

Wayne State University Libraries

Memorandum

TO: DALNET NOTIS Coordinators
FROM: Louise Bugg *Louise*
SUBJECT: NOTIS Users Meeting, July 9-11
DATE: July 14, 1986

RECEIVED

JUL 18 1986

Wayne State University
Library Office

Here is my report--with several handouts--of the first day of the NOTIS Users Meeting at Northwestern. The second and third days I spent mostly in technical meetings. Charlene Wecker and Nancy Allen attended additional function sessions, and I will forward their reports to you as soon as they are completed.

Good news! Each institution participating in a NOTIS site is allowed to send representatives to the Users Meetings, so each of you will be able to send staff next year, if you've signed up with DALNET.

I will be on vacation from July 16 through July 29, but I would like to call a NOTIS Coordinators Meeting for Monday, August 11, from 9a.m. to noon the the Purdy Library Director's Conference Room. If you cannot attend, please call my new secretary Susan Forshey at 577-4005.

We need a preliminary review of your bib database loader specifications to send to NOTIS so they can schedule the programming for your loaders. Charlene will attend our meeting to discuss this with you.

See you soon!

LB/smf

cc: C. Wecker
J. Williams ✓
N. Allen

86-233

NOTIS USERS GROUP MEETING SUMMARY

July 9-11, 1986

I. July 9

A. Jane Burke's introductory remarks

Negotiations with TBG are in second phase, to be concluded by the end of August. The standalone company formed will probably be named NOTIS, with offices on the NU campus. NOTIS will re-locate to a "new" building (into 10,000 sq.ft.) in Jan. 1987, and will eventually get their own computer.

Libraries with assignment provisions in their NOTIS contracts will have to give permission to pass their contracts to the new company. The WSUL contract has such a provision.

Staff size is expected to double by Dec. 1987 (from 29 to 60), with significant growth in the development area.

Info regarding NOTIS enhancements will be published in an issue of NOTISEs. NOTIS 4.3 -- VSE version -- is now out. The MVS version of 4.3 will be distributed within 2 to 3 weeks. NOTIS 4.3 SHOULD BE INSTALLED BEFORE A LIBRARY ATTEMPTS TO BRING UP CIRCULATION, since many fixes for circ are in it.

The next release is 4.4, which is scheduled for both VSE and MVS in December 1986. It will include: keyword and Boolean searching via the BRS software; fund accounting and invoice processing, which is Phase I of the Harvard enhancements; system-wide holds; display multi-volume circulation status in LUIS; spine label printing; RLIN to NOTIS online interface; program for production of a COM catalog tape with holdings; and implementation of 8xx fields in bib records for MARC holdings data.

Other areas in development may have pieces issued with 4.4, if available, including SAS files; bill and fine module; Reserve Book Room; index re-design; software to load the LC subject authority file; and a batch linker for linking circ files from different systems to the NOTIS bib database.

See separate sheet for summary of NOTIS enhancements ballot and resulting NOTIS development priorities.

B. Users' Role Call

Each institution present had to report on the status of their installation. Present were reps from 78 institutions, included in 65 installations. This means that installations with multiple institutions can send reps from each institution, so DALNET libraries could each send reps. Of the 65 installations, 55 have been installed. Of the 55, 29 are VSE sites and 26 are MVS.

NOTIS installations have been categorized as 49 academic, 5 special/corporate, 5 state or national, 5 public, and 1 school.

Installations that were similar to WSUL included: Dallas Co Comm Coll, Kent State U., Louisiana State U., U Delaware, U Louisville, U Pittsburgh, U Vermont, NASA, Bell Comm Res.

C. Descriptions of Enhancements being designed

1. Keyword and Boolean Searching -- Jane Burke

Two interfaces being designed for LUIS users: (1) simple interface for patrons and (2) more complex interface for Reference librarians.

(1) The simple interface will add a new index point to the opening screen: K for Keyword. (See sample screens attached). Implicit "and/or" with 2 words; can qualify, e.g., by date if indexed; help; and/or/not/x-or; adjacency; and nesting.

(2) The complex interface will be able to store searches temporarily; chain 2 searches; use root and pref; and print.

Each institution will be able to choose the tags to index for keyword and Boolean. Using "Mentor", online screen changes will be possible locally. Responses to a query may be limited. NUL testing with a limit of 100 responses.

The testing has not resulted in enough data to report on response time implications.

NOTE: the indexes needed for keyword and Boolean will take almost as much space as the bib file itself, averaging 900 characters per record. This will require almost doubling disk space at each site that implements keyword and Boolean. The module is quite separate from the rest of the NOTIS modules, so a site could choose to delay implementation if it doesn't have enough storage.

(2) Harvard enhancements for Acquisitions -- Roberta Kirby

Phase I functions were put into test mode at Vanderbilt using the VSE version of NOTIS in May 1986.

Phase I includes: a multi-year fund record, with money separately defined for each fiscal year; an online invoice record, which can be stored together with the fund records in the same or separate files as the bib and holdings records; online fund accounting, with the system accessing the fund record automatically; invoice processing, with discounting, and the ability to "cut" vouchers; worksheets; and audit trail. No new reports are included. Have to use SAS to create own reports. Target: Release 4.4, Dec. 1986.

Phase II includes: currency conversion; LUIS messages; order templating, new and revised batch products; index access to fund, invoice, and opr records; purge programs. Target: end of 1987.

See handouts attached.

(3) Index redesign -- Velma Veneziano, NUL

Objectives: cross-references into LUIS and improved catalog, i.e., database, management.

New indexing: a new index record is created with control info that doesn't display, creating almost a "mini-bib" record. Increases the size of the index record, with 120 characters from the heading and 70 from the qualifiers, so more disk space be needed. It is a dictionary index, so the structure is the same for all headings indexed and they are all stored in one index. Headings referred from are also indexed. Carried in the index entries with be format, type of material code, and other data to allow eventual restricting of a search.

The goal is to update these new indexes online once they have been initially created, because the batch creation takes so long. For NUL's database of 900,000 bib and 350,000 authority records, the new indexes, with 4.5 million index records, take 6 hours to update in batch mode. Ideally, a batch update will only need to be done twice a year. However, an online indexing capability is needed for tape loading to attain this ideal.

Catalog, i.e., database, management: easier to identify conflicts with x-refs; series will be subarranged by title followed by volume number; subject index will initially be subarranged by title, with no option to sort by date until later.

Further development: new guide screen display; "expand" command for index entry to include location and call number; search by "catalog", into which location codes be grouped; tailor references to a "catalog".

(4) Circulation -- Bruce Miller

Release 4.3 includes display of items currently charged to patrons.

Course Reserve: the first part is done, with multiple sub-records within an item record and special user notes fields to drive LUIS messages. These note fields have action dates. Target: end of 1987.

Financial obligations package: specs are done, with an external billing file capability and the ability to add to an existing bill and fine record, rather than create a new one.

(5) Linked Systems Project -- Jim Aagaard

GEAC/RLIN interface testing at NYU; already has to be modified for the final ISO standards. Goal: intersystem searching, e.g., NOTIS terminal able to search OCLC or RLIN with conversion of search format by machine. Beginning with known item searching.

NOTIS development just beginning, using IBM Series 1 mini, with software from RLG and LC. Transferring terminal emulation to IBM 7171. Long way to solution. Three protocols involved: MARC, information referral, and ILL.

(6) Serials Redesign -- Jane Burke

Peggy Steele will be working full-time on serials redesign analysis for the next 6 months. She will be working on these areas, in this order:

- (a) full implementation of the MARC format for holdings and locations (MFHL, i.e., "MUFFLE");
- (b) online transfer of info regarding invoices, claims, orders to and from Faxon and Ebsco;
- (c) routing, bindery control, and automatic claiming and check-in prediction for certain titles;
- (d) re-design of screen layouts.

II. July 10

A. NASA's NOTIS Implementation

The NASA representative described their implementation of NOTIS at 15 sites throughout the U.S. With a staff of 30, they are beginning with equipment installation and database loading. Four sites have equipment installed, one site has a database loaded, and 4 of 16 development tasks have been completed.

The sites are using Local Area Networks of IBMpc's, either IBM PC Network or 3-COM Ethernet, often on mutli-dropped circuits. The whole database of all sites is expected to reach 900,000 records.

Handouts for the planning of their ARIN, Aerospace Research Information Network, reveal the considerable amount of planning that goes into implementation for multiple sites. Similar processes will be needed for DALNET implementation.

B. "Open" Forum -- Jane Burke

What I expected to be an open session for questions from the audience turned out to be an open discussion on topics selected by Jane Burke.

(1) Bitnet communications -- John Taylor of BYU

All institutions on BITNET, incl. WSU, welcomed the opportunity to communicate via Bitnet. BYU has set up a list of NOTIS user addresses to which messages can be broadcast. WSU is already in the list.

(2) Symbol Technologies

A standard NOTIS discount schedule (20-25%) has been negotiated, to be coordinated thru one office.

(3) Telex

Jane was unsuccessful in negotiating a standard NOTIS discount schedule for Telex products. Telex may develop support of the ALA character set on their Telex 260, and IBMxt emulator. This would provide an SNA solution.

(4) New IBM ALA terminal

New 3164 (color) model was on display during the meeting. It is an ASCII terminal. U. Minnesota is pursuing with IBM the development of an SNA terminal, e.g., using a 3270pc or a 31796.

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(5) Enhancements ballot

Several suggestions were made to make the ballot more helpful, including sending it sooner, adding more explanation of the items listed, indicating how much effort would be required for each item, gathering suggestions ahead of time from users, adding a section for programmers.

(6) Users meetings

Considering Spring, because too difficult for everyone right after ALA; costs more than \$10,000 for this meeting; individual libraries are always welcome to initiate functional users meetings to which NOTIS will send appropriate reps.

The idea of a Users Council elected from NOTIS users was discussed, without much support yet. As NOTIS grows, the users will likely need to become more organized, as with the groups of other vendors. The main need identified was that of communication among users -- to know who is doing what and who the experts are at each site.

The NOTIS contact person form was distributed to each installation to be corrected and returned for distribution to each site in the fall.

C. Advanced Discussion of NOTIS Tables -- Jerry Specht

Several problems were discussed, including:

(1) With LC100, a line with a continuation mark cannot be commented.

(2) Terminal table -- set up primarily for circ, so don't need to list all terminals; for those other than circ, use default, listing all processing units for each service unit; lock dial-up into LUIS only; set up a Technical Services service unit to enable check-out to bindery.

(3) 100TBL -- when adding a new processing unit, be sure to add it to 100TBL LOCTNI. The program will assemble without doing so and then there will be problems later.

(4) Security -- Florida Center for Library Automation (FCLA) has established about 10 standard types of security. They are giving departmental operator ID's, mapping more than one password to the same CICS operid. Change passwords every 30 days.

(5) Table forms -- sample forms for helping library staff fill out the tables will be gathered by Jerry and distributed to all users.

(6) Cirpol generation -- distributed NUL cirpols, showing how to use "equate" statements to reduce the size of the tables. FCLA complained about the need to have a cirpol entry for every service unit that services every other service unit for each location. J. Aagaard is working on collapsing the cirpols.

(7) Provisional fields -- if someone is only authorized to enter and edit provisional (9xx) fields, and he mistakenly enters a field he can't do, the system flags the field as an error but won't let him correct it.

(8) Check digits -- Release 4.3 provides additional check digit routines. Maximum is 64 different routines.

(9) x-code -- when a name starts with a number, leave the label blank, and put an x-code at the end.

(10) SCTY code -- can use numbers 0-9 and letters A-Z; don't know if other symbols valid.

D. Programs for Programmers -- Jerry Specht

(1) Implementing NOTIS 4.3 (to be shipped in 2-3 weeks)

A handout describing the features which will be implemented with NOTIS 4.3 was reviewed. Many fixes will be made to circ, making it obvious that WSUL should not implement circ before installing 4.3.

Three pages of general instructions on how to install 4.3 were then discussed. We will have to reconcile our version of the NOTIS screens with 4.3. We will have to set up a patron charge index. Customized loaders using LBC90, like WSUL's will be, will not be able to run with the new MARC tag table, so the old one will have to be saved to use with the loader.

(2) Implementing Keyword and Boolean --

A lengthy handout describing how to calculate disk space required and listing an installation checklist was distributed and discussed.

The version to be released is in "Mentor 3", which is pseudo-conversational and requires less workspace. If an institution chooses to index everything in a bib record, including fixed fields, the indexes really take about two-third's the space of the bib record.

This is due with Release 4.4, in December 1986.

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(3) Planning for index redesign --

The consolidated index, called a dictionary index, combines the old author/title, subject/title, subject heading, and authority indexes. The online programs will include some new ones as well as revisions to old ones, with some changes to search codes. There will be no changes yet to NOTIS tables. Later, we will be able to identify locations in 105TBL that belong to a specific group or "catalog" for searching.

There are 5 steps to creating these new indexes in batch mode, requiring an enormous sort work area. For NUL's 810,000 bib and 350,000 authority records generating 4.5 million index entries, the sort workspace required was more than 570 MG. NUL is still working on the ability to update these indexes online.

It is possible that the first version will be available in Release 4.4, December 1986. Some additional disk space may be required.

(4) Implementing fund accounting --

Three additional files will be created: fund, invoice, and a transient data file. There will be 25 additional entries in the program control table. If a library has been using a previous version of the NOTIS acquisitions system, they will have to run a conversion of existing order and holdings files to the new version. NOTE: it is best not to put order/pay/receipt records in release 4.3 if you can wait for 4.4 in December, 1986.

There will be no new batch products for acquisitions at this time.

III. July 11

A. Producing SAS Reports using NOTIS Data -- Ned Taaffe

Ned distributed a complex handout with code he used to create a datafile in SAS for NUL's circ history. The datafile can then be used to create reports as desired.

A SAS library may be included in Release 4.4 for circ history file creation.

B. MVS Programmers Discussion Group -- Ned Taaffe

(1) Old LC100 to New LC100 conversion -- a handout showing the steps needed to convert to the new LC100 program which controls all the other tables was distributed. We already have this new program and have yet to complete this conversion.

(2) New Installation and Operations Manual -- a draft of the table of contents for the new, revised installation and operations manual was distributed.

(3) Long Beach Public is the first MVS site to go into production with circulation. They wrote their own COBOL program for customized overdue notices. There were many batch problems, which required modifications to JCL. Cannot process journals for history file. NOTIS brought them some fixes that will be issued in 4.3, but they are still fixing batch programs 610 series and LB010 with journal 3.

Des Moines P.L. is running 4.3 as a beta site.

(4) With Release 4.4, there will be new table assemblies. Instead of LC100, there will be six assemblies, one for each "logical" unit, e.g., location, security. This will involve renaming tables and putting in proper copy statements. There will be a linkedit step using LCT100.

(5) CICS version 1.7 -- IBM is fixing before NOTIS will install. Seems like IBM is moving from macro to command level in CICS.

(6) Who is running MVS/XA? BellCore, also U Wisconsin. FCLA wants to.

(7) MVS distribution -- MVS is "teetering" on the edge of being in sync with VSE version of NOTIS. There is still some delay because of the additional testing required. NOTIS staff is working on identifying changes in an automated way, rather than relying on each system engineer's memory.

C. Telex 476L Troubleshooting -- Flo Wilson, Vanderbilt

(1) Flo described Vanderbilt's experiences trying to get Telex 476L's to work. Found that identifying each terminal as an individual control unit works best during installation, but changing them to a single control unit with separate terminals improved response time once they were installed.

(2) Two suggestions were made to help with our printing problem on the Telexes: 1. make sure Network Control remembers to "bring up" the printers as well as the terminals; 2. try setting up the terminals on a chain as individual control units.

(3) When configuring as a single control unit with separate terminals, the MCA address must number the terminals sequentially and not overlook one number in the sequence.

(4) Some libraries experiencing problems with coax may be using a lower quality. RD62au is best.

(5) U Pittsburgh is using multi-drop phone lines with Telexes.

(6) The Library of Michigan seems to be the only one with a Black Box working between a 476L and an OCLC M300. Stephanie said I could contact her if we can't get the cabling to work.

(7) The U of Cincinnati does its own Telex maintenance. They hired their Telex serviceman.

(8) Public 476L's -- Vanderbilt passworded LUIS because it was so easy to get into Test mode on the Telexes and change the configuration.

Louise Bugg
July 14, 1986

Summary of NOTIS Enhancements Ballot Results

July 9, 1986

This list will begin with the top 23 enhancements on the 41 ballots received by NOTIS as of July 2. The first three were identified as "heavy favorites".

Ballot Ranking	Description of Enhancement	WSUL Vote	NOTIS Rank
1	Index redesign, incl. addtl items	3	1
2	Suppress LUIS display of a bib rec	3	none
3	Batch purge of patron records	2	6
4	Improve global changes	3	12
5	Simplify recall/hold, PF key(s)	3	C
6	Normalize au or ti searches	2	13
7	Block renewal if hold exists	2	7
8	Index call nos on-line, esp. unlkd	3	8
9	Implement MARC holdings format	3	2
10	On-line shelf-listing capability	3	D
11	Cross-references for vendors	3	none
12	PC backup for circ charge/dischge	3	11
13	Accept machine-read. vendor invcs	2	10
14	Not see two ident. index entries	3	none
15	"Derive" fcn for author. recds	1	none
16	On-line mass renewal ability	3	none
17	Go from staff display to LUIS dspl	2	none
18	Lists of new acquisitions	2	none
19	Block for too many overdues	1	none
20	Easier to create linked item rcds	2	none
21	Improve handling analytics	2	none
22	Merge mult. bib and copy records	2	none
23	Implement NISO detailed holdings	3	2

Here are other items in the NOTIS development ranking that did not surface among the "top 23" on the ballot.

<u>Description of Enhancement</u>	<u>WSUL Vote</u>	<u>NOTIS Rank</u>
Provide links to other db's	none	3
Acq. curr. conv., year end	2	4
Generic PC transfer for bib rcds	none	5
Distributed batch printing	3	9
Self-service charging	none	14
Linked Systems Project	1	15
Stop listing, proximity, rotation	none	A
Serials routing slips, bind cntrl	2	B
Arch./Manus. control portions	none	E

NOTIS numeric rankings (nos. 1-15) are targeted for completion by the end of 1987. NOTIS alphabetic rankings (A-E) are to have the design work completed by the end of 1987.

Here follows information I learned during the meeting about other NOTIS enhancements WSUL/DALNET was especially interested in:

1. Non-print media and facilities booking

The University of Vermont is negotiating with AMMS, a company with whom we had contact over a year ago, to link their PC-based booking system to the NOTIS system. If the U. of Vermont finds this system worth pursuing, they will notify Jane Burke. I told them they could add WSUL/DALNET to the list of interested institutions. I plan to call our local rep of AMMS, too. A year ago, they were unwilling to consider linkage to NOTIS. Other institutions indicating interest include: Tulsa, Dallas Comm. Coll., Pittsburgh, and Indiana State.

2. Distributed printing capability

NASA has this on their development list for Fall 1986. They have two options to explore, which they have not yet done while they are concentrating on loading databases. One is to translate an in-house program from VSE to MVS (not a trivial task, they say). The other is to find and test a software package for MVS, which we have done somewhat

already for the VPS package. I promised to send them info regarding our evaluation. In either case, the NOTIS software would also need to be modified to sort the batch printing into the needed distributable print files.

Two other sites with needs similar to ours for distributed printing are U of Wisconsin and U of Minnesota. FCLA has figured out how to distribute printing by institution group using Syncsort.

3. Circ off-line backup capability

Indiana State Univ. has completed development and is currently testing a portable barcode collection device that can be used for both off-line collection of circ charges and of inventory data. Using an Intermec 9420 portable barcode collection device, with 64K to hold up to 12,000 transactions, and a laser gun, they can collect circ charges off-line. The device is then connected to the serial port of a 476L, or an IBM pc with 3278 emulation, via special cable and connectors to upload the transactions. The process is not automatic and requires a student present to hit the enter key and do the necessary overrides as the transactions are processed by NOTIS. The Intermec 9420 costs about \$2,000. The programs written for it in its own language are going to be made available to NOTIS for distribution to other users. A student did the programming and another student is writing the three-page manual for circ staff.

Another NOTIS user developed a similar capability using a cheaper device, but I didn't get the name of the institution. Even though Indiana is a VSE site, since their programs are in the device itself, the system should also work at an MVS site.

4. New/dropped Name Headings List

This capability is now being tested at Vanderbilt, a VSE site. I told John Barron, and followed up in writing, that WSUL was anxious to have this list in order to reduce the name authority checking now necessary in NOTIS. He said there was no expected date of availability to MVS users.

5. Shelf-list card printing

Auburn University, an MVS site, has developed an IBMpc-based method to download the shelf-list card printfile for printing in the catalog department. Their programmer developed this very recently, since the card production programs were just distributed to MVS sites in June. I am sending her a diskette on which she promised to put her programs for us to test at WSUL. Her catalogers were most anxious to stop editing OCLC to produce shelf-list cards. We do not plan to stop editing OCLC immediately, in case we have problems stabilizing the online catalog.

6. Spine label printing

The spine label printing program to arrive in December with Release 4.4 is now being tested at NUL. They are using an IBM Quietwriter 2 attached to an IBM 3274 or 3174 controller via an Interlynx 3287 protocol converter. It has not yet been developed for attachment via an IBM 7171 controller.

The program gets the label display from the item record, including the call number, enum/chron data, and the location in the NOTIS input (i.e., 4,4) form. It is a fast process done by scanning the item ID and using a PFkey for the command LABL. The operator can edit the label before printing. The label is not printed by a screen copy, as on OCLC, but rather via direct instructions to the printer from the cpu. That is why the printer cannot be attached to the terminal, but must be separately attached to the controller, as for circ receipt printing.

The label uses a Gaylord Selin mechanism attached to the platen of the printer. The labels are call number portion only, with no author/title portion like the OCLC label format has.

Ruth Blake of Tulsa said she would be happy to send us her label program, too, which is written for a VSE site. It runs much like a screen print of an OCLC formatted label, with both call number and author/title portions. I told her I didn't think we would be needing her program, since the NOTIS program would be coming so soon.

7. M300 to function as both OCLC and NOTIS terminal

What is being developed by NOTIS is called a GTO, which stands for Generic Transfer and Overlay, beginning first with the RLIN interface. It requires a dedicated IBMpc/xt with 20 MB hard disk. It may require an AT.

The idea on the drawing boards is to have one XT or AT into which bib records can be loaded from multiple sources at once, including OCLC, RLIN, and various optical disk sources, e.g., Bibliofile. NOTIS wants to know which optical disk sources we are planning to use.

The micro will upload the records, telling the NOTIS system which loader program to use for each record.

NOTE: the OCLC Oxford Project will significantly change the format of the OCLC records, which will require modifications to our now operational OCLC interface.

8. Using IBM 7171 with ASCII terminals

Kay Flowers of Rice described to me their use of the IBM 7171 "front end" with ASCII terminals. The 7171 comes with 8 built-in tables to do protocol conversion for 8 standard ASCII terminals, including ADM3A, VT100, IBM 3161. Rice has added many more.

The 7171 can be used for dial-in users. It responds with a choice of terminal types for the user to select from. Indiana State is also using it this way.

One caution: the 7171 needs a "block" multiplexor channel on the CPU, which is the one used by a tape drive. Since we do not have a tape drive connected directly to our IBM 4381 cpu, we should not need an additional "block" channel in order to attach a 7171.

9. I & R files using NOTIS

Ruth Blake of Tulsa City/County Library told me they had created an I & R file in their NOTIS system, using a separate institution group, bib file and indexes. The data is entered using the MARC books format with a small number of fields. They are trying to use LCSH. Two online catalog terminals in their I & R area are logged into this database. Staff can help patrons transfer to the LUIS database, if desired.

Louise Bugg
July 14, 1986

Northwestern University Library
NOTIS Office
July 8, 1986

NOTIS ONLINE FUND ACCOUNTING AND INVOICE PROCESSING

The programs which provide online fund accounting and invoice processing, heretofore called the Harvard Enhancements, are now in test at Vanderbilt University. The programs will be released in several phases. The following is a list of the features and the phases.

PHASE I:

1. Multi-year fund record
2. Invoice record
3. Revised order/pay/receipt record
4. Online fund accounting
5. Invoice processing
6. De-commit and re-commit
7. Discount calculation
8. Current batch products

PHASE II:

1. Currency conversion
2. Index access to fund, order/pay/receipt record, and invoice records
3. Revised LUIS messages
4. Revised vendor record
5. Purge programs for fund and invoice records
6. Order session templating
7. New/revised batch products

LTF DONE

AAA0079

NOTIS ACQUISITIONS L8AV

TF BOOK

Strong, Josiah, 1847-1916.

The twentieth century city. — New York : Arno Press, 1970.

PO#: 001AAA0079 04/14/86 ORDUNIT: 01 RECUNIT: 01 SCOPE: 1
VENDOR: BST ACTINT: 0090 POP: L1: L2:
VA:

NV:

NO:

SOURCE:

DIV 001 CCN 002 NOTE:

REF: CUF 17232

001 AN

FC: HIST

ES:

CUR: usd AMT:

23.95 E#: 01 MD 04/14/86 AD
23.95 C#: 01 XPM: a L3/4:

MED: PCS:

LITF DONE

AAA0079

NOTIS ACQUISITIONS L8AV

TF BOOK

Strong, Josiah, 1847-1916.

The twentieth century city. -- New York : Arno Press, 1970.

PO#: 001AAA0079 04/14/86 ORDUNIT: 01 RECUNIT: 01 SCOPE: 1
VENDOR: BET ACTINT: 0090 POP: L1: L2:
VA:

NV:

NO:

SOURCE:

REF: CUF 17232

DIV 001 CCN 002 NOTE:

MED: PCS:

001 BN ES: 23.95 E#: 01 MD 04/14/86 AD
FC: HIST CUR: usd AMT: 23.95 C#: 01 XPM: a L3/4:
002 P PT: 0 I#: 4327463 MD 06/06/86 INV 60606a033
FC: HIST XC: 0011 AMT: 50.00 usd C#: 01 SPD: 50.00

LTF DONE

FUND CODE: HIST
STATUS: A GP: 0023
FY: 86/87 07/01/86 - 06/31/87
NET ALLOCATION 1500.00

NOTIS FUND RECORD
FUND NAME: history dept
OFFICIAL ID: 08-4400
BUDGET ID: 5948-29438472
EXPENDITURES, YEAR TO DATE: 150.00

CLASS	EXPENDITURES	% OF TOTAL EXPENDITURES
0011	15.50	10.34%
0023	35.20	23.35%
0056	15.00	10.00%
0057	46.45	30.97%
0058	28.50	19.00%
0066	9.35	6.23%

TF DONE

INV: 60421A004 VENDOR: YANKEE
INV AMT: 350.00 CUR: usd DISC%:
PMT AMT: 67.45 NET & PMTS:
NOTE: internal note

NOTIS INVOICE RECORD L8A8
INV NO: 46545A-651 INV DT: 04/05/86
2.00 VFRM: APPR: AD: 04/2
52.23 MD: 08/01/86

OFFICIAL VENDOR ID:
VN: voucher note
NAME:
ADDRESS:

COUNTRY:

001 P
FC: HIST XC: 0035 AMT:
002 P
FC: HIST XC: 0035 AMT:

PT: 0 MD: 05/09/86 NO#: 001AAA0085
35.50 #C: 01 SPD: 28.95
PT: 0 MD: 05/13/86 NO#: 001AAA0082
42.50 #C: 01 SPD: 38.95

LUIS: LIBRARY USER INFORMATION SERVICE

TH1N

LUIS can be used to find BIBLIOGRAPHIC information, LOCATIONS, and CALL NUMBERS for materials held by Northwestern University Libraries and by the Barrett-Seabury Library. Use the card catalog for materials not in the LUIS database. CIRCULATION information is available for titles in the LUIS database which are located in the main (except Transportation), Music, and Science Engineering Libraries. Please inquire at a service desk for circulation status of other materials.

SEARCH options:	COMMAND:
To search by TITLE:	t
AUTHOR:	a
SUBJECT:	s
KEYWORD:	k

USERS FAMILIAR WITH LUIS MAY ENTER A SEARCH REQUEST ON THIS SCREEN.

FOR LIBRARY SYSTEM NEWS, type NEWS.

TO CORRECT A MISTAKE, type over the error or clear screen to start over.

TYPE COMMAND AND PRESS ENTER==>

TO SEARCH BY KEYWORD:

KEYWORD searches allow a single term (e.g. word, name) or a combination of terms to be used for searching the online catalog. They are useful when you are unsure about the order of words in a title, have incomplete information about an item, or when a subject heading is not known or does not retrieve enough entries.

Since KEYWORD SEARCHES look for a term or phrase anywhere in bibliographic records, this method may locate items not found through LUIS author, title or subject searches. It also allows linking of terms from different parts of a record such as an author's name with a word from a book title.

EXAMPLES: k=microcomputer not software
k=(drunk adj driving) and legislation.su.

TO LEARN MORE ABOUT KEYWORD SEARCHING, TYPE m.

NOTE: Short keyword searches (up to 48 characters) may be entered on any LUIS screen; longer ones (up to 218 characters) must be entered on this screen. TYPE e TO START OVER.

TYPE COMMAND AND PRESS ENTER==>

3

HELP FOR SEARCH BY KEYWORD:

USING LOGICAL OPERATORS

SEARCHES may be refined with the use of Logical Operators. These PERATORS are used between the various TERMS (words) to specify the positional relationship of the terms within a single document. Below are the valid operators for KEYWORD searching and their meanings (where X and Y are search TERMS):

OPERATOR	MEANING
AND	Both term X and term Y must occur in the same document.
OR	Either term X or term Y must occur in the same document.
NOT	Term X occurs in the document but Y does not.
ADJ	Term X must come immediately before term Y (ADJACENT).

You may use keyword searching to enter a search on a single term which allows you to find all the occurrences of your term in the fields indexed, such as title, (.ti.), author, (.au.), and subject (.su.). TYPE m TO CONTINUE, type e TO START OVER.

TYPE COMMAND AND PRESS ENTER==>

4

HELP FOR SEARCH BY KEYWORD:

For example: k=industry

You may refine your search further by asking that your word be found only in a particular field.

For example: k=industry.ti. which will find all documents with the word industry in the title fields.

NOTE: When using keyword searching, do not search on such common terms as a, an, but, and as. These are called STOPWORDS, and have been purposely left out of the keyword indexes.

For more information about stopwords, ask a librarian for assistance.

You may enter a search from this screen. TYPE e TO START OVER.

TYPE COMMAND AND PRESS ENTER==>

5

LUIS SEARCH REQUEST: K=PSYCHOLOGY

KEYWORD SEARCH INDEX -- 100 ENTRIES FOUND, 19 - 36 DISPLAYED

- 19. XP:Measurement and evaluation in psychology a *Thorndike, Robert La <1961
- 20. XP:Inside the criminal mind *Samenow, Stanton E <1984
- 21. XP:The conceptual framework of psychology *Brunswik, Egon <1952
- 22. XP:The varieties of religious experience *James, William <1963
- 23. XP:Locus of control *Lefcourt, Herbert M <1982
- 24. XP:Piaget's theory of intellectual developmen *Ginsburg, Herbert <1969
- 25. XP:Counseling women *Collier, Helen V <1982
- 26. XP:Implementing family-centered maternity care with a *Haire, Doris <1968
- 27. XP:On the development of developmental psychology <1983
- 28. XP:Essays in psychology *James, William <1983
- 29. XP:Imagery, concepts, results, and applicatio *American Association <1981
- 30. XP:Imagery, theoretical and clinical applicat *American Association <1983
- 31. XP:A behavioral approach to historical analys *Berkhofer, Robert F <1969
- 32. XP:In the shadow of the past <1984
- 33. XP:A theory of adaptive economic behavior *Cross, John G <1983
- 34. XP:Personal being *Harre, Romano <1984
- 35. XP:The psychology of reading and spelling disabilities *Jorm, A. F <1983
- 36. XP:Ego psychology and social work practice *Goldstein, Eda G <1984

TYPE m FOR MORE ENTRIES. TYPE LINE NO. FOR BIBLIOGRAPHIC RECORD WITH CALL NO.
 TYPE e TO START OVER. TYPE h FOR HELP.
 TYPE COMMAND AND PRESS ENTER

6

LUIS SEARCH REQUEST: K=PSYCHOLOGY COMPUTERS

KEYWORD SEARCH INDEX -- 3 ENTRIES FOUND, 1 - 3 DISPLAYED

- 1. XP:The psychology of human-computer interaction *Card, Stuart K <1983
- 2. XP:Behavior research methods and instrumentation <Madison, Wis
- 3. XP:Information technology and psychology, pro *Houston Symposium <1982

TYPE LINE NO. FOR BIBLIOGRAPHIC RECORD WITH CALL NO.
 TYPE e TO START OVER. TYPE h FOR HELP.
 TYPE COMMAND AND PRESS ENTER

1/

LUIS SEARCH REQUEST: K=PSYCHOLOGY COMPUTERS
BIBLIOGRAPHIC RECORD -- NO. 2 OF 3 ENTRIES FOUND

Behavior research methods and instrumentation. v. 1-15; Sept. 1968-Dec. 1983.
Madison, Wis., Psychonomic Journals.
Bimonthly.
Continued by: Behavior research methods, instruments, & computers. ISSN 0743-3808

SUBJECT HEADINGS (Library of Congress; use s=):
Psychology, Physiological--Periodicals.

LOCATION: MAIN

CALL NUMBER: L150.5 B417

VOLUMES: 1-15(1968,sept-1983)

CIRCULATION STATUS: Circulation information not available in LUIS

TYPE m FOR NEXT RECORD.

TYPE i TO RETURN TO INDEX. TYPE e TO START OVER. TYPE h FOR HELP.

TYPE COMMAND AND PRESS ENTER

LUIS SEARCH REQUEST: K=ACID ADJ RAIN
KEYWORD SEARCH INDEX -- 7 ENTRIES FOUND, 1 - 7 DISPLAYED

1. XP:Acid rain *Environmental Resources Limited <1983
2. XP:Troubled skies, troubled waters *Luoma, Jon R <1984
3. XP:Acid rain *Harrell, Karen Fair <1983
4. XP:Acid rain *Ellis, M. Fred <1984
5. XP:Time lost *Canada <1984
6. XP:Acid rain *Elsworth, Steve <1984
7. XP:Acid rain control <1985

TYPE LINE NO. FOR BIBLIOGRAPHIC RECORD WITH CALL NO.

TYPE e TO START OVER. TYPE h FOR HELP.

TYPE COMMAND AND PRESS ENTER

(9)
LUIS SEARCH REQUEST: K=PSYCHOANALYSIS.SU. NOT FREUD

KEYWORD SEARCH INDEX -- 72 ENTRIES FOUND, 1 - 18 DISPLAYED

1. XP:Le celeste et le sublunaire *Viderman, Serge <1977
2. XP:Neurosis and human growth *Horney, Karen <1950
3. XP:La plume sur le divan *Tytell, Pamela <1982
4. XP:Of love and lust *Reik, Theodor <1957
5. XP:Interpreting Lacan <1983
6. XP:L'autre moi *Chabot, Jacques <1983
7. XP:Insight and responsibility *Erikson, Erik H <1964
8. XP:An outline of psychoanalysis *Thompson, Clara Mabel <1955
9. XP:La bataille de cent ans *Roudinesco, Elisabeth <1982
10. XP:les debuts de la psychanalyse en France, 1 *Mordier, Jean-Pierre <1981
11. XP:Our adult world, and other essays *Klein, Melanie <1963
12. XP:Le corps d'amour *Brown, Norman Oliver <1968
13. XP:La subversion de l'ame *Cazenave, Michel <1981
14. XP:Le sacre du pere *Pelckmans, Paul <1983
15. XP:Shakespeare's reparative comedies *Westlund, Joseph <1984
16. XP:Hypothesis and evidence in psychoanalysis *Edelson, Marshall <1984
17. XP:The technique of psychoanalytic psychother *Langs, Robert J <1983
18. XP:The healing of the mind *Fine, Reuben <1982

TYPE m FOR MORE ENTRIES. TYPE LINE NO. FOR BIBLIOGRAPHIC RECORD WITH CALL NO.
TYPE e TO START OVER. TYPE h FOR HELP.
TYPE COMMAND AND PRESS ENTER

(10)
LUIS SEARCH REQUEST: K=(ADOLESCENS\$ OR TEENAG\$).TI,SU. AND DRUGS

KEYWORD SEARCH INDEX -- 2 ENTRIES FOUND, 1 - 2 DISPLAYED

1. XP:Drugs, drinking, and adolescents *Macdonald, Donald Ian <1984
2. XP:Preventing adolescent drug abuse <1983

TYPE LINE NO. FOR BIBLIOGRAPHIC RECORD WITH CALL NO.
TYPE e TO START OVER. TYPE h FOR HELP.
TYPE COMMAND AND PRESS ENTER

11
LUIS SEARCH REQUEST: K=MARKETING AND \$ATION.TI.

KEYWORD SEARCH INDEX -- 3 ENTRIES FOUND, 1 - 3 DISPLAYED

1. XP:Highways as factor in small manufacturing plant location decisio <1961
2. XP:Application of the marketing concept to intermodalism <1984
3. XP:Broadening the concept of marketing <1972

TYPE LINE NO. FOR BIBLIOGRAPHIC RECORD WITH CALL NO.

TYPE e TO START OVER. TYPE h FOR HELP.

TYPE COMMAND AND PRESS ENTER

12
LUIS SEARCH REQUEST: K=COMPUTERS.TI. AND (CONFER\$ OR PROCEED\$) AND 1984
BIBLIOGRAPHIC RECORD -- NO. 1 OF 1 ENTRIES FOUND

Reading on Cognitive ergonomics--mind and computers : Proceedings of the 2nd European conference, Gmunden, Austria, September 10-14, 1984 / edited by G.C. van der Veer ... <et al.>. -- Berlin ; New York : Springer-Verlag, 1984. 267 p. : ill. ; 24 cm. -- (Lecture notes in computer science ; 178)

Contains papers to be presented at the European Conference on Cognitive Ergonomics--Mind and Computers, held in Gmunden, Austria, Sept. 1984; and sponsored by IFIP WG. 6.3.

SUBJECT HEADINGS (Library of Congress; use s=):

Electronic digital computers--Psychology--Congresses.

Interactive computer systems--Congresses.

System design--Congresses.

LOCATION: SCIENCE ENGINEERING

CALL NUMBER: 001.64019 R287

CIRCULATION STATUS: Not charged out. If not on shelf, ask at Circulation Desk

TYPE e TO START OVER. TYPE h FOR HELP.

TYPE COMMAND AND PRESS ENTER