missions.
- 3. Northwest Territories. Con.

0839801963 73001811

E92 .152

The Indian: essimilation, integration or separation. Scarborough, Ont., Prentice-Hell of Canada [1972] vi. 248 p.

1. Indians of North America - Canada - Government relations - Addresses, essays, tectures.

0134569547 C+++ 72004878

E99.E7 R5413 1973

Rink, Hinrich Johannes, 1819-1893. Tales and traditions of the Eskimo, Boston, Gragg Press, 1973. p. (History of minority education)

1. Eskimos. 0839817770 73001790

E183.8.C2 148

The Influence of the United States on Camedian development: slaven case studies. Durham, N.C., Duke University Press, 1972. xii, 269 p.

1. United States - Relations (compres) with Cameda -

1. United States - Relations (general) with Canada - Addresses, essays, lectures.

0822302748 72081337

E551 ... R37

Barry, James P. The fate of the lakes, Grand Rapids, Baker Book House (1972) 192 p. \$14.95 1. Great Lakes - Description and travel.

0801005876 720877%

F1059.W32 M69 1970

Moyer, William G. Bill Moyer's Waterloo County diery. Kitchener (Ont.) CHYM (c1970) 145 p. 81.75 (pbk.)

1. Weterloo Co., Ont. - History.

GENERAL ARTS AND SCIENCE

CANADIAN STUDIES

C71-3398 72169828

F1059.5.V38 R42

Reamen, George Elmors, 1889-1969. A history of Vaughen Township, IToronto, Printed at the University of Toronto Press, c19711 346 p. 85.00 1. Vaughen Township, Oni. - History.

Cess 72170923

F1060 .R8 1971

Russell, Reiph Clifford, The Cariton Frail. (2d ed. rev.) Seskatoon (Sesk.) Prairie Books, 1971. xv, 158 p.

1. Carlton Trail. 0919306306 Coss 72197433

F1089.7.A1 N6

Norris, John M. Strengers entertained. [Vencouver, British Columbia Centennial '71 Committee, 19711 259 p. 88.95

1. Minorities - British Columbia. 2. British Columbia - History. Code 72170963

6525 .55773

Snow, Edward Rowe. Ghosts, gales and gold. New York, Dodd, Meed 119721 x11, 263 p. \$5.95

1. See stories. 0396066585 72003936

G1189.S2 P4 1969

Pearson, R. E., comp. Atlas of St. John's, Newfoundland, ISt. John's, Newfoundland, 19691 1 v. [unpaged]

1. St. John's, Newfoundland - Maps.

Coop 72650133 /MAP

Fig. 18. New Books Listing

PHYSICAL SCIENCES

01086 (CONTINUED)

INDEX NO.

Tells the story of men in the forefront of the ecientific revolution that extends the power of men's brain and charts the world of the future. Points out that men, today, lives in an environment he has created and that he is trying to understand.

0240598

00180

POLITICAL SCIENCE

01087 BERTRAND RUSSELL DISCUSSES POWER .Chantern Films, England, 1959. Released by Coronet Films. 1961.14 min. sd. b & w. 16 mm.

> Lord Russell speaks of three kinds of powers the power of armies and police forces, economic power, and propaganda power.

0238425

JC257

01088 CHROMOPHOBIA .Belgium Ministry of Nelional Education and Culture, Brussels, 1968. Refeased by International Film Bureau.11 min. sd. col. 16 mm.

> Presents the dilemma of a society caught in a militaristic dictatorship, and shows the eventual victory of the free spirit.

0241803 17.1 JENNY.

01089 MR. CHAIRMAN .Cineffects, Refessed by Encyclopaedia Britannica Films, 1959. 13 min. sd. b & w. 16 mm.

> With guide. Shows in a series of dramatic episodes, presented in animation, how any organized group can talk things over and reach decisions efficiently and fairly.

0248428 28 %

JF515

01090 TAKE 30: DOCTOR BENJAMIN SPOCK .CBC.1971. 26 min. sd. b & w. 16 mm.

> Special produced for the television program, Take 30.Filmed at Centennial College. Dr. Spock speaks about dissent and civil

POLITICAL SCIENCE

INDEX NO.

01090 (CONTINUED)

disobedience, and answers questions from the audience.

0252399

JC328

WOMEN ON THE MARCH . National Film Board of Canada, 1958, 59 min. sd. b & w. 16 mm.

> Records the struccis of women for equal rights that characterized the suffragette movement. The film is divided into 2 parts, the first dealing with the fight for the franchise; the second dealing with the status of women today.

> > 17.1

0249763, pt.1 0249764, pt.2 FR48

PSYCHOLOGY

01092 2 1/2 .Netional Film Board of Canada, 1965. 8 min. sd. b & w. 16 mm.

> A camera study of infant child bahavior. Shows two toddiers, aged two-and-a-half, at play without adult surveillance or interference.

0249748 26. 2 BF 723.16

01093 ADDLESCENT DEVELOPMENT SERIES. Emotional maturity .McGrawHill,1958. 20 min. sd. b & w. 16 mm

> Correlated with the book Adolescent development, by Elizabeth B. Hurlock, Dramatized incidents are used to explain a high school boy's immature behavior. Shows some of the consequences of an adolescent's failure to channel his emotions into positive actions and feelings. Illustrates how important it is for adults to understand the increased emotional lempo of adolescence in order to help young people develop emotional maturity.

0240273 17.1 BF 724 . HB2

01094 ASSEMBLY LINE . Annenberg School of Communications and the Institute of Cooperative Research, University of Pennsylvania. Released by Brandon Films, 1961.

Fig. 19. Sample of Union Catalog of Films (Section Arranged by College Program)

TEACHER AND TECHNOLOGY.	
Communication theory and the new educational	TECTONIC MOVEMENTS.
media	Geography
TEACHER EDUCATION IN MODERN MATHEMATICS.	TEE PEE PRODUCTIONS.
Concept of functions	Jazzoo
Number fields	TEENAGE REVOLUTION
TEACHER EDUCATION SERIES.	TELEVISION AND THE WORLD
Reading development in the secondary school	TELEVISION CAMERA TUBE
	TELEVISION PICTURE TUBE
TUACHER TRAINING FILM SERIES.	TELEVISION TRAINING FILMS,
Blocks a medium for perceptual learnings 00730	Video tepe editing
TEACHING FILM CUSTDDIANS.	TELL ME IF ANYTHING EVER WAS DONE
Art director01245	TELL-TALE HEART 0133
TEACHING JOHNNY TO SWIM	TENSILE AND COMPRESSIVE STRUCTURES.
TEACHING MACHINES AND PROGRAMMED LEARNING 00731	Engineering film
TEACHING THE WAY THEY LEARN: REMEDIATION OF	TEST YOUR TASTE
LEARNING DISABILITIES.	TESTIMONY AND COURTROOM DEMEANOUR
Learning series	TESTING LAB.
TEACHING THE 3'S, 4'S AND 5'S.	Developing supervisory leedership skills Case
Guiding behavior	study #3
Setting the stage for learning	TEVYE 0133
TEAM BUILDING.	TEXTURE AND LIGHT.
Gellerman effective organization, #5 00093	Elements of ert: texture series, #5 0077
TECHNIQUES IN CHEMISTRY SERIES.	TEXTURE TECHNIQUES.
Filtering	Elements of art: taxture saries, #4 0077
Titrating with phenolphthalein01533	THAT WAR IN KOREA
Using a burette	THAT'S ME 0133
Weighing procedure	THEORY OF THE LEAD-ACID STORAGE BATTERY 0153
TECHNIQUES OF NON-VERBAL PSYCHOLOGICAL TESTING.	THEORY X AND THEORY Y: WORK OF DOUGLAS MCGREGOR.
	PT 1: DESCRIPTION.

Fig. 20. Name/Title Index to Film Catalog

ENGLISH LANGUAGE Paragraphs. Composition Spelling	578 S57	EPIDEMIOLOGY. Food poisoning caused by Staphylococci	1168
Syntax Use of words	570 573	EPEOEMIOLOGY. Salmonellosis. Livestock	331
	3/3	EPIDEMIOLOGY. Salmonellosis. Medicine 331	1167
ENGLISH LITERATURE Sec alau DRAMA IN ENGLISH FICTION IN ENGLISH HUMDUR IN ENGLISH		EPILEPSY See also CHILDREN WITH EPILEPSY	
POETRY IN ENGLISH PROSE IN ENGLISH		EPILEPSY	333
ENTERTAINMENTS Sec also		EQUATIONS Differential equations. Numerical solutions Iteration, Newton method	1083
CIRCUSES PERFORMING ARTS		EQUILIBRIA. Chemical reactions	1428
RODEOS SWIMMING DISPLAYS		EROSION. Stream beds	1437
ENTOMOLOGY See also		ESKIMO VISUAL ARTS. Cape Dorset. Northwest Territories	895
INSECTS ENTREPENEURSHIP Role in economic growth	638	ESKIMOS Legends Social change	
ENVIRONMENT		ESTRUS See DESTRUS	
See also ATMOSPHERE LAND		ETHICS Environment. Pollution	635
ENVIRONMENT Pollution Pollution. Ethics Pollution by refuse - Numozous	1849-1851 635	ETHIOPIAN-ITALIAN WAR 1935-1936 See ITALO-ETHIOPIAN WAR 1935-1936	
Erealments.	1861	ETHNIC TYPES See alau	
ENVIRONMENT. Canada Conservation, Civilian Conservation Co.	rps 271	RACIAL TYPES	
ENVIRONMENT ENGINEERING		EUGLENA GRACILIS	1138
See also AIR CONDITIONING PRESSURISATION		EUROPE Foreign relations. Munich Conference, 1932	924
ENVIRONMENT PLANNING		Hundred Years' War. Battle of Agincourt, 1415	987
TOWN PLANNING		EUROPEAN ARTS	956
ENVIRONMENTAL FACTORS See alao ECOSYSTEMS		EUROPEAN CAMPAIGNS See alao	
ENVIRONMENTAL FACTORS	488	EASTERN EUROPEAN CAMPAIGNS WESTERN EUROPEAN CAMPAIGNS	
Psychology	900	EUROPEAN CULTURE	945
EPIDEMIC ENCEPHALITIS. United States Public health measures	298	1700-1800 c.1780-1900	947
EPIDEMIOLOGY, Oiseases caused by staphylococci	332	EUROPEAN VISUAL ARTS 1400-1500 1600-1700 945	951 955

Fig. 21. Subject Index to Film Catalog