

DEPARTMENT OF HEALTH AND HUMAN SERVICES
NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE
Bethesda, Maryland

A G E N D A

75th Meeting of the

BOARD OF REGENTS

9:00 a.m., January 26-27, 1984

BOARD ROOM
Mezzanine of
National Library of Medicine

MEETING OPEN: All day on January 26 and from 10:00 a.m. to adjournment on January 27.
MEETING CLOSED: From 9:00 to 10:00 a.m. on January 27 for the review of grant applications.

- I. CALL TO ORDER AND INTRODUCTORY REMARKS Dr. William D. Mayer
- II. REMARKS BY THE ASSISTANT SECRETARY FOR HEALTH Dr. Edward N. Brandt, Jr.
- III. REMARKS BY THE DEPUTY DIRECTOR, NIH Dr. Thomas E. Malone
- IV. CONSIDERATION OF OCTOBER MINUTES TAB I
(Agenda Book) Dr. William D. Mayer
- V. DATES OF FUTURE MEETINGS
- Spring Meeting: May 24-25, 1984 (Th-F)--CONFIRMED
Fall Meeting: Oct. 18-19 OR Oct. 25-26, 1984--PROPOSED
Winter Meeting: Jan. 24-25 OR Jan. 31-Feb. 1, 1985--PROPOSED
- PLEASE NOTE: Assoc. of Research Libraries - Semi-annual Mtg.
October 24-25, 1984 - Washington, D.C.
American Library Assoc. - Midwinter Meeting
February 2-8, 1985 - Washington, D.C.
Society of Thoracic Surgeons - Annual Meeting
January 20-23, 1985 - Phoenix, AZ
- COFFEE BREAK
- VI. REPORT OF THE ACTING DIRECTOR, NLM TAB II Dr. Harold M. Schoolman
Discussion Board Members

VII.	LEGISLATIVE UPDATE Discussion	<u>TAB III</u>	Mr. Robert Lee Chartrand Board Members
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LUNCHEON CATERED IN CONFERENCE ROOM B	12:00-1:00
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VIII.	DEPARTMENT STUDY OF NLM Discussion	<u>TAB IV</u>	Mr. Wallace O. Keene Dr. Harold M. Schoolman Board Members
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COFFEE BREAK

IX.	REPORT ON BIBLIOGRAPHIC SERVICES DIVISION Discussion	<u>TAB V</u>	Mr. Sheldon Kotzin Dr. Gwendolyn S. Cruzat, Discussant Board Members
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X.	APPOINTMENT OF NOMINATING COMMITTEE		Dr. William D. Mayer
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R E C E S S * * * * *

3:55 p.m. -Leave by buses for Library of Congress from Main Entrance of Lister Hill Center Building

5:00 p.m. -WELCOME by Mr. William Welsh, Deputy Librarian of Congress, Mumford Room, James Madison Memorial Building

5:15 p.m. -PROGRAM ON OPTICAL DISC TECHNOLOGY AT THE LIBRARY OF CONGRESS by Mr. Joseph Price, Chief of Science & Technology Division

6:15 p.m. -COCKTAILS in Dining Room A, Sixth Floor, Madison Building

6:45 p.m. -DINNER in Buffet Dining Room, Sixth Floor, Madison Building

8:00 p.m. -PROGRAM ON PRESERVATION ACTIVITIES AT THE LIBRARY OF CONGRESS in the Mumford Room, Madison Building, by Dr. Peter Sparks, Director for Preservation

9:00 p.m. -Return to NLM Lister Hill Center Building via buses.

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R E C O N V E N E: Friday, January 27, 9:00 a.m., Board Room.

MEETING CLOSED FOR THE REVIEW OF GRANT APPLICATIONS, 9:00 to 10:00 A.M., JANUARY 27

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| XI. | SPECIAL APPLICATIONS | (Gray Workbook) | |
| | A. Research | <u>TAB I</u> | Dr. Roger W. Dahlen |
| XII. | SUMMARY STATEMENTS | | |
| | A. Training | <u>TAB II</u> | Dr. Roger W. Dahlen |
| | B. Research | <u>TAB III</u> | " " " " |
| | C. Resource | <u>TAB IV</u> | " " " " |
| | D. Improvement | <u>TAB V</u> | " " " " |
| | E. Publication | <u>TAB VI</u> | Dr. Jeanne L. Brand |

MEETING OPEN FROM 10:00 A.M. TO ADJOURNMENT, JANUARY 27

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| | COFFEE BREAK | (Agenda Book) | |
| XIII. | GUIDELINES FOR LIBRARY AUTOMATION IN THE RESOURCE PROJECT GRANT PROGRAM | <u>TAB VI</u> | Mrs. Frances E. Johnson |
| | Discussion | | Board Members |
| XIV. | REPORT OF THE ACTING ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS | <u>TAB VII</u> | Dr. William G. Cooper
EP Subcommittee,
Discussants |
| | A. EP Budget and Funding Plans | <u>Tab A</u> | |
| | B. Report on "Integrated Academic Information Management Systems" (IAIMS) | <u>Tab B</u> | |
| | C. Reaffirmation of Board Operating Procedures | <u>Tab C</u> | |
| | Discussion | | Board Members |
| XV. | NEW BUSINESS | | Dr. William D. Mayer |
| XVI. | ADJOURNMENT | 12:00 | Dr. William D. Mayer |

DEPARTMENT OF HEALTH AND HUMAN SERVICES

NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE

BOARD OF REGENTS
MINUTES OF THE 75TH MEETING
JANUARY 26-27, 1984

BOARD ROOM
NATIONAL LIBRARY OF MEDICINE
BETHESDA, MARYLAND

DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE

THE BOARD OF REGENTS OF THE NATIONAL LIBRARY OF MEDICINE

Minutes of Meeting 1/ 2/
January 26-27, 1984

The Board of Regents of the National Library of Medicine was convened for its seventy-fifth meeting at 9:00 a.m. on Thursday, January 26, 1984, in the Board Room of the National Library of Medicine, Bethesda, Maryland. Dr. William D. Mayer, Chairman of the Board of Regents, and President of the Eastern Virginia Medical Authority, presided. In accordance with P.L. 92-463 and the Determination of the Director, NIH, and as announced in the Federal Register on December 27, 1983, the meeting was open to the public from 9:00 a.m. to 3:40 p.m. on January 26 and from 10:00 to 11:00 a.m. on January 27. The meeting was closed from 9:00 to 10:00 a.m. on January 27 for the review, discussion, and evaluation of grant applications. A Board roster is enclosed under Attachment "A."

Board members present were:

Dr. L. Thompson Bowles
Dr. Gwendolyn S. Cruzat
Dr. Lois E. DeBakey
Mrs. Shirley Echelman (January 26)
Dr. Albert E. Gunn
Dr. C. Everett Koop (Ex officio) (January 26)
Mr. John K. Lopez
Dr. William D. Mayer
Dr. David O. Moline
Dr. Charles E. Molnar
Vice Adm. Lewis H. Seaton (Ex officio) (January 26)

Alternates to ex officio members present were:

Dr. Faye G. Abdellah, representing Dr. C. Everett Koop.
Brig. General Vernon Chong, representing Lt. General Max B. Bralliar.
Col. James E. Hastings, representing Lt. General Bernhard Mittemeyer.
Mr. William J. Welsh, representing Dr. Daniel J. Boorstin.
Mr. James Hahn, representing Dr. Donald L. Custis.

Unable to attend:

Dr. Charles E. Edwards
Dr. Robert Rabin

1/For the record, it is noted that members absent themselves from the meeting when the Board is discussing applications from their respective institutions (interpreted to mean the entire system of which a member's institution is a part) or in which a conflict of interest might occur. Only when an application is under individual discussion will the Board member absent himself. This procedure does not apply to "en bloc" actions.

2/The Board of Regents, when considering the extramural programs of NLM, also constitutes and serves as the National Medical Libraries Assistance Advisory Board.

National Library of Medicine staff members attending this meeting included:

Dr. Harold M. Schoolman, Acting Director
Mr. Kent A. Smith, Deputy Director
Mr. John Anderson, Director, Information Systems, OD
Dr. Clifford A. Bachrach, Head, Medical Subject Headings, LO
Mr. Albert M. Berkowitz, Chief, Reference Services Division, LO
Dr. Jeanne Brand, Chief, International Programs Branch, EP
Mr. Arthur J. Broering, Deputy Associate Director for Extramural Programs
Mr. Kenneth Carney, Executive Officer, OD
Ms. Lois Ann Colaianni, Acting Associate Director for Library Operations
Dr. William G. Cooper, Associate Director for Planning and Acting Associate
Director for Extramural Programs
Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP
Dr. Richard B. Friedman, Director, Lister Hill National Center for Biomedical
Communications
Dr. Henry M. Kissman, Associate Director for Specialized Information Services
Mr. Sheldon Kotzin, Chief, Bibliographic Services Division, LO
Mr. Robert B. Mehnert, Chief, Office of Inquiries and Publications Management, OD
Mr. Stanley J. Phillips, Deputy Executive Officer, OD
Dr. Calvin Plimpton, Special Assistant for International Programs, OD
Mr. Arthur Robinson, EEO Coordinator
Mr. Mark J. Rotariu, Chief, Office of Financial Management, OD
Dr. Elliot R. Siegel, Special Assistant for Operations Research, OD
Mr. Richard T. West, Chief, Office of Program Planning and Evaluation, EP

Others present included:

Dr. Edward N. Brandt, Jr., Assistant Secretary for Health, HHS
Dr. Thomas E. Malone, Deputy Director, NIH
Ms. Selma Goldblatt, Sr. Analyst, Div. of Data Policy, Office of the
Assistant Secretary for Health, HHS
Mr. Robert L. Chartrand, Sr. Specialist in Policy & Technology,
Congressional Research Service, Library of Congress
Mr. Wallace O. Keene, Director, Office of Computer & Information Systems,
HHS
Mr. George Russell, Jr., Director, Office of Computer & Information
Systems, NIH

Members of the public present:

Mr. Greg Pearson, Reporter, "The Blue Sheet"
Mr. Thaddeus Plante, Legal Assistant, Kaye, Scholar, Fierman, Hays & Handler
Mr. Robert Willard, Vice President, Government Relations, Information
Industry Association

I. OPENING REMARKS

Dr. William D. Mayer, Chairman, welcomed the Regents, consultants, and guests to the 75th meeting of the Board of Regents. He introduced two new members: Albert E. Gunn, M.D., Medical Director of the Rehabilitation Center at the University of Texas/M.D. Anderson Hospital and Tumor Institute; and John K. Lopez, Executive Vice President of Medialelectrographic Instrumentation, Inc., Sunnyvale, California.

Dr. Mayer noted that the proposed letter was never sent to the HHS Secretary about the Board's concern over the many studies being done on NLM and the resultant drain on staff time and energies. He decided that because the HHS study of NLM was nearing completion it was advisable to hold off on sending such a letter. The study has been completed and the Regents now have an opportunity to respond formally to the Secretary. The Chairman also reported briefly on the activities of the Search Committee which has been considering applications for Director of NLM. A number of applications were received of which many could be screened out initially; seven or eight candidates are being interviewed, and by March 15 the Committee hopes to make a recommendation to the NIH Director.

II. REPORT OF THE ASSISTANT SECRETARY FOR HEALTH

Dr. Edward N. Brandt, Jr. commended Dr. Schoolman for the superb job he is doing as Acting Director of NLM. Dr. Brandt noted that the Board's agenda included discussion of the recently completed HHS study on the Library, and he was looking forward to the Board's response to the study. One of the critical recommendations of the study is that the Board of Regents should retain its authority to review NLM's pricing system. This should be the last study of NLM, he said.

Dr. Mayer noted that some of the Regents were concerned about proposed Health Care Financing Administration (HCFA) regulations that would no longer require hospitals to maintain medical libraries for their staff; an earlier version of the proposed regulations would have required hospitals to provide access to information services, but even this has now been deleted. Dr. Brandt commented that the goal of the revised regulations is to remove requirements, the need for which is not self-evident; some regulations, including those requiring libraries, were frequently ignored. What is important is that hospital staff have access to information sources, and education can help bring this about. Dr. Schoolman commented that the main value of a regulation requiring access to information is to alert the hospital administrators that this is important and to make it an institutional responsibility. Hospital libraries and information centers are welcomed by the medical staff but are too often neglected by the administrators.

III. REPORT OF THE DEPUTY DIRECTOR, NIH

Dr. Thomas Malone commented that the Board of Regents will play an increasingly critical role in the Library's mission, especially at a time when NLM is being challenged by the private sector on such matters

as its pricing policy. He noted that the recent annual planning session involving the NIH Director and NLM senior staff went very well; he complimented Dr. Schoolman on his leadership of the Library in an acting capacity. As Chairman of the Search Committee for a new NLM Director, Dr. Malone said that he was disappointed in the number of applicants for the position. He believes the reason is that the salary associated with the position cannot compete with salaries outside the Federal Government. Nevertheless, he said, there were a number of excellent applicants and a slate of candidates will be recommended to Dr. Wyngaarden in the near future.

Dr. Malone reported that NIH was treated fairly well by the Congress in 1984 with a 10% increase in the budget. Hearings are upcoming for the 1985 budget, and the fact that this is an election year may have some influence on their outcome. The study on the NIH organization being conducted by the Institute of Medicine is continuing. An interim report will be presented soon to the NIH Director at a closed meeting. Dr. Malone noted that there is pressure to create several new institutes--on arthritis and musculoskeletal diseases and on nursing. The administration's initiative known as "Reform 88" to streamline the Federal Government has resulted in a set of recommendations to NIH dealing with personnel matters; many other administrative areas will be covered in the future.

IV. CONSIDERATION OF MINUTES OF PREVIOUS MEETING

The Regents approved the minutes of the October 13-14, 1983, meeting without change.

V. DATES OF FUTURE MEETINGS

The Board will meet next on May 23 (Special Session), May 24, and May 25. The dates of October 18-19 were confirmed for the following meeting. The tentative dates of January 24-25, 1985, were selected for next winter's meeting.

VI. REPORT OF THE NLM ACTING DIRECTOR

Dr. Harold M. Schoolman introduced two new staff members: Dr. Calvin Plimpton, Special Assistant for International Programs, and Becky Lyon-Hartmann, Regional Medical Library Program Coordinator. He reviewed the FY 1984 appropriations' chronology--the operating level for this year is \$49,613,000. Although the proposed 1985 budget cannot be discussed, Dr. Schoolman briefly described NLM's report to the House Appropriations Committee that accompanies the 1985 budget request. This report, requested by the Committee last year, deals with the potential increase in revenues from charging "Market Prices" for NLM services to for-profit institutions. This increase to the U.S. Treasury is illusory, because companies would write off the additional expenses on their taxes and increase the costs of medical goods and services (of which the Federal Government itself is a heavy consumer). Dr. Schoolman expressed concern over efforts to reorganize the Department's personnel and

procurement functions. The Library (and others at NIH) is threatened with the loss of its authorities in these areas and, along with the other institutes, has vigorously expressed its concern to Dr. Malone.

The most critical political issue facing NLM at this time is the status of the Medical Library Assistance Act (MLAA). Three years ago the MLAA appropriation was cut from \$10 million to \$7.5 million. There has been no authorizing legislation since that time, and NLM has operated under continuing resolutions at the \$7.5 million level. Current legislation pending in both the House and the Senate would reauthorize the MLAA for three years at levels of about \$10, \$11, and \$12 million. The reauthorization at higher levels is particularly crucial to the funding of the Integrated Academic Information Management Systems (IAIMS) project and the continuation of support for medical informatics and training grants. Dr. Schoolman also brought to the attention of the Regents NLM's comments on proposed new policies from the Office of Management and Budget (OMB) on Federal information management and on proposed changes in the Joint Committee on Printing regulations governing Federal publishing. His last item of information dealt with the proposed MEDLARS subset policy, which will be published soon, and with the scheduling of a policy meeting of the directors of the foreign MEDLARS centers in Canberra, Australia, in October 1984.

VII. LEGISLATIVE UPDATE

Mr. Robert L. Chartrand of the Congressional Research Service, Library of Congress, discussed some of the changes over the last 20 years on Capitol Hill as the Congress has become more aware of the potential of information technology. The Congressional Research Service has been very active in bringing these changes about by orienting members of Congress and their staffs as to the new information systems available. The total expenditure in 1970 within the Congress for computers and telecommunications services was \$4.8 million; by 1982 this had risen to \$65 million. This reflects the growing realization on the part of Congress of the importance of information handling technology.

Mr. Chartrand described several categories of public laws that focus on information policy and technology. Today's Congressional policymakers tend to view information as a component of a wider issue. This may be seen by considering the broad rubrics of the categories: international communications and information policy (broadcasting, satellites, etc.); information disclosure and confidentiality (Freedom of Information and Privacy Acts); Federal information management (Paperwork Reduction Act, for example); information programs or clearinghouses (there are now 2 bills before the Congress to enhance the transfer of technical information to industry, business, and the general public); information dissemination (one aspect is the question of "free and equal" access to information); creating new information systems; and copyright.

One area of particular concern is whether there is the necessary infrastructure for scientific and technical information (STI) handling. One recent bill (introduced by Rep. George Brown) calls for the creation of an Institute for Information Policy and Research that would collect

data worldwide about STI programs and policies and make recommendations for improving STI availability throughout our society. Mr. Chartrand also touched on the Congress's interest in such matters as supercomputers, videotext, the role of information in serving the physically disabled and the elderly, and robotics. One problem is that the information field has lost many of its long-time mentors through attrition. It will be necessary to begin generating interest in the subject with a new group of people on Capitol Hill. There are many keen young legislators who need to be approached and educated about information concerns. Groups like the Board of Regents can play an important role in this.

VIII. DEPARTMENT STUDY OF NLM

Dr. Schoolman introduced Mr. Wallace O. Keene, Director of the HHS Office of Computer and Information Systems. Mr. Keene said that the study of NLM was just one part of a number of concurrent studies of Departmental activities undertaken at OMB's request under the Paperwork Reduction Act. The Department's Systems Review Board is charged with establishing management control over information activities within HHS and reviews major information activities selected by the Assistant Secretary for Management and Budget. Since 1979 the Board has reviewed 10 systems, NLM being one of these. There were two phases of the NLM study: first a review of the Library's "clearinghouse" activity and, second, a review of NLM's cost recovery policy. The first phase included an examination of NLM components engaged in information dissemination and an inventory of NLM's publishing activities. One finding from this part of the study, Mr. Keene reported, was that NLM's 13 publications sold through the Government Printing Office recovered 54% of all HHS user fees (total HHS publications: 1422).

The issue that formed the focus of phase two was to what degree the costs of providing NLM's services (including R&D costs) should be factored into the charges the Library assigns for providing biomedical information. Three criteria were considered: the impact on the private sector of NLM charges, the impact on public benefit, and the impact on Federal cost. Five options were identified that provide an incremental continuum from no charge to market-based pricing. Mr. Keene discussed each of the five options. The study discarded the extremes and recommended that NLM should base its charges on the costs of providing access to the information, and that a policy of differential pricing for different categories of online users should be considered. The report reaffirmed the Board's role in recommending pricing policy and recommended that the Regents should study differential pricing and report to the Assistant Secretary for Health within 120 days on the feasibility of such a pricing policy.

Following Mr. Keene's presentation, the Regents discussed the report's findings and recommendations. The Chairman asked that the Board's Subcommittee on Pricing, augmented by Dr. DeBakey, Mr. Lopez, and Mr. Welsh, consider the matter thoroughly and prepare a written report that could be circulated to all members well in advance of the May meeting. The matter will be considered by the full Board in May and a formal response prepared for the Assistant Secretary for Health.

IX. REPORT ON BIBLIOGRAPHIC SERVICES DIVISION

Sheldon Kotzin, Chief of NLM's Bibliographic Services Division (BSD), described the Division's function as building, coordinating, and maintaining the online databases. BSD is one of four divisions within the Library Operations component of NLM. It has a staff of 63 and two sections--Index Section and MEDLARS Management Section.

The Index Section has four major programs: indexing the journal literature for Index Medicus and other publications; quality control of the MEDLARS database contents; training indexers; and recommending new terms for the Library's thesaurus, MeSH (Medical Subject Headings). In fiscal year 1983, the Index Section oversaw the indexing of more than 293,000 articles from 3200 biomedical journals. Indexing is performed within BSD by 4 commercial contractors and by foreign MEDLARS centers. Mr. Kotzin described how articles are indexed and the priority classification assigned to different journals. The Division is responsible for producing 24 recurring bibliographies in addition to the Index Medicus. Index Medicus remains the Library's most important publication, however, with some 6000 subscribers worldwide. Recent improvements in processing have reduced the lag time between publication of an article and its appearance in MEDLARS. The processing time for the highest priority journals is now only 28 days. The current effort to develop online indexing promises to reduce the time required for indexing all journals. Mr. Kotzin briefly described the online indexing activity.

Once indexing is completed, it is the responsibility of the MEDLARS Management Section's staff to ensure that the references are available to NLM's users in printed and online form. This section coordinates the daily operation of MEDLARS, including answering inquiries about the various databases, training users of the system, maintaining liaison with the foreign centers, building and testing databases, and producing Index Medicus and the other publications. Mr. Kotzin cited some figures of current MEDLARS usage--2.4 million searches last year, 200,000 connect-hours to the computer, and a network of some 3000 user institutions around the world. Four new databases were put up in the network in 1983--three cancer-related files in cooperation with the National Cancer Institute and a directory of information resources in cooperation with the Library of Congress. Mr. Kotzin reviewed use figures for the approximately 20 online databases available over the NLM system. He noted that MEDLINE, in addition to being available from NLM, is also available from commercial vendors--DIALOG and BRS (Bibliographic Retrieval Services)--and through agreements with foreign institutions in 14 other countries. In the area of training, Mr. Kotzin said that NLM is beginning to provide end-user oriented training for individual health professionals.

Following Mr. Kotzin's presentation, Dr. Gwendolyn Cruzat complimented the Division on its accomplishments in developing online indexing and in reducing the time between publication of an article and its appearance in the database as a reference. She also noted that the increased emphasis on end-user training is much needed. Dr. Moline commented that

the user-friendly interface (known as CITE) to MEDLINE, now being tested, is remarkable. Dr. DeBakey said that MEDLINE is not nearly well enough known throughout the health community. NLM should publicize that it is now offering end-user training directly to health professionals.

X. APPOINTMENT OF NOMINATING COMMITTEE

Dr. Mayer appointed a committee to present nominations for next year's Board Chairman at the next meeting. Mr. Welsh (Chairman), Dr. Abdellah, and Col. Hastings were asked to serve.

MEETING CLOSED FOR THE REVIEW OF GRANT APPLICATIONS--9:00 to 10:00 A.M., January 2;

XI. REVIEW OF PENDING APPLICATIONS

Before proceeding with the consideration of pending applications, Dr. Roger W. Dahlen, Chief of the Biomedical Information Support Branch, EP, informed Board members of confidentiality and conflict-of-interest procedures and reminded them to sign, at the conclusion of the grant application review, the statement that they had not participated in the discussion of any application where conflicts of interest might occur.

The Board concurred with the recommendations of the Extramural Programs Subcommittee which met on January 25. A total of 65 applications was reviewed, of which 29 were recommended for approval and 30 for disapproval. Six applications were deferred. Grant applications recommended for approval by the Board are listed in the summary actions (Attachment B). Interim actions taken by Extramural Programs' staff since the October Board meeting were noted.

MEETING OPENED AT 10:00 A.M. AND REMAINED OPENED TO ADJOURNMENT AT 11:00 A.M.

XII. GUIDELINES FOR LIBRARY AUTOMATION UNDER THE RESOURCE PROJECT GRANT PROGRAM

Mrs. Frances Johnson, EP Program Officer, presented a new fact sheet, entitled "Computer-Based Information Systems," which will replace the outdated, more narrowly focused automation guidelines issued more than ten years ago. She noted that, although support has always been available for library automation, this grant activity has now taken on even greater importance because of the IAIMS initiative, for which funding will be available under the Resource Project Grant Program. The Computer-Based Information Systems award is intended to assist health sciences libraries to achieve the eligibility requirements for an IAIMS project. That is, to receive an IAIMS grant, a library must have reached the state of computerization where its bibliographic records are accessible to users through a local computer. The new fact sheet will provide guidance to both the applicants and the reviewers.

XIII. REPORT OF THE ACTING ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS

Dr. Cooper reviewed the FY 1984 budget for Extramural Programs and noted that total award amounts are on target for the FY 84 spending level of \$5.5 million. Approximately \$900,000 have been allocated for competing and noncompeting Training Grants, which limits the new Research Training Grant initiative to five awards for less than \$600,000. A total of \$525,000 has been set aside for IAIMS planning awards, and approximately \$2.0 million will support the seven regional medical libraries.

Dr. Cooper then summarized the IAIMS (Integrated Academic Information Management Systems) initiative and discussed the activities to date. The IAIMS concept, he explained, is the use of computer and communications technology to integrate operational and academic information at the institution into one network with top management support and participation from all the core elements of professional practice, research and education. The three phases of institutional commitment Dr. Cooper described as replacement, innovation, and transformation. In 1983 NLM awarded contracts for prototype IAIMS development to Columbia University, Georgetown University, the University of Maryland, and the University of Utah. The contracts drew heavily on specifications from the AAMC (Association of American Medical Colleges) report. Subsequently, an RFA (Request for Application) was issued to encourage innovative, institution-initiated approaches to the IAIMS planning phase. Awards for the grants initiative are expected to be made in July 1984, after the initial review of the applications by the Biomedical Library Review Committee in March and final review by the Board in May. In addition to these two elements, and as a result of a Congressional FY 1983 supplemental appropriation of \$5.9 million to NLM, contract support for an IAIMS at the Oregon Health Services University will be made, of which \$494,000 will be used for the initial planning phase. The \$5.9 million will remain separate from MLAA funds for the exclusive development of an IAIMS at that institution. There are three elements to the Oregon project--the planning for the development of an IAIMS, a network within the state of Oregon for health professionals, primarily physicians, and the development of an R&D facility in the form of a biomedical communications center.

Ms. Nina Matheson, NLM Expert Consultant for the IAIMS project, commented on the first quarter activities at IAIMS contractor institutions. She noted that all institutions are in the organizing stage. Committees are being formed and the IAIMS concept is beginning to crystallize. At Utah, heavy emphasis is given to educational activities. The library has given many courses to students, faculty, and community people. The impact in all institutions and the energy being applied is an impressive and exciting aspect. Ms. Matheson noted that interest in IAIMS is spreading to include broadly based higher education groups. Others are stimulating consideration of IAIMS concepts both in this country and abroad, including Canada and China. It is a measure of continuing interest that the AAMC Journal of Medical Education Supplement on which IAIMS is based has sold out the first printing of 2,000 copies and will be reprinted.

Board Operating Procedures

As required annually, Dr. Cooper presented for review the Board Operating Procedures--"Guidelines for Adjustments by Staff in Time or Amount of Grant Award." The Board reaffirmed the guidelines without change.

XIV. ADJOURNMENT

The meeting was adjourned at 11:00 a.m., Friday, January 27, 1984.

Wednesday, January 25, 1984, 2:00 to 3:30 p.m.
(EP Subcommittee--List of Attendees under Attachment C)

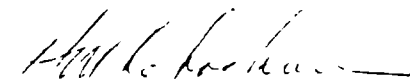
Wednesday, January 25, 1984, 2:00 to 4:30 p.m.
(Lister Hill Center Subcommittee--List of Attendees under Attachment D)

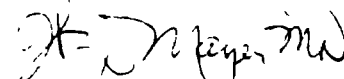
Thursday, January 26, 1984, 9:00 a.m. to 3:40 p.m.
Friday, January 27, 1984, 9:00 a.m. to 11:00 a.m.

ACTIONS TAKEN BY THE BOARD OF REGENTS

1. The Chairman asked the Board of Regents Subcommittee on Pricing, augmented by Dr. DeBakey, Mr. Lopez and Mr. Welsh, to study the recommendations made in the Department Study of NLM and prepare a written report for consideration by the full Board at the May meeting. A formal response will be made within the prescribed 120 days to the Assistant Secretary for Health.
2. The Chairman appointed a nominating committee for the selection of next year's Board Chairman, consisting of Mr. Welsh (Chairman), Dr. Abdellah and Col. Hastings.
3. The Board reaffirmed the Board Operating Procedures.
4. The Board concurred with recommendations of the Extramural Programs Subcommittee. Grant applications recommended for approval are listed in the summary actions (Attachment B).

I hereby certify that, to the best of my knowledge, the foregoing minutes and attachments are accurate and complete.

 5/17/84 ✓
Harold M. Schoolman, M.D. (Date)
Executive Secretary

 4/20/84
William D. Mayer, M.D. (Date)
Chairman

BOARD OF REGENTS OF THE NATIONAL LIBRARY OF MEDICINECHAIRMAN

MAYER, William D., M.D. (8/3/84)
 President
 Eastern Virginia Medical Authority
 P. O. Box 1980
 Norfolk, VA 23501 804-446-5201

BOWLES, L. Thompson, M.D., Ph.D. (8/3/86)
 Dean for Academic Affairs and
 Professor of Surgery
 The George Washington University
 Medical Center
 2300 I Street, N.W. #713
 Washington, DC 20037 202-676-3501

CRUZAT, Gwendolyn S., Ph.D. (8/3/84)
 Professor of Library Science
 School of Library Science
 The University of Michigan
 Ann Arbor, MI 48109 313-763-1471

DeBAKEY, Lois E., Ph.D. (8/3/86)
 Professor of Scientific Communications
 Baylor College of Medicine
 1200 Moursund Street
 Houston, TX 77030 713-790-3185

ECHELMAN, Shirley (8/3/85)
 Director
 Association of Research Libraries
 1527 New Hampshire Avenue, N.W.
 Washington, DC 20036 202-232-2466

EDWARDS, Charles C., M.D. (8/3/85)
 President
 Scripps Clinic and Research Foundation
 Keeney Park
 10666 N. Torrey Pines Road
 La Jolla, CA 92037 619-455-1187

GUNN, Albert E., M.D. (8/3/87)
 Medical Director
 Rehabilitation Center
 University of Texas/M. D. Anderson
 Hospital and Tumor Institute
 6723 Bertner Avenue
 Houston, TX 77030 713-792-3580 a.m.
 Or 713-792-4711 p.m.

LOPEZ, John K. (8/3/87)
 Executive Vice President
 Medicaelectrographic Instrumentation, Inc.
 924 Borregas Avenue
 Sunnyvale, CA 94089 408-744-0300
 (Mailing Address:
 Box 2312 - Stanford, CA 94305)

MOLINE, David O., D.D.S. (8/3/86)
 Asst. Professor of Dentistry
 Dept. of Hospital Dentistry
 University of Iowa
 Hospital and Clinics
 Iowa City, IA 52242 319-356-2743

MOLNAR, Charles E., Sc.D. (8/3/84)
 Director, Computer Systems Laboratory
 Washington University
 724 S. Euclid Avenue
 St. Louis, MO 63110 314-362-3126

EX OFFICIO MEMBERSPrimary

BOORSTIN, Daniel J., Litt.D.
 Librarian of Congress
 Library of Congress
 10 First Street, S.E.
 Washington, DC 20540 202-287-5205

Alternate

WELSH, William J.
 Deputy Librarian of Congress
 Library of Congress
 James Madison Memorial Bg., Room 608
 10 First Street, S.E.
 Washington, DC 20540 202-287-5215

Board of Regents Roster (continued)

Primary

BRALLIAR, Max B., Lt. Gen., USAF, MC
Surgeon General
Department of the Air Force
Bolling Air Force Base
Washington, DC 20332 202-767-4343

CUSTIS, Donald L., M.D. (10)
Chief Medical Director
Veterans Administration
Dept. of Medicine and Surgery
810 Vermont Avenue, N.W.
Washington, DC 20420 202-389-2596

KOOP, C. Everett, M.D.
Surgeon General, PHS, and
Deputy Assistant Secretary for Health
200 Independence Avenue, S.W.
Washington, DC 20201 202-245-6467

MITTEMEYER, Bernhard, Lt. Gen., MC, USA
The Surgeon General
Department of the Army
Washington, DC 20310 202-697-1295

RABIN, Robert, Ph.D.
Actg. Asst. Director for Biological,
Behavioral, and Social Sciences
National Science Foundation
1800 G Street, N.W., Room 506
Washington, DC 20550 202-357-9854

SEATON, Lewis H., Vice Adm., MC, USN
Surgeon General.
Office of the Chief of Naval
Operations (OP-093)
Department of the Navy
Washington, DC 20350 202-697-0587

Alternate

CHONG, Vernon, Brig. Gen., USAF, MC
Commander
Malcolm Grow Medical Center
Andrews Air Force Base, MD 20331
301-981-3001

HAHN, James M. (142)
Director
Continuing Education Resources Services
Veterans Administration
810 Vermont Avenue, N.W., Room 875D
Washington, DC 20420 202-389-2581

ABDELLAH, Faye G., Ed.D., Sc.D.
Deputy Surgeon General, and
Chief Nurse Officer, PHS
Parklawn Building, Room 18-67
5600 Fishers Lane
Rockville, MD 20857 301-443-4000

HASTINGS, James E., Col., MC, USA
Chief, Graduate Medical Education Branch
Education and Training Division
U.S. Army Medical Department
Personnel Support Agency
Washington, DC 20314 202-693-5455

HAGEN, Donald F., Capt., MC, USN
Director, Education and Training Div.
Office of the Chief of Naval
Operations (OP-939)
Department of the Navy
Washington, DC 20350 292-653-1685

EXECUTIVE SECRETARY

SCHOOLMAN, Harold M., M.D.
Acting Director
National Library of Medicine
Bethesda, MD 20209 301-496-4725

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE
 APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 PROG. CLASS: COUNCIL DATE: JAN./FEB. 1984

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 G08 LM03883-01A1	ROSS A MCFARLAND COLLECTION	01A1 76,403 02 77,418
1 G08 LM04170-01	ESTABLISHING A LEARNING RESOURCE CENTER	01 28,000 02 24,000
1 G08 LM04171-01	COORDINATION OF WASHINGTON HEALTH INFORMATION SERVICE	01 53,794 02 54,538 03 59,016

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM) COUNCIL DATE: JAN./FEB. 1984
 PROG. CLASS: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R01 LM04173-01	PREPARATION OF A BOOK: HUMAN BODY COMPOSITION	01 16,514
1 R01 LM04174-01	DUALS SECONDARY REVIEW: CA A CANCER RADIOTHERAPY EXPERT SYSTEM USING STIMULATION	01 62,653 02 67,035 03 72,700
1 R01 LM04177-01	INFORMATION RETRIEVAL BY SEMANTIC & PRAGMATIC RELEVANCE	01 22,577 02 16,906
1 R01 LM04183-01	DUALS SECONDARY REVIEW: AG A BIO-BIBLIOGRAPHY OF AGING TO 1900	01 11,375
1 R01 LM04187-01	BLACK PHYSICIANS: AN ANNOTATED BIBLIOGRAPHY	01 22,900 02 24,480
1 R01 LM04200-01	TRANSLATION OF SANSKRIT MEDICAL TEXT ASTANGA SAMGRAHA	01 5,727 02 6,205 03 6,936
1 R01 LM04273-01	PUBLIC, VOLUNTARY, AND FOR-PROFIT HOSPITALS IN THE U S	01 13,497 02 8,454

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 COUNCIL DATE: JAN./FEB. 1984
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE
 PROG. CLASS:

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 T15 LM07031-01	FELLOWSHIP IN MEDICAL DECISION/INFORMATION SCIENCES	01 64,472 02 118,052 03 119,627 04 121,282 05 123,017
1 T15 LM07033-01	POSTDOCTORAL TRAINING IN MEDICAL INFORMATION SCIENCES	01 79,059 02 164,458 03 195,255 04 228,488 05 236,458
1 T15 LM07034-01	HEALTH COMPUTER SCIENCES RESEARCH TRAINING	01 137,266 02 139,810 03 139,810 04 139,810 05 139,810
1 T15 LM07036-01	RESEARCH AND APPLICATIONS IN MEDICAL INFORMATICS	01 79,008 02 134,314 03 136,317 04 140,386 05 56,667
1 T15 LM07037-01	HEALTH COMPUTER SCIENCES RESEARCH TRAINING	01 147,078 02 154,859 03 158,214 04 159,886 05 168,627
1 T15 LM07039-01	TRAINING FOR ACADEMIC CAREERS IN HEALTH COMPUTER SCIENCE	01 106,792 02 111,918 03 117,291 04 122,226 05 127,397

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 PROG. CLASS: COUNCIL DATE: JAN./FEB. 1984
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 T15 LM07041-01	RESEARCH TRAINING IN MEDICAL INFORMATICS	01 118,980
		02 129,628
		03 141,341
		04 154,226
		05 168,398
1 T15 LM07044-01	PROGRAM FOR CLINICAL HEALTH INFORMATION SCIENCES	01 114,552
		02 121,664
		03 122,532
		04 130,442
		05 132,188
1 T15 LM07047-01	POSTDOCTORAL TRAINING IN MEDICAL INFORMATION SCIENCE	01 132,407
		02 130,773
		03 130,431
		04 134,525
		05 137,403

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 PROG. CLASS: COUNCIL DATE: JAN./FEB. 1984
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE
 APPLICATION NUMBER PROJECT TITLE AMOUNTS
 RECOMMENDED
 1 U50 LM04178-01 DUALS SECONDARY REVIEW: CA 01 129,999
 02 160,829
 03 142,450
 ENHANCING THE INFORMATION SYSTEM BIOETHICS

4

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 COUNCIL DATE: JAN./FEB. 1984
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE
 PROG. CLASS:

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 G07 LM04168-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,000
1 G07 LM04180-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 47,768
1 G07 LM04181-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 26,000
1 G07 LM04195-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 31,578
1 G07 LM04197-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT	01 4,000
1 G07 LM04198-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT	01 4,000
1 G07 LM04202-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 27,400
1 G07 LM04203-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 31,523

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

B O A R D O F R E G E N T S

EXTRAMURAL PROGRAMS SUBCOMMITTEE MEETING

January 25, 1984

A T T E N D E E S

Subcommittee Members Present:

Brig. Gen. Vernon Chong
Dr. Gwendolyn S. Cruzat
Dr. Lois E. DeBakey

Subcommittee Member Unable to Attend:

Dr. L. Thompson Bowles

NLM Staff Present:

Dr. William G. Cooper, Acting Associate Director, EP
Mr. Arthur J. Broering, Deputy Associate Director, EP
Mrs. Ruth Bortz, Grants Management Specialist, EP
Dr. Jeanne L. Brand, Chief, International Programs Branch, EP
Mr. Brian Campbell, Administrative/Grants Management Officer, EP
Mrs. Karin K. Colton, Committee Management Assistant, EP
Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP
Mrs. Rose Marie Holston, Program Analyst, EP
Mrs. Frances E. Johnson, Program Officer, EP
Mrs. M. Kathleen Nichols, Grants Management Specialist, EP
Mr. Richard T. West, Chief, Office of Program Planning and Evaluation, EP
Mr. Randall Worthington, Program Officer, EP

B O A R D O F R E G E N T S

L I S T E R H I L L C E N T E R S U B C O M M I T T E E

January 25, 1984

A T T E N D E E S

Subcommittee Members Present:

Dr. David O. Moline
Dr. Charles E. Molnar

Subcommittee Members Unable to Attend:

Dr. Faye G. Abdellah
Dr. Charles C. Edwards

NLM Staff Present:

Dr. Richard B. Friedman, Director, Lister Hill National Center for Biomedical
Communications
Mr. Charles M. Goldstein, Information Technology Branch, LHNCBC
Mr. Charles E. Herbert, Assistant Director for Program Planning and
Coordination, LHNCBC

National Library of Medicine Board of Regents
Lister Hill Center Subcommittee
Minutes of Meeting
January 25, 1984
2:00 - 4:30 p.m.

Present: Members of the Lister Hill Center Subcommittee,
Dr. Molnar, Dr. Moline

NLM Staff: Dr. Friedman, Mr. Goldstein, Mr. Herbert

In the absence of Dr. Edwards, Dr. Molnar chaired the meeting. The topic of the meeting was a preliminary discussion of the goals and objectives of the Lister Hill Center. Dr. Molnar noted the usefulness of the material provided the subcommittee by Dr. Friedman. Both he and Dr. Moline were impressed by the breadth of mission and the wide scope of the goals outlined in the Stead Report which had been provided.

The meeting was devoted to discussing possible issues relating to five major questions identified by Dr. Molnar.

- (1) Is the mission statement a realistic and appropriate one?
- (2) How can the Board of Regents assist the NLM and the LHCNBC in identifying and stabilizing long term organizational program goals?
- (3) How can the research activities of the Lister Hill Center be coupled to the long term needs of the NLM and its mission?
- (4) How can LHCNBC emphasize research and development activities in an appropriate manner?
- (5) How can the Board of Scientific Counselors function be improved by clarifying and separating management issues from scientific issues?

Dr. Molnar emphasized the interest of the subcommittee in coming up with constructive recommendations in a way to assist NLM and LHCNBC management in dealing with sensitive and delicate issues.

The meeting included long and frank discussion of the problems associated with a Center which has research, development, and community service roles given finite budgetary, staff and managerial resources.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE
Bethesda, Maryland

A G E N D A

76th Meeting of the

BOARD OF REGENTS

9:00 a.m., May 24-25, 1984

BOARD ROOM
Mezzanine of
National Library of Medicine

MEETING OPEN: All day on May 24 and from 9:00 to 10:30 a.m. on May 25.
MEETING CLOSED: From 10:30 a.m. to adjournment on May 25 for the review of grant applications (approximately one hour).

- I. CALL TO ORDER AND INTRODUCTORY REMARKS Dr. William D. Mayer
- II. REMARKS BY THE DEPUTY ASSISTANT SECRETARY FOR HEALTH Dr. C. Everett Koop
- III. REMARKS BY THE DEPUTY DIRECTOR FOR INTRAMURAL RESEARCH Dr. J. E. Rall
- COFFEE BREAK
- IV. CONSIDERATION OF JANUARY MINUTES TAB I Dr. William D. Mayer
(Agenda Book)
- V. DATES OF FUTURE MEETINGS

Fall Meeting: October 18-19, 1984 (Th-F)--CONFIRMED
Winter Meeting: January 24-25, 1985 (Th-F)--CONFIRMED
Spring Meeting: May 23-24 OR May 30-31, 1985--PROPOSED

PLEASE NOTE: Medical Library Association Annual Meeting
May 25-30, 1985 -- New York
Association of Research Libraries - Semi-annual
Meeting, May 15-17, 1985 -- Cincinnati
AAAS Annual Meeting, May 23-28, 1985 -- Los Angeles

5/2/84

- VI. REPORT OF THE ACTING DIRECTOR, NLM TAB II Dr. Harold M. Schoolman
 Discussion Board Members

- VII. RECOMMENDATIONS OF THE SUBCOMMITTEE ON TAB III Mrs. Shirley Echelman
 PRICING REGARDING DEPT. STUDY OF NLM Subcommittee Members,
 Discussants
 Discussion Board Members

- (Photograph of Board members to be taken
 on front steps of Library.) 12:30-12:40

- LUNCHEON CATERED IN CONFERENCE ROOM "B" 12:40- 1:30

- VIII. DREXEL UNIVERSITY'S EVALUATION OF NLM'S TAB IV Dr. Elliot Siegel
 BIBLIOGRAPHIC ACTIVITIES IN THE MEDICAL Dr. Henry Riecken
 BEHAVIORAL SCIENCES
 Discussion Board Members

- IX. SOME CURRENT NLM ISSUES:

 - A. Introduction Dr. Calvin H. Plimpton
 Dr. Henry Riecken

 - B. Scope and Coverage TAB V Mrs. Lois Ann Colaianni
 Dr. L. Thompson Bowles,
 Discussant
 Discussion Board Members

 - COFFEE BREAK

 - C. Lister Hill Center Programs TAB VI Dr. Richard B. Friedman
 Mr. John K. Lopez
 Dr. David O. Moline, and
 Dr. Charles E. Molnar,
 Discussants
 Discussion Board Members

 - D. NLM Public Affairs TAB VII Mr. Robert Mehnert
 Dr. Lois E. DeBakey,
 Discussant
 Discussion Board Members

- X. REPORT OF THE NOMINATING COMMITTEE Col. James E. Hastings

R E C E S S

DINNER	Bethesda Holiday Inn
Cocktails	6:30 p.m. "Montgomery Room"
Dinner	7:30 p.m. "Versailles IV"

SPEAKER: Dr. Lois E. DeBakey
 Professor of Scientific Communications
 Baylor College of Medicine, and
 Board of Regents' Member

TITLE: "A Deluge of Words, and a Drop of Sense."

R E C O N V E N E: Friday, May 25, 9:00 a.m. -- BOARD ROOM

XI.	TRIP TO INDIA	<u>TAB VIII</u>	Dr. William D. Mayer Dr. Calvin E. Plimpton Dr. Jeanne L. Brand
	Discussion		Board Members

XII.	REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS	<u>TAB IX</u>	Dr. William G. Cooper EP Subcommittee Members Discussants
	COFFEE BREAK		

 MEETING CLOSED FOR THE REVIEW OF GRANT APPLICATIONS, 10:30-11:30 A.M., MAY 25

XIII.	SPECIAL APPLICATIONS	(Gray Book)	
	A. Research	<u>TAB I</u>	Dr. Roger W. Dahlen
	B. Resource	<u>TAB II</u>	" " " "
	C. Publication	<u>TAB III</u>	Dr. Jeanne L. Brand

XIV.	SUMMARY STATEMENTS		
	A. Research	<u>TAB IV</u>	Dr. Roger W. Dahlen
	B. New Investigator	<u>TAB V</u>	" " " "
	C. Career Development	<u>TAB VI</u>	" " " "
	D. Resource	<u>TAB VII</u>	" " " "
	E. IAIMS (Integrated Academic Information Management Systems)	<u>TAB VIII</u>	" " " "
	F. Improvement	<u>TAB IX</u>	" " " "
	G. Publication	<u>TAB X</u>	Dr. Jeanne L. Brand

 XV. ADJOURNMENT 11:30 Dr. William D. Mayer

DEPARTMENT OF HEALTH AND HUMAN SERVICES

NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE

BOARD OF REGENTS
MINUTES OF THE 76TH MEETING
MAY 24-25, 1984

BOARD ROOM
NATIONAL LIBRARY OF MEDICINE
BETHESDA MARYLAND

DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE

THE BOARD OF REGENTS OF THE NATIONAL LIBRARY OF MEDICINE

Minutes of Meeting 1/ 2/
May 24-25, 1984

The Board of Regents of the National Library of Medicine was convened for its seventy-sixth meeting at 9:00 a.m. on Thursday, May 24, 1984, in the Board Room of the National Library of Medicine, Bethesda, Maryland. Dr. William D. Mayer, Chairman of the Board of Regents, and President of the Eastern Virginia Medical Authority, presided. In accordance with P.L. 92-463 and the Determination of the Director, NIH, and as announced in the Federal Register on April 20, 1984, the meeting was open to the public from 9:00 a.m. to 5:00 p.m. on May 24 and from 9:00 to 10:30 a.m. on May 25. The meeting was closed from 10:30 to adjournment at 11:15 a.m. on May 25 for the review, discussion, and evaluation of grant applications. A Board roster is enclosed under Attachment "A."

Board members present were:

Dr. L. Thompson Bowles (May 24)
Dr. Gwendolyn S. Cruzat
Dr. Lois E. DeBakey
Mrs. Shirley Echelman
Dr. Charles C. Edwards (May 24)
Dr. Albert E. Gunn
Dr. C. Everett Koop (Ex officio) (May 24)
Dr. William D. Mayer
Dr. David O. Moline
Dr. Charles E. Molnar
Dr. Robert Rabin (Ex officio)

Alternates to ex officio members present were:

Dr. Faye G. Abdellah, representing D. C. Everett Koop.
Capt. Noel Dysart, representing Vice Admiral Lewis H. Seaton.
Col. James E. Hastings, representing Lt. General Bernhard Mitemeyer.

Unable to attend:

Brig. General Vernon Chong
Mr. James Hahn
Dr. John K. Lopez
Mr. William J. Welsh

1/For the record, it is noted that members absent themselves from the meeting when the Board is discussing applications from their respective institutions (interpreted to mean the entire system of which a member's institution is a part) or in which a conflict of interest might occur. Only when an application is under individual discussion will the Board member absent himself. This procedure does not apply to "en bloc" actions.

2/The Board of Regents, when considering the extramural programs of NLM, also constitutes and serves as the National Medical Libraries Assistance Advisory Board.

National Library of Medicine staff members attending this meeting included:

Dr. Harold M. Schoolman, Acting Director
Dr. Donald A. B. Lindberg, Director-designate
Mr. Kent A. Smith, Deputy Director
Mr. John Anderson, Director, Information Systems, OD
Mr. Albert M. Berkowitz, Chief, Reference Services Division, LO
Dr. Jeanne Brand, Chief, International Programs Branch, EP
Mr. Arthur J. Broering, Deputy Associate Director for Extramural Programs
Mr. Kenneth Carney, Executive Officer, OD
Ms. Lois Ann Colaianni, Acting Associate Director for Library Operations
Dr. William G. Cooper, Associate Director for Planning and Associate
Director for Extramural Programs
Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP
Dr. Richard B. Friedman, Director, Lister Hill National Center for
Biomedical Communications
Mr. B. Earl Henderson, Deputy Director, Lister National Center for
Biomedical Communications
Ms. Betsy L. Humphreys, Chief, Technical Services Division, LO
Dr. Henry M. Kissman, Associate Director for Specialized Information
Services
Mr. Sheldon Kotzin, Chief, Bibliographic Services Division, LO
Mr. Robert B. Mehnert, Chief, Office of Inquiries and Publications
Management, OD
Mr. Stanley J. Phillips, Deputy Executive Officer, OD
Dr. Calvin Plimpton, Special Assistant for International Programs, OD
Mr. Arthur Robinson, EEO Coordinator
Mr. Mark J. Rotariu, Chief, Office of Financial Management, OD
Dr. Elliot R. Siegel, Special Assistant for Operations Research, OD
Mr. Richard T. West, Chief, Office of Program Planning and Evaluation, EP

Others present included:

Dr. J. E. Rall, Deputy Director for Intramural Research, NIH

Members of the public present:

Mr. Greg Pearson, Reporter, "The Blue Sheet"
Mr. Thaddeus Plante, Legal Assistant, Kaye, Scholar, Fierman, Hays & Handler
Mr. Robert Willard, Vice President, Government Relations, Information
Industry Association

I. OPENING REMARKS

Dr. William D. Mayer, Chairman, welcomed the Regents and guests to the 76th meeting of the Board of Regents. He introduced Captain Noel Dysart (attending for the Surgeon General of the Navy). Dr. Mayer commented that Dr. Donald Custis, former Surgeon General of the Navy and later Chief Medical Director of the Veterans Administration, has just resigned from the VA. The Regents will miss his counsel, and the Chairman will arrange for a letter, expressing the Board's appreciation, to be sent to Dr. Custis. Dr. Mayer introduced the NLM Director-designate, Donald A. B. Lindberg, M.D., who has been selected by the NIH Director to assume leadership of the Library.

Dr. Mayer noted that this is his last meeting after having served seven years on the Board--three as an ex officio member and four as an appointed member. He strongly believes that, although NIH is unmatched in its ability to generate new biomedical knowledge, it has been derelict in developing comparable knowledge about how to distribute this information. There is a "gross national unwillingness" to support research and training in medical informatics, he said, although NLM has valiantly tried to fill this gap. In a discipline-like medicine that is heavily knowledge-based, it is a serious error to neglect this area. He hopes that NIH and other officials will open their eyes to see the tremendous potential for improving "laboratory bench to bedside" communications. Dr. Mayer urged that the Regents not "give up the fight" and that they seek the advice of Dr. Lindberg who has long experience in this field. If the U.S. is to maintain its leadership in biomedical science, we must, in addition to generating new knowledge, also generate the capacity to utilize that knowledge. He paraphrased Alfred North Whitehead by saying that "education is the acquisition of the science of the utilization of knowledge" and not simply the acquisition of knowledge per se.

II. REPORT OF THE SURGEON GENERAL

Dr. C. Everett Koop, PHS Surgeon General and Deputy Assistant Secretary for Health, reported on the recent meetings of the World Health Assembly of WHO in Geneva where he was the U.S. chief delegate. In addition to budget and procedural matters, there were two controversial issues discussed: the extension of the infant formula code to include other types of infant food and the marketing of essential drugs in the third world. The WHO delegates also discussed the program "Health for All by the Year 2000," chosen as a theme in 1978. The first goal is a pure water supply for all nations by the year 1990, a goal that will unfortunately be unattainable for some of the poorest countries. Dr. Koop's greatest concern about WHO is its unfortunate tendency to politicize health matters. The Surgeon General noted that his new report on smoking was released yesterday (May 23) and that it has gained much publicity. He has called on various sectors of the private community to work toward a "Smoke-Free Society by the Year 2000," and he is optimistic that progress will be made toward this goal. Dr. Koop also reported on a very successful project begun in 1982--"The Surgeon General's Workshop on Children with Handicaps and Their Families." Two reports have been issued on this Workshop and the remarkable progress made since.

The Surgeon General noted several other items: Two PHS women led the 1984 graduating class at the Uniformed Services University of the Health Sciences. Dr. Leonard Bachman of PHS and Medical Director of the National Oceanographic and Atmospheric Agency has completed a very useful manual on physical standards, nutrition, and care on their 365 vessels. The President has appointed an interagency task force (chaired by Dr. Koop) on the handicapped. One of their jobs will be to unwind much of the private and public duplication of effort that now occurs in this field. The President has also established a commission on pornography, with which the Surgeon General will be working closely. The Smithsonian Institution now has a health curator who is collecting PHS artifacts. In June there will be a Surgeon General's Conference on Breast Feeding and Lactation. The PHS will be publishing a remarkable book, The Medicine Sea Chest, for use on merchant marine ships (and suitable for family use also).

III. REPORT OF THE DIRECTOR, NIH

Dr. J. E. Rall, NIH Deputy Director for Intramural Research, represented Dr. Wyngaarden. Dr. Rall said that one of the great strengths of NIH is its system of advisory committees. These committees give NIH an "eye to the whole world of biomedical science," and he assured the Regents that their deliberations and advice are taken seriously by the NIH Director's office. Dr. Rall thanked Dr. Schoolman for the high quality of his interim leadership of NLM. He said that one of the challenges faced by the NLM and the Board is the need to apply new technology to solve library space problems. He congratulated Dr. Lindberg on his appointment as NLM Director.

IV. CONSIDERATION OF MINUTES OF PREVIOUS MEETING

The Regents approved the minutes of the January 26-27, 1984, meeting without change.

V. DATES OF FUTURE MEETINGS

The Board will meet next on October 18-19. The dates of January 24-25, 1985, were confirmed for the following meeting. The tentative dates of June 6-7, 1985, were selected for next spring's meeting.

VI. REPORT OF THE NLM ACTING DIRECTOR

Dr. Harold M. Schoolman said that NLM meets with the policy officials of its international MEDLARS partners every two to three years and with the technical staff of these institutions slightly more often. A policy group meeting was scheduled in Australia in October. Because a technical meeting dealing with MEDLARS III will be held in the U.S. about the same time, it was decided to hold both meetings in the U.S. to minimize travel for the participants. Dr. Schoolman also reported that the Association of American Medical Colleges (AAMC), under a contract from NLM, is conducting a new study on medical informatics. The AAMC had completed an earlier report in 1971, under a committee

chaired by Dr. Eugene Stead. The organizers of the new study will arrange for a colloquium in late 1984 or early 1985 that will include two overview reports and six state-of-the-art lectures, to be followed by small group discussions. Based on these, the AAMC will prepare a report with recommendations which would be available by the middle of next year.

Dr. Schoolman used slides to describe the 1984 budget operating level (\$49,613,000) and the 1985 President's budget (\$51,320,000). The authorization for the Medical Library Assistance Act has not been resolved yet; the House has passed a reauthorization bill, but the Senate has not, and its prospects are dim. Without a new authorization, the Library will be held to the \$7,500,000 level for grant programs through the end of FY 1984. Dr. Schoolman characterized the House hearings on the 1985 budget as "friendly and penetrating," with the members showing interest in the medical informatics issue and enthusiasm for the Integrated Academic Information Management Systems (IAIMS). These House hearings were augmented by citizen testimony from Dr. Robert Levy (Columbia University) and Professor Peter Szolovits (MIT) who were very supportive of an increase to NLM's budget. The Senate hearings, Dr. Schoolman said, were perfunctory. Also on the legislative front, the Acting Director brought to the attention of the Regents a bill (H.R. 5098), called the "Information Dissemination and Research Accountability Act." Introduced by Robert G. Torricelli (D-NJ), this Act seeks to reduce duplication of research involving live animals. The draft legislation posits an important role for the NLM in this by calling on the Library to utilize modern technology to put all available published information in machine-retrievable form. On another matter, NLM is expecting a rewritten OMB policy circular on Federal information management soon, perhaps this summer. NLM and the Board may wish to respond to the new circular; this may have to be done before the next Board meeting depending on when OMB releases it. Dr. Schoolman noted several personnel actions: Dr. Richard Friedman has announced he will be leaving NLM to go back to the University of Wisconsin in July; Dr. William Cooper and Mrs. Lois Ann Colaianni are no longer "acting" but are officially Associate Director for Extramural Programs and Associate Director for Library Operations, respectively. Three NLM staff members are being honored: Mr. Kent Smith will receive the Assistant Secretary for Health's Award for Exceptional Achievement; Mr. Roger Gilkeson, a PHS Special Recognition Award for his work on the AIDS hotline; and Dr. Melvin Spann, the NIH Director's Award. Dr. Schoolman concluded by noting that it is his opinion that NLM will be facing more stresses and have more need for adaptation in the next decade than in all its previous history. He therefore welcomes the strength the Library is receiving in Dr. Lindberg, a person with broad experience and international reputation. "It is a pleasure to welcome him to NLM."

VII. RECOMMENDATIONS OF THE PRICING SUBCOMMITTEE

Dr. Mayer introduced this discussion by noting that the recent Departmental study of NLM recommended that the Regents review the issue of differential pricing by category of user for MEDLARS services. This study was discussed at the January 26-27, 1984, meeting of the Board (see minutes, page 6). The Pricing Subcommittee prepared a draft report on the subject for consideration by the entire Board at this meeting.

Mrs. Shirley Echelman, who chaired the Subcommittee, described the deliberative process which brought about the draft report. Central to this process was an open meeting on March 26 at which representatives of various interests in the private sector presented comments and testimony on the issue of differential pricing. Mrs. Echelman summarized the major points of the report and listed the specific recommendations. These include concurrence with the HHS study's recommendation that the policy of recovering MEDLARS access costs is reasonable and that it should be retained (with the understanding that total access costs should be recovered across the spectrum of products provided and not product-by-product); that reaffirmation of the costs of building the database are intrinsic to the Library's mandate; that differential pricing by type of user be rejected by the Board (the report itself goes into detail on this subject); and that foreign MEDLARS users be charged at a higher rate than domestic users.

Following Mrs. Echelman's presentation, there was general discussion about the Subcommittee's recommendations. There was some concern expressed about the effect of higher prices on foreign users. Mrs. Echelman said that she had discussed this with the director of a foreign MEDLARS center who said that he and his colleagues understood the rationale for such an increase and would not object. She added that the study has special provisions for developing nations so that their access to MEDLARS would not be inhibited by economic considerations. The motion to accept the report was passed unanimously, with one abstention.

VIII. TRIP TO INDIA

Dr. Mayer began the discussion of potential NLM services in India by noting that, when looking at a world map of MEDLARS partners, there is a huge gap between Kuwait and Japan and Australia. There was an unsuccessful effort five or six years ago to develop a relationship with India. With the July 1982 meeting between President Reagan and Prime Minister Indira Gandhi and the subsequent science initiative between the two countries, the possibility of cooperation between NLM and Indian institutions has been raised again. A group from NLM visited India in late February. It consisted of Dr. Calvin Plimpton in his new role as NLM Special Assistant for International Programs; Dr. Jeanne Brand, Chief of the International Programs Branch of NLM Extramural Programs; Dr. Sune Bergstrom, Professor Emeritus of the Karolinska Institute, Nobel laureate, and active for many years in the World Health Organization; and Dr. Mayer, Board Chairman. The situation in India is complex, Dr. Mayer said, in that it is not a simple matter of just linking the NLM with what they call the NML (National Medical Library of India). The list of individuals and organizations involved is formidable. Nevertheless, after discussion, it was felt that there was a possibility that those groups could work together to agree on a cooperative arrangement with NLM.

Dr. Plimpton said that one major problem with attempting to tie Indian institutions into a worldwide network is the backward state of their telephone system. He gave a brief account of their discussions with the major involved Indian organizations: the National Medical Library, Indian Council of Medical

Research, National Planning Commission, Indian National Scientific Documentation Center, and the National Informatics Center. All the Indian officials were very supportive of cooperation between NLM and Indian institutions. The India office of the U.S. Agency for International Development (AID) was very interested in fostering a cooperative arrangement between NLM and the Indians; AID might even be able to contribute financial support to such an undertaking. The U.S. Ambassador, Harry Barnes, was also very supportive. Because telephonic communications with India are poor for reliable online access, Dr. Plimpton arranged to send 24 copies of Medical Subject Headings and a sample MEDLARS tape for their use. Apparently they have made good use of these materials, for they have made arrangements with Dr. Bergstrom to send several WHO experts to help establish a MEDLARS Center. It appears that the National Informatics Center would be the locus for this effort.

Dr. Jeanne Brand commented on the political climate of their negotiations. She said it was unusual in that "all the bureaucratic wheels on the Indian side worked in perfect concert." In the last 15 years there has been only limited foreign-currency-sponsored (P.L. 480) scientific cooperation with the U.S. Public Health Service, although many Indian scientists have been invited to work in NIH laboratories. NLM has had a few P.L. 480 projects in India for translating and printing scientific works; more ambitious developmental projects were not approved by the Indian government. Therefore, she said, it was a pleasant surprise to see the degree of willingness and cooperation displayed by Indian officials on the recent visit. Of course, MEDLINE has the potential to be immensely beneficial to India. Dr. Brand also briefly noted that negotiations are under way to have the MEDLARS-produced Quarterly Bibliography of Major Tropical Diseases (now published and distributed by WHO) printed by the Amerind Company in India under the P.L. 480 program.

Following these presentations, Mrs. Echelman expressed the concern that introducing online database searching to India addresses only half the problem. The other half is: how do you provide the actual documents? They have neither the collections to serve as backup nor the library organization through which documents could be obtained. NLM should understand that providing MEDLARS services will raise the level of frustration of Indian health professionals. Dr. Mayer said that the Indians acknowledge that as a problem, but he added that the Indian Council of Medical Research and its satellite research centers are planning to become just such a network for document delivery for researchers. Dr. Lindberg suggested that the agreement with the Indians require them to provide NLM with information about the nature of usage of our system.

IX. NLM COVERAGE OF THE MEDICAL BEHAVIORAL SCIENCES

Dr. Elliot Siegel of the NLM Office of the Director briefly described a recent study conducted for the Library by Drexel University. The purpose of the study was to evaluate NLM's coverage of the medical behavioral sciences (MBS) literature and to test citation analysis methods for analyzing NLM's coverage of literature that lies outside the traditional biomedical domains. The MBS field was last evaluated for the Library in 1967, but since that time there have been

many changes. The "classical core" of MBS--psychiatry, clinical psychology--is changing, and other areas, e.g., cognition, developmental psychology, are becoming increasingly important to health-related researchers and practitioners. There were five research questions in the study. Dr. Siegel focused on two: How well does NLM cover the MBS journal literature? How well does NLM cover the MBS monograph literature? He described the methods by which the study identified a representative "target" sample of journals and monographs thought to be important to health professionals, then went on to show how well the NLM's MEDLARS (and several other bibliographic systems) covered this literature.

The results disclosed that although no single database was perfect, some were better than others in their coverage of the MBS journal literature. MEDLINE contained about half of the target citations as opposed, for example, to the more complete coverage in PsychInfo. MEDLINE's coverage most closely resembled Excerpta Medica and BIOSIS (BioSciences Information Service) in being more medical and biological than social and behavioral. NLM's gaps were in such deliberately excluded areas as cognition, group interaction, learning, and perception. These areas have increased in importance in recent years, according to the contractors, and their coverage should be reviewed. The study also recommended that methodological journals should be covered and their indexing oriented toward research application. Basic, theoretical, and general journals of sociology, psychology, and cultural anthropology should be considered for complete indexing because of their wide use by MBS scholars. The most controversial recommendation, Dr. Siegel said, is that fewer journals should be selectively indexed by NLM; selective indexing should be reserved for journals in general science. In the area of monographs, the study found that NLM again held about half of the target sample of titles; the Library of Congress had nearly 70 percent. NLM's performance was strong in medical areas and weaker in psychology, social science, cultural anthropology, and in methodological holdings. The study recommends that NLM's monograph collection policy be reexamined in light of these gaps.

The results of the Drexel study, Dr. Siegel said, have been provided to those working on the revision of the NLM Scope and Coverage Manual. In addition, the NLM consultants who select journals for Index Medicus will be asked to review the list of identified journals that are selectively indexed, and not indexed as recommended by the study. NLM staff are reviewing the guidelines used by indexers to determine which articles in a selectively indexed journal are actually chosen for indexing.

Following Dr. Siegel's presentation, Mrs. Echelman raised the question of the adequacy of citation analysis as a method for determining the quality of a library's coverage. Work that is little cited, she said, may turn out to be enormously important. Although this was acknowledged to be a potential problem, there appears to be no acceptable alternative methodology for objectively deriving this sort of statistical information for the scientific literature. Dr. Schoolman noted that applying such citation analysis methods to journal selection (as opposed to identifying highly cited articles) is valid and a useful bibliometric tool for NLM to employ.

X. CURRENT NLM ISSUES

Dr. Calvin Plimpton introduced three topics important for the future of NLM: the proper scope of the Library's collections; the future direction of the Lister Hill Center programs; and the visibility of NLM within the biomedical community.

A. Scope and Coverage

Mrs. Lois Ann Colaianni, NLM Associate Director for Library Operations, defined scope (the extent of the subject areas to be addressed by NLM) and coverage (the comprehensiveness with which materials in those subject areas are addressed) and said that these two considerations are fundamental to the Library and mandated by legislation. The basic principles governing the NLM scope and coverage policy are established by the Board of Regents and can be summarized as follows: comprehensive coverage of scholarly biomedical literature; the collection is intended primarily for health professionals; the collection policies of the Library of Congress and National Agricultural Library must be considered; there is no attempt at evaluating the content of the literature by NLM staff; the scope and coverage policies are contained in a manual which is to be reviewed periodically. The current policies are now undergoing such a review, Mrs. Colaianni said, and a new edition of the manual should be ready by the end of 1984. Dr. Faye Abdellah is the Board's representative in this updating effort. Mrs. Colaianni described some of the changes in biomedical publishing over the last two decades, including the growth in number of items published and the growth in NLM's acquisition budget.

The most recent revisions of the manual have tended to sharpen the focus of NLM's collection on scholarly as opposed to ephemeral materials, biomedical as opposed to basic sciences, and material for use by the health sciences professional as opposed to the lay public. In the manual, subjects have been designated as "core" biomedicine, closely related to biomedicine, peripherally related to biomedicine, and out-of-scope. Mrs. Colaianni also discussed the policies governing the selection of serials for Index Medicus by a group of knowledgeable consultants to NLM. The number of journals in Index Medicus has increased only 20 percent in the last 20 years, although the number of articles indexed has risen by 118 percent. Out of the 23,000 serial titles currently received by NLM, NLM is indexing 2,790. Of the 23,000, however, Mrs. Colaianni emphasized, many would not be suitable for indexing because they are annuals, directories, or other unindexable forms of publications.

There are several current influences that make the determination of scope and coverage policy even more difficult. One is the increasing recognition that information from traditionally nonmedical sources can be important to the practice of medicine, for example, literature on environmental pollution or the medical behavioral sciences. A related problem is that research in areas not strictly health-related is used by health sciences professionals, for example, some branches of chemistry and engineering. Other problems involve information in machine-readable form, computer-assisted instruction packages, electronic journals, software, etc. In the presence of such influences it is becoming more and more difficult to determine what should be the boundaries of NLM's collections.

In addition to the philosophic considerations in determining how NLM should draw the boundaries of its collection, there is the practical consideration of the increased resources necessary to accomplish any recommendation that would greatly enlarge the Library's scope and coverage or expand the indexing coverage of Index Medicus. Mrs. Colaianni presented figures showing estimated additional resources required both to purchase the increased literature and to catalog and index it. The physical size of the Index Medicus is also a consideration; we are now almost at the limit of the number of pages that can be accommodated in one monthly volume. Mrs. Colaianni concluded by saying that the Library may wish to modify its role to include responsibility for ensuring that the important functions to acquisition, preservation, bibliographic control, document delivery, and reference assistance are being carried out for all the biomedical literature, even if they are not all carried out by NLM. The Library might assume different degrees of responsibility for different classes of material and depend on the availability of complementary non-NLM services. If this course is chosen, the Library will have to assume a greater responsibility for switching users to these other services and for working with other institutions to provide more coherent access to information for the whole range of health professionals.

Following Mrs. Colaianni's presentation, Dr. Bowles commented that it would seem to be an impossible task for NLM to attempt to provide comprehensive access to the full range of biomedical literature. With new leadership at the Library this may be an excellent opportunity over the next few years for the Board of Regents, the NLM, and the health community to jointly address the problem of how the Library should deal with an "exploding knowledge base." He foresees a transitional period of some years during which traditional services will have to be maintained before the "new world" of telecommunications and computerization is completely installed. Dr. DeBakey noted that one of the strong points of medicine (as opposed to other scientific disciplines) has been that it had one major source from which one could retrieve most of the important published materials. She therefore believes NLM should be as inclusive as feasible in its collecting policies. Mrs. Echelman suggested that NLM should decide whether it is responsible for providing within its own collection (or in its indexes) the totality of biomedical information or whether it should just be responsible for assuring that the information is available, indexed, and accessible to researchers.

B. Lister Hill Center Program Review

Dr. Charles Edwards said that at the Board's Lister Hill Subcommittee meeting yesterday the members expressed their regret that Dr. Friedman would be leaving as the Center's Director and they praised the important contributions he has made in the span of one year. Dr. Charles Molnar then briefed the Regents on the March meeting of the LHC Board of Scientific Counselors. There was some concern expressed by members of that Board about the nature of some of LHC's developmental projects. These projects, Dr. Molnar said, were in fact quite defensible because they would contribute to the solution of problems facing other components of NLM. The Board had not understood the purpose of the projects, thus giving rise to a misunderstanding. The Board of Scientific Counselors also expressed the belief that a representative from the Regent's

LHC Subcommittee should be present at the Counselors' meetings. Another problem faced by the Counselors, Dr. Molnar said, was assessing the relative weights and priorities of the research, development, and service components and understanding the relationships among these very different kinds of activities. The Board of Regents can help by enunciating clearly the LHC's goals and objectives in these three areas. Dr. Edwards said that in view of the fact that the Library would be looking for a replacement for Dr. Friedman, this would be a good time for the Board of Regents' LHC Subcommittee and NLM management to look at these three components of the Lister Hill Center's mission and to redefine them in terms of the Library's overall objectives. Dr. Friedman commented that in the past year he has attempted to move the LHC in the direction of a research center. This has been difficult, given the service and demonstration orientation of the National Medical Audiovisual Center which was merged into the LHC last year. Dr. Friedman agreed that there was a need to redefine and balance the LHC role in research, demonstration, and service. Dr. Bowles' motion to have the Board's Lister Hill Subcommittee continue its review of the Center's goals and objectives, now in cooperation with NLM's new director, and to report to the full Board in October, was approved unanimously.

C. NLM Public Affairs

Mr. Robert Mehnert, Chief of NLM's Office of Inquiries and Publications Management, described a number of steps being considered to increase professional and lay awareness of NLM's services. It is important to let these audiences know that their tax dollars are going for such beneficial services as NLM provides. Society will reap maximum benefit from its investment in the Library only if its services are widely known and widely used.

Mr. Mehnert suggested a number of steps to improve the dissemination of information about NLM. First, in the area of publications, NLM should attempt to foster articles by health professionals for their colleagues in such widely read outlets as Medical World News. Regents, past and present, could be asked to help in this effort. NLM might host a Science Writers' Seminar to demonstrate what services the NLM can provide to health professionals and to medical journalists. This would result in articles in the lay and professional press about NLM. NLM is also considering sending series of news items to some 4,000 daily and weekly suburban papers and also to radio and television stations. Exhibits is another area where NLM can do more, Mr. Mehnert said. This year the Library is placing more emphasis on exhibiting at meetings of health professionals, as opposed to concentrating on meetings for medical librarians. Finally, NLM is exploring the possibility of participating in the AMA/GTE Medical Information Network (MINET). NLM has been discussing putting up on that network an "NLM/NIH Bulletin Board" that would alert MINET's users about new NLM Literature Searches, brief research highlights from NIH, etc.

Following Mr. Mehnert's presentation, Dr. DeBakey agreed that the steps he outlined were appropriate. She feels there is a great need for such actions-- it is appalling that so many physicians don't know about the unique NLM and appreciate its importance in medical research, education, and patient care. She commented that it is important also to reach the general public with this

message. Dr. DeBakey urged the Regents to join her in exploring ways of advancing this plan within their own disciplines and communities. Dr. Gunn commented that the plan to increase awareness of NLM was well conceived; he suggested other outlets for these messages--the Cable Health Network and the "Physician's Journal Update" program. Mrs. Echelman said that we must recognize that such a program is necessarily a long-term affair; of primary importance will be to decide just what message or theme the Library wishes to convey. There was a general agreement among the Regents that a Science Writers' Seminar would be highly desirable and might result in more coverage for NLM in the lay and professional media. Dr. Plimpton said that NLM needs an active "Friends of the Library" organization that could help in matters of this nature. He welcomed the ideas of the Regents about a "Friends" group.

Following the last "current issue," Dr. Henry Riecken was called on to clarify the major issues raised in the previous day's issues discussions. He summarized the major issues laid out by Mrs. Colaianni: (1) where to draw the boundary around the scope of literature collected by NLM; (2) how rapidly should scope and coverage change; (3) how much overlap is desirable between NLM and other systems--should there be a "single source" of information; and (4) can NLM differentiate among functions, for example, not collect documents in a certain area but provide bibliographic access to it.

XI. REPORT OF THE NOMINATING COMMITTEE

Col. James E. Hastings, acting as chairman of the nominating committee in Mr. Welsh's absence, placed in nomination the name of Dr. L. Thompson Bowles. Dr. Bowles was unanimously elected Chairman for the year, beginning August 4, 1984, and ending August 3, 1985.

XII. REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS

Dr. William G. Cooper announced the names of the four new members who will begin their four-year term on the Biomedical Library Review Committee on July 1: Ms. Rachael K. Goldstein, Health Sciences Librarian, Columbia University; Dr. G. Anthony Gorry, Vice President for Institutional Development, Baylor College of Medicine; Ms. Donna P. Johnson, Director of the Resource Center of Abbott Northwestern Hospital; and Dr. Randolph A. Miller, Assistant Professor of Medicine, University of Pittsburgh. Dr. Lauro Cavazos, President of Texas Tech University, will be the Committee's new chairman, replacing outgoing chairman Dr. Edward H. Shortliffe, who with Mr. Robert M. Braude, Dr. Carroll M. Leevy, and Dr. Ruann Pengov, is completing his term on June 30, 1984.

Dr. Cooper briefly reviewed the FY 1984 Extramural Programs budget. No change in the \$7.5 million annual level has occurred since FY 1982, with the effect that interest in the community to apply for NLM grants has waned. There prevails a feeling that in the face of uncertainty about available funds, it is not worth applying. The MLAA program, nevertheless, continues to be

of high priority to NLM. New fact sheets have been issued to interest the community in applying. However, until more stability on the availability of resources is reached, the program will have problems in attracting more quality applications.

Continuing with his report, Dr. Cooper presented an update on the IAIMS initiative. He noted that progress reports have been received from the four institutions, and each one shows evidence of exciting prospects. Since it became apparent that more than one year is needed for the planning phase, NLM funds have been made available to provide an extension to each contractor, so that the four institutions will be able to compete for funds for the second phase--the development phase--by November 1, the deadline for receipt of applications. The new RFA (Request for Application) will be sent out within two weeks and will be distributed widely throughout the Nation. Planned for this fall is a colloquium which will bring together the contractors and grantees to share their experiences with other interested individuals. NLM will continue to disseminate information about this program through the NLM News and seize other opportunities as they present themselves.

MEETING CLOSED FOR THE REVIEW OF GRANT APPLICATIONS - 10:30 A.M. MAY 25

XIII. REVIEW OF PENDING APPLICATIONS

Before proceeding with the consideration of pending applications, Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP, informed Board members of confidentiality and conflict-of-interest procedures and reminded them to sign, at the conclusion of the grant application review, the statement that they had not participated in the discussion of any application where conflicts of interest might occur.

The Board concurred with the recommendations of the Extramural Programs Subcommittee which met on May 23. A total of 84 applications was reviewed, of which 39 were recommended for approval and 38 for disapproval. Seven applications were deferred. Grant applications recommended for approval by the Board are listed in the summary actions (Attachment B). Interim actions taken by Extramural Programs staff since the January Board meeting were noted.

XIV. ADJOURNMENT

The meeting was adjourned at 11:15 a.m., Friday, May 25, 1984.

* * * * *

Wednesday, May 23, 1984, 3:00 to 4:15 p.m.
(EP Subcommittee--List of Attendees under Attachment C)

Wednesday, May 23, 1984, 3:00 to 4:15 p.m.
(Lister Hill Center Subcommittee--List
of Attendees under Attachment D)

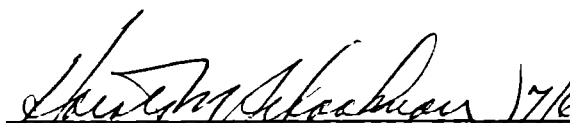
Thursday, May 24, 1984, 9:00 a.m. to 5:00 p.m.
Friday, May 25, 1984, 9:00 to 11:15 a.m.

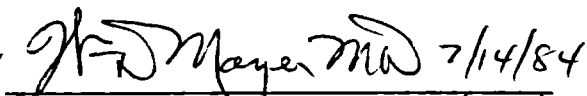
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ACTIONS TAKEN BY THE BOARD OF REGENTS

1. The Board unanimously passed the Pricing Subcommittee's report on differential pricing by category of MEDLARS users which was prepared in response to the DHHS December 1983 study on "NLM Cost Recovery and Competition With the Private Sector."
2. The Board unanimously approved a motion that the Lister Hill Center Subcommittee continue to review the goals of the Lister Hill National Center for Biomedical Communications, in cooperation with the NLM Director, and to report to the full Board in October.
3. Following the recommendations of the Nominating Committee, Dr. L. Thompson Bowles was unanimously elected Chairman of the Board of Regents for the year, beginning August 4, 1984, and ending August 3, 1985.
4. The Board concurred with recommendations of the Extramural Programs Subcommittee. Grant applications recommended for approval are listed in the summary actions (Attachment B).

I hereby certify that, to the best of my knowledge, the foregoing minutes and attachments are accurate and complete.


Harold M. Schoolman, M.D. (Date)
Executive Secretary


William D. Mayer, M.D. (Date)
Chairman

BOARD OF REGENTS OF THE NATIONAL LIBRARY OF MEDICINECHAIRMAN

MAYER, William D., M.D. (8/3/84)
 President
 Eastern Virginia Medical Authority
 P. O. Box 1980
 Norfolk, VA 23501 804-446-5201

BOWLES, L. Thompson, M.D., Ph.D. (8/3/86)
 Dean for Academic Affairs and
 Professor of Surgery
 The George Washington University
 Medical Center
 2300 I Street, N.W. #713
 Washington, DC 20037 202-676-3501

GUNN, Albert E., M.D. (8/3/87)
 Medical Director
 Rehabilitation Center
 University of Texas/M. D. Anderson
 Hospital and Tumor Institute
 6723 Bertner Avenue 713-792-3580 a.m.
 Houston, TX 77030 713-792-4711 p.m.

CRUZAT, Gwendolyn S., Ph.D. (8/3/84)
 Professor of Library Science
 School of Library Science
 The University of Michigan
 Ann Arbor, MI 48109 313-763-1471

LOPEZ, John K. (8/3/87)
 Executive Vice President
 Medicaelectrographic
 Instrumentation, Inc.
 924 Borregas Avenue
 Sunnyvale, CA 94089 408-744-0300
 (Mailing Address:
 Box 2312, Stanford, CA 94305)

DeBAKEY, Lois E., Ph.D. (8/3/86)
 Professor of Scientific Communications
 Baylor College of Medicine
 1200 Moursund Street
 Houston, TX 77030 713-790-3185

MOLINE, David O., D.D.S. (8/3/86)
 Asst. Professor of Dentistry
 Dept. of Hospital Dentistry
 University of Iowa
 Hospital and Clinics
 Iowa City, IA 52242 319-356-2743

ECHELMAN, Shirley (8/3/85)
 Director
 Association of Research Libraries
 1527 New Hampshire Avenue, N.W.
 Washington, DC 20036 202-232-2466

EDWARDS, Charles C., M.D. (8/3/85)
 President
 Scripps Clinic and Research Foundation
 Keeney Park
 10666 N. Torrey Pines Road
 La Jolla, CA 92037 619-455-1187

MOLNAR, Charles E., Sc.D. (8/3/84)
 Director, Computer Systems Laboratory
 Lopata Hall
 Campus Box 1099
 Washington University
 St. Louis, MO 63130 314-889-4683

EX OFFICIO MEMBERSPrimary

BOORSTIN, Daniel J., Litt.D.
 Librarian of Congress
 Library of Congress
 10 First Street, S.E.
 Washington, DC 20540 202-287-5205

Alternate

WELSH, William J.
 Deputy Librarian of Congress
 Library of Congress
 James Madison Memorial Bg., Room 608
 10 First Street, S.E.
 Washington, DC 20540 202-287-5215

Board of Regents Roster (continued)

Primary

BRALLIAR, Max B., Lt. Gen., USAF, MC
Surgeon General
Department of the Air Force
Bolling Air Force Base
Washington, DC 20332 202-767-4343

Chief Medical Director
Veterans Administration
Dept. of Medicine and Surgery
810 Vermont Avenue, N.W.
Washington, DC 20420 202-389-2596

KOOP, C. Everett, M.D.
Surgeon General, PHS, and
Deputy Assistant Secretary for Health
200 Independence Avenue, S.W.
Washington, DC 20201 202-245-6467

MITTEMEYER, Bernhard, Lt. Gen., MC, USA
The Surgeon General
Department of the Army
Washington, DC 20310 202-697-1295

RABIN, Robert, Ph.D.
Actg. Asst. Director for Biological,
Behavioral, and Social Sciences
National Science Foundation
1800 G Street, N.W., Room 506
Washington, DC 20550 202-357-9854

SEATON, Lewis H., Vice Adm., MC, USN
Surgeon General.
Office of the Chief of Naval
Operations (OP-093)
Department of the Navy
Washington, DC 20350 202-697-0587

Alternate

CHONG, Vernon, Brig. Gen., USAF, MC
Commander
Malcolm Grow Medical Center
Andrews Air Force Base, MD 20331
301-981-3001

HAHN, James M. (142)
Director
Continuing Education Resources Services
Veterans Administration
810 Vermont Avenue, N.W., Room 875D
Washington, DC 20420 202-389-2581

ABDELLAH, Faye G., Ed.D., Sc.D.
Deputy Surgeon General, and
Chief Nurse Officer, PHS
Parklawn Building, Room 18-67
5600 Fishers Lane
Rockville, MD 20857 301-443-4000

HASTINGS, James E., Col., MC, USA
Chief, Graduate Medical Education Branch
Education and Training Division
U.S. Army Medical Department
Personnel Support Agency
Washington, DC 20314 202-693-5455

HAGEN, Donald F., Capt., MC, USN
Director, Education and Training Div.
Office of the Chief of Naval
Operations (OP-939)
Department of the Navy
Washington, DC 20350 202-653-1752

EXECUTIVE SECRETARY

SCHOOLMAN, Harold M., M.D.
Acting Director
National Library of Medicine
Bethesda, MD 20209 301-496-4725

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM) COUNCIL DATE: MAY 1984
 PROG. CLASS: NATIONAL LIBRARY OF MEDICINE
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R01 LM04122-01A1	COMPUTER REPRESENTATION AND USE OF MEDICAL KNOWLEDGE	01A1 48,000 02 50,880 03 53,933
1 R01 LM04127-01A1	DUALS SECONDARY REVIEW: MH HISTORICAL FOUNDATIONS OF MODERN PSYCHIATRY	01A1 25,050 02 25,050 03 25,550
1 R01 LM04164-01	DUALS SECONDARY REVIEW: AG MONOGRAPH ON MATHEMATICAL GERONTOLOGY	01 32,882 02 35,426
1 R01 LM04188-01A1	PACIFIC NORTHWEST MEDICAL CARE HISTORY PROJECT	01A1 15,210 02 15,563 03 16,808
1 R01 LM04217-01	DUALS SECONDARY REVIEW: HD WOMEN AND CHILDBIRTH IN AMERICA 1750-1950	01 24,844
1 R01 LM04220-01	FOUNDATIONS OF ENVIRONMENTAL NEUROTOXICOLOGY: A BOOK	01 14,660 02 16,520
1 R01 LM04228-01	GRECO-ROMAN NUTRITION ORIBASIIUS COLLECTIO MEDICA I-V	01 29,050 02 29,125
1 R01 LM04229-01	DUALS SECONDARY REVIEW: MH PSYCHIATRIC ETHNICS CASEBOOK: MODEL FOR CLINICAL ETHICS	01 28,176 02 29,585 03 31,064

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)

COUNCIL DATE: MAY 1984

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R01 LM04231-01	THE SULFA DRUGS: SCIENCE, MEDICINE, AND INDUSTRY	01 24,115 02 23,498
1 R01 LM04235-01	ABSTRACTS OF HEALTH CARE MACHINE-READABLE DATA FILES	01 35,342
1 R01 LM04237-01	DUALS SECONDARY REVIEW: DA COCAINE: AN ANNOTATED BIBLIOGRAPHY	01 68,389
1 R01 LM04240-01	A HISTORY OF CHRONIC DISEASE IN AMERICA, 1880-1914	01 28,869 02 30,608 03 32,441
1 R01 LM04250-01	EXPLORATIONS IN AMERICAN PSYCHOSOMATIC MEDICINE 1920-194	01 45,288
1 R01 LM04255-01	DUALS SECONDARY REVIEW: AI THE FIRST INTERNATIONAL MOSQUITO ECOLOGY WORKSHOP	01 27,145
1 R01 LM04259-01	MASS MEDIA AND HEALTH EDUCATION : THE SILENT FILM ERA	01 23,141
1 R01 LM04272-01	DUALS SECONDARY REVIEW: MH MELANCHOLY, GENIUS AND UTOPIA IN THE RENAISSANCE	01 900

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL - DUAL REVIEW 1/
 (ARRANGED NUMERICALLY)
 COUNCIL DATE: MAY 1984

AMOUNTS
 RECOMMENDED

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R01 AM34546-01	DUALS SECONDARY REVIEW: LM	01 41,654
		02 43,712
		03 45,799
1 R01 DA03252-01A2	DUALS SECONDARY REVIEW: LM	01A2 54,558
		02 23,737
1 R01 HL32884-01	DUALS SECONDARY REVIEW: LM	01 40,679
		02 52,500

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

PROG. CLASS:

TEMPORAL ARTERITIS DECISION MAKING MODELS AND STUDIES
 SOURCE GUIDE ON INHALANT ABUSE
 FRAMINGHAM STUDY MONOGRAPHS FOR 30 YEARS OF FOLLOWUP

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 PROG. CLASS: COUNCIL DATE: MAY 1984
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R23 LM04260-01	COMPUTER MEDICAL DECISION SUPPORT	01 33,750 02 35,338 03 37,099
1 R23 LM04261-01	AUTOMATED INFORMATION EXTRACTION FROM MEDICAL IMAGES	01 34,774 02 35,270 03 37,386

1/Approval recommendations are not final but are the basis upon which subsequent determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 PROG. CLASS: MAY 1984
 COUNCIL DATE:

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE	APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
	1 G08 LM04263-01	PRESERVING AND ORGANIZING THE W. HORSLEY GANTT PAPERS	01 53,179 02 57,423
	1 G08 LM04268-01	BLACK MEDICAL HISTORY COLLECTION	01 60,376 02 62,804 03 61,028
	1 G08 LM04271-01	SOUTH CAROLINA HEALTH INFORMATION NETWORK	01 185,813 02 117,750 03 51,800
	1 G08 LM04275-01	AN INTEGRATED ACADEMIC INFORMATION MANAGEMENT SYSTEM	01 77,198 02 84,053
	1 G08 LM04280-01	IAIMS DEVELOPMENT AT BAYLOR COLLEGE OF MEDICINE	01 56,103 02 59,409
	1 G08 LM04286-01	ELECTRONIC ACCESS TO REFERENCE SERVICES (EARS)	01 19,335 02 8,964

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations
 and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM) COUNCIL DATE: MAY 1984
 PROG. CLASS:

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 G07 LM03739-01A2	MEDICAL LIBRARY RESOURCE GRANT APPLICATION	01A2 4,000
1 G07 LM03901-01A1	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01A1 4,000
1 G07 LM04224-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT	01 4,210
1 G07 LM04232-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT	01 4,000
1 G07 LM04247-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 33,450
1 G07 LM04256-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 32,444
1 G07 LM04257-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,000
1 G07 LM04258-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 3,900

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
(ARRANGED NUMERICALLY BY PROGRAM) COUNCIL DATE: MAY 1984

PROG. CLASS:

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R43 LM04333-01	DUALS SECONDARY REVIEW: CA CANCER RESEARCH INFORMATION-EXCHANGE BULLETIN	01 13,750

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
(ARRANGED NUMERICALLY BY PROGRAM)
PROG. CLASS:

COUNCIL DATE: MAY 1984

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 G07 LM04266-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,000
1 G07 LM04267-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 22,441

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

B O A R D O F R E G E N T S

EXTRAMURAL PROGRAMS SUBCOMMITTEE MEETING

May 23, 1984

A T T E N D E E S

Subcommittee Members Present:

Dr. L. Thompson Bowles
Dr. Gwendolyn S. Cruzat
Dr. Lois E. DeBakey
Dr. Albert E. Gunn

Subcommittee Member Unable to Attend:

Brig. Gen. Vernon Chong

NLM Staff Present:

Dr. William G. Cooper, Associate Director, EP
Mr. Arthur J. Broering, Deputy Associate Director, EP
Mrs. Ruth Bortz, Grants Management Specialist, EP
Dr. Jeanne L. Brand, Chief, International Programs Branch, EP
Mr. Brian Campbell, Administrative/Grants Management Officer, EP
Mrs. Karin K. Colton, Committee Management Assistant, EP
Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP
Mrs. Rose Marie Holston, Program Analyst, EP
Mrs. Frances E. Johnson, Program Officer, EP
Mrs. M. Kathleen Nichols, Grants Management Specialist, EP
Mr. Richard T. West, Chief, Office of Program Planning and Evaluation, EP
Mr. Randall Worthington, Program Officer, EP
Ms. Lisa Tamaroff, Grants Clerk, EP

B O A R D O F R E G E N T S

L I S T E R H I L L C E N T E R S U B C O M M I T T E E

May 23, 1984

A T T E N D E E S

Subcommittee Members Present:

Dr. Charles C. Edwards
Dr. David O. Moline
Dr. Charles E. Molnar

Subcommittee Members Unable to Attend:

Dr. Faye G. Abdellah
Mr. John K. Lopez

NLM Staff Present:

Dr. Richard B. Friedman, Director, Lister Hill National Center for Biomedical
Communications
Dr. William Harless, Special Assistant to the Director, LHNCBC
Mr. B. Earl Henderson, Deputy Director, LHNCBC
Mr. Charles E. Herbert, Assistant Director for Program Planning and
Coordination, LHNCBC

National Library of Medicine Board of Regents
Lister Hill Center Subcommittee
Minutes of Meeting
May 23, 1984
3:00 - 4:15 p.m.

Present: Members of the Lister Hill Center Subcommittee
Dr. Edwards, Dr. Molnar, Dr. Moline

NLM Staff: Dr. Friedman, Mr. Henderson, Dr. Harless, Mr. Herbert

Dr. Edwards reviewed the discussion of the January subcommittee meeting and the recent meeting of the Board of Scientific Counselors. He asked Dr. Friedman to outline the current status of the LHCBC efforts to enhance its research program. Dr. Friedman reviewed his efforts to initiate a more rigorous research review process at LHCBC. He also detailed audiovisual development and service activities currently underway (particularly in the former NMAC areas). He noted the recent request made by the Board of Scientific Counselors asking for review of such projects and listing of criteria to be used for such evaluation.

Dr. Molnar pointed out the Board of Scientific Counselors is concerned that LHC research projects receive sufficient funding to make significant progress in major areas and that service projects not drain funds from research activities.

After extended discussion of possible Board of Regents' actions, the subcommittee weighed the advisability of suggesting the establishment of a committee to specifically review program emphasis at the Lister Hill Center and suggest appropriate policies. Staff agreed to prepare a suitable paragraph and review it with the subcommittee the next morning.

DEPARTMENT OF HEALTH AND HUMAN SERVICES

NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE

BOARD OF REGENTS
MINUTES OF THE 77TH MEETING
OCTOBER 18-19, 1984

BOARD ROOM
NATIONAL LIBRARY OF MEDICINE
BETHESDA, MARYLAND

DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE

THE BOARD OF REGENTS OF THE NATIONAL LIBRARY OF MEDICINE

Minutes of Meeting 1/ 2/
October 18-19, 1984

The Board of Regents of the National Library of Medicine was convened for its seventy-seventh meeting at 9:00 a.m. on Thursday, October 18, 1984, in the Board Room of the National Library of Medicine, Bethesda, Maryland. Dr. L. Thompson Bowles, Chairman of the Board of Regents, Dean for Academic Affairs and Professor of Surgery, The George Washington University Medical Center, presided. In accordance with P.L. 92-463 and the Determination of the Director, NIH, and as announced in the Federal Register on September 21, 1984, the meeting was open to the public from 9:00 a.m. to 3:30 p.m. on October 18 and from 9:00 a.m. to 11:25 a.m. on October 19. The meeting was closed from 11:25 a.m. to adjournment at 12:00 noon on October 19 for the review, discussion, and evaluation of grant applications. A Board roster is enclosed under Attachment A.

Board members present were:

Dr. L. Thompson Bowles
Dr. Lois E. DeBakey
Dr. Albert E. Gunn
Mr. Russell L. Fenwick (Member-designate) (October 19)
Dr. David T. Kingsbury (Ex officio)
Dr. C. Everett Koop (Ex officio) (October 18)
Mr. John Lopez
Dr. David O. Moline
Dr. Grant V. Rodkey (Member-designate)
Dr. Eugene A. Stead, Jr.

Alternates to ex officio members present were:

Dr. Faye G. Abdellah, representing Dr. C. Everett Koop.
Brig. Gen. Vernon Chong, USAF, MC, representing Lt. Gen. Max B. Bralliar.
Capt. Noel Dysart, representing Vice Admiral Lewis H. Seaton.
Mr. James M. Hahn, representing Dr. John A. Gronvall.
Col. James E. Hastings, representing Lt. General Bernhard Mittermeyer.
Mr. William J. Welsh, representing Dr. Daniel J. Boorstin.

Unable to attend:

Mrs. Shirley Echelman
Dr. Charles C. Edwards

1/For the record, it is noted that members absent themselves from the meeting when the Board is discussing applications from their respective institutions (interpreted to mean the entire system of which a member's institution is a part) or in which a conflict of interest might occur. Only when an application is under individual discussion will the Board member absent himself. This procedure does not apply to "en bloc" actions.

2/The Board of Regents, when considering the extramural programs of NLM, also constitutes and serves as the National Medical Libraries Assistance Advisory Board.

National Library of Medicine staff members attending this meeting included:

Dr. Donald A.B. Lindberg, Director
Mr. Kent A. Smith, Deputy Director
Dr. Harold M. Schoolman, Deputy Director for Research and Education
Mr. John Anderson, Director, Information Systems, OD
Dr. Jeanne Brand, Chief, International Programs Branch, EP
Mr. Arthur J. Broering, Deputy Associate Director for Extramural Programs
Mr. Kenneth Carney, Executive Officer, OD
Ms. Lois Ann Colaianni, Associate Director for Library Operations
Dr. William G. Cooper, Associate Director for Extramural Programs
Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP
Mr. B. Earl Henderson, Acting Director, Lister Hill National Center for
Biomedical Communications
Dr. Henry M. Kissman, Associate Director for Specialized Information
Services
Mr. Sheldon Kotzin, Chief, Bibliographic Services Division, LO
Mr. Robert B. Mehnert, Chief, Office of Inquiries and Publications
Management, OD
Mr. Stanley J. Phillips, Deputy Executive Officer, OD
Dr. Calvin Plimpton, Special Assistant for International Programs, OD
Mr. Arthur Robinson, EEO Coordinator
Mr. Mark J. Rotariu, Chief, Office of Financial Management, OD
Dr. Elliot R. Siegel, Special Assistant for Operations Research, OD
Mr. Richard T. West, Chief, Office of Program Planning and Evaluation, EP

Others present included:

Dr. Edward N. Brandt, Jr., Assistant Secretary for Health
Dr. James B. Wyngaarden, Director, NIH
Dr. William D. Mayer, President, Eastern Virginia Medical Authority
Norfolk--Consultant, NLM
Dr. Zora Griffio, Appeals Officer, NIH
Dr. Milton Gordon, Executive Secretary, Bacteriology and Mycology Study
Section, DRG, NIH
Dr. Darrel Gwinn, Program Officer, Bacterial and Virology Branch, NIAID

Members of the public present:

Mr. Jeff Christie, Reporter, "The Blue Sheet"
Ms. Janet Alberghini, Paralegal, Kaye, Scholar, Fierman, Hays & Handler

I. OPENING REMARKS

Dr. L. Thompson Bowles, Chairman, welcomed the Regents and guests to the 77th meeting of the Board of Regents. He welcomed especially Dr. Donald A.B. Lindberg, the Library's new Director, three newly appointed Regents: Mr. Russell L. Fenwick, Dr. Grant V. Rodkey, and Dr. Eugene A. Stead, Jr., and a new ex officio member, Dr. David T. Kingsbury of the National Science Foundation. Dr. Bowles also welcomed former Regent, Dr. William D. Mayer.

The Chairman, noting that biomedical knowledge continues to increase at a rapid pace, reaffirmed the importance of the Library to this enterprise. He pledged the full support of the Board to the Library in its efforts to improve information delivery services. Dr. Bowles identified three issues of particular importance. The first is that NIH and other government agency budgets will continue to be affected by the Federal deficit. NLM faces the difficult task of competing with other NIH components for its share. Second, because the Library is not widely known to the public (even to the professional community), we face a difficult job in competing for resources. Finally, the Library must resist the pressures to develop too many programs and services simultaneously. NLM cannot be all things to all sciences. As a result of these three issues, Dr. Bowles said the Library would do well to prepare a long-range plan to guide its policy in the coming two decades. Such a plan would help the Director and future Board members develop wise policies and to invest the limited resources that are likely to be available in programs of the highest priority. The Chairman said that the idea of a long-range plan will be introduced for discussion later in the meeting.

II. REPORT OF THE ASSISTANT SECRETARY FOR HEALTH

Dr. Edward N. Brandt, Jr., said that the Library was in good hands with the new Director, Dr. Lindberg, and the newly elected Chairman, Dr. Bowles. He acknowledged that a great debt of appreciation was owed to Dr. Harold M. Schoolman, who served as NLM Acting Director in the interregnum between the retirement of Dr. Cummings and the appointment of Dr. Lindberg. Dr. Brandt noted what has already been widely reported--that he is leaving his position at the end of this year to become the Chancellor of the University of Maryland, Baltimore campus. He agreed with Dr. Bowles' assessment of the current situation and heartily endorsed the idea of a long-range plan for the Library.

Dr. Brandt said it is his opinion that the recent demands for scientific accountability will continue--especially in such areas as laboratory animal research, human research, genetic engineering, and transplantation. He says that these demands should not be cause for alarm within the scientific community; they are legitimate concerns that science must face up to. The Library has an important role to play as it engages in those debates. He agrees that the Library is not as well known as it should be--people tend to think that the information they are retrieving at a terminal is somehow "coming out of that little box," and they forget (or don't know) that the source is the NLM, here in Bethesda. He endorsed the need for doing more to let colleagues know what the Library is doing and how it can serve them. In conclusion, Dr. Brandt said he is leaving with a great sense of satisfaction that the Library is on the right track and will continue to play an important role in American medicine.

III. CONSIDERATION OF MINUTES OF PREVIOUS MEETING

The Regents approved the minutes of the May 24-25, 1984, meeting without change.

IV. DATES OF FUTURE MEETINGS

The Board will meet next on January 24-25, 1985. The dates of June 6-7, 1985, were confirmed for the following meeting. The tentative dates of October 10-11, 1985, were selected for next fall's meeting.

V. REPORT OF THE DIRECTOR, NLM

Dr. Donald A.B. Lindberg expressed his pleasure at addressing the Regents for the first time. He praised the NLM staff and noted his particular appreciation for Dr. Schoolman and Mr. Smith who have helped him greatly. There will be an inevitable overlapping of previous and new commitments, but that will soon be ending. Dr. Lindberg reported to the Regents about the current budget and personnel situation. The reauthorization bill for the Medical Library Assistance Act has been passed (as part of a larger bill) by both houses of Congress and is awaiting the President's signature. The Library is currently operating under a Continuing Resolution at the level of \$50.22 million. If the FY 1985 budget becomes law, the amount for NLM will be \$55.9 million. The bulk of the increase over last year (\$3.5 million) will be used to fund programs under the Medical Library Assistance Act, especially in support of the IAIMS activity (which will be discussed in detail at tomorrow morning's session) and the medical informatics research programs. As to personnel, there is the possibility of Department or PHS-wide reductions in ceilings for full-time equivalents that would affect the Library. Dr. Lindberg noted several important additions to the LHC staff: Dr. Madeleine Graitson, Dr. Roy Rada, Dr. Larry Kingsland, and Dr. Dennis Fryback. On the minus side, he said, NLM will soon be losing the services of Dr. Calvin Plimpton as Assistant Director for International Programs, who is leaving to become President of the American University in Beirut.

In the area of legislation, besides the pending reauthorization of the Medical Library Assistance Act, there is a bill, H.R. 6049, that would create within the NLM a clearinghouse for consumer health education and information. The bill was introduced by Rep. Claude Pepper and it is not known whether it will be reintroduced in the next session.

The Director reminded the Regents that next month the directors and technical staff of the foreign MEDLARS Centers will be meeting at NLM. The Board's recommendations for a differential pricing policy for foreign users will be implemented at the meeting.

Dr. Lindberg reported that Dr. Schoolman held a meeting at NLM for database producers. In attendance were representatives of Chemical Abstracts, Excerpta Medica, and BIOSIS. The meeting was cordial and, although no problems were solved, there was a very healthy airing of opinions. Two specific topics were discussed: the desirability of reducing the costs of inputting data (duplicative indexing and abstracting) and the knotty problem of linking databases sponsored by different producers. On a separate matter, Dr. Lindberg briefly mentioned that the Office of Management and Budget and the Joint Committee on Printing are revising the policies governing Federal publishing. He noted the continuing problem of NLM in securing clearance to publish a catalog of its seventeenth century holdings.

The OMB Circular A-76, which requires that Government agencies rely on private companies to perform tasks whenever possible, is having a continuing impact on Federal activities. NLM has complied with the guidelines and has listed several functions for which the Library seeks the help of contractors, including indexing and cataloging.

Dr. Lindberg agreed with the Chairman's suggestion that the Library improve its public affairs programs; Dr. Lois DeBakey has agreed to help out in this area. The plan is to bring before the Regents in January an analysis of NLM's public affairs activities and a plan for the future. The other initiative suggested by Dr. Bowles--a long-range plan--is critical, said Dr. Lindberg. The first step should be a 20-year look at the future of medicine and technology; the second to lay out and refine the Library's options; the third to report these options to the Regents; and finally, the consideration by the Board and its subsequent strategy for implementation.

In closing, Dr. Lindberg listed the most important technologies to impact on biomedical communications: the microprocessor, telecommunications and networking, the optical digital disc, and artificial intelligence techniques. NLM is heavily involved in all four areas. The advent of full-text retrieval is an event that will have increasing importance for all libraries; although NLM was not at the forefront of its development, the Library must give serious thought how best to utilize it.

Dr. Lindberg noted that there will be a special briefing for the Regents in January concerning the history of NLM, the legal status of Regents, and a review of current NLM services.

Following Dr. Lindberg's presentation, there was a general discussion of the proposed 20-year plan. Mr. Welsh endorsed the idea of a long-range plan and gave several examples from his experience at the Library of Congress where such planning is crucial. Dr. Gunn and Dr. Moline also expressed support for such a plan. Former Regent Dr. William D. Mayer stated that one of the most important aspects of such planning is to determine the set of basic assumptions on which the planning will be based; finding the right people to take charge of the planning will be equally important. There were several comments by the Regents about the likelihood of increasing fees for library services and the need to take this into account in any planning. Mr. Welsh advised that NLM's basic services continue to be provided without charge; charges should be levied only for what he called "extended" services. He warned, however, that it would not be to the Library's advantage to take in fees that would offset the NLM appropriation. Also, the Library must keep close tabs on developments in the commercial area and relate its plans to these projected developments. Dr. Bowles noted the consensus among the Regents for the planning effort and said that a plan of action would be brought before the Board at their next meeting.

VI. REPORT OF THE DIRECTOR, NIH

Dr. James B. Wyngaarden thanked the Regents for their valuable service on behalf of the Library and NIH, and welcomed the new Board members. He said that Dr. Brandt's services as Assistant Secretary will be missed; many have regarded him as the best ever in that position.

Dr. Wyngaarden said the swearing-in ceremony for Dr. Lindberg was an impressive occasion, and he welcomed the new NLM Director to NIH. He briefly discussed the budget, now awaiting the President's signature. It contains an increase of about 15 percent for NIH and would be the third year in a row of substantially increased budgets. He pledged that NIH would protect the Library's interests in the face of Congressionally mandated increases for areas of high public visibility. Dr. Wyngaarden closed his remarks by thanking Dr. Schoolman and Mr. Smith for their leadership of the Library, and he also expressed his appreciation to Mr. Henderson who has been Acting Director of the Lister Hill Center since the resignation of its Director in July.

VII. INFORMATION DISSEMINATION AND RESEARCH ACCOUNTABILITY ACT AND NIH DIRECTOR'S ADVISORY COMMITTEE MEETING

Mr. Kent A. Smith, NLM Deputy Director, reported some of the highlights of last June's NIH Director's Advisory Committee meeting, attended by him and Dr. Bowles. One of the major topics was the use of animals in research and the best way to deal with the public's concerns in this area. There were several legislative proposals introduced to the last Congressional session concerning animal welfare: Senate Bill S.657, an amendment to the Animal Welfare Act by Sen. Robert Dole of Kansas, and House Bill H.R. 5098, the Information Dissemination and Research Accountability Act, by Rep. Robert Torricelli of New Jersey, both involved NLM to varying degrees. In the Dole proposal, the lead responsibility would rest with the Department of Agriculture, with the NLM cooperating with the National Agricultural Library to help establish an information service on improved methods of animal experimentation. The Torricelli bill, on the other hand, is far more prescriptive in intent. It decries redundant research involving animals and states that this occurs because of the present inefficient system for storing and retrieving biomedical information resulting from research. The bill calls for the establishment of a National Center for Research Accountability at NLM that would review all approved research proposals involving animal experimentation before Federal funds could be released. A full text literature search would be conducted to determine that the proposed research was not duplicative. Such a search would require that all published biomedical information first be put on optical disc; in addition, the bill calls for all foreign language biomedical research information to be translated into English so that this could be part of the full text database to be searched. There are about 25,000 applications for Federal funding of biomedical research each year, Mr. Smith said. The level of effort and the cost associated with implementing the Torricelli bill, should it ever become law, would be staggering. Many letters have been received from citizens in favor of it, however. In summary, Mr. Smith noted that although animal experimentation is necessary to biomedical research, alternative models should be explored. Also, humane use of laboratory animals should be insisted upon by NIH, and grantees should be required to adhere strictly to NIH guidelines. The NIH peer review system, he said, is adequate to review applications for unnecessary duplication of research. The present network operated by NLM is effective in disseminating information; future application of new technology will make it even more effective.

Following Mr. Smith's presentation, Dr. Bowles commented that the entire biomedical research enterprise has a stake in the outcome of the issue of laboratory animals in medical research. Because there is also the potential for a profound effect on the NLM, the Regents will monitor this situation

closely. The scientific community and individual Board members should "rebuild friendships" with representatives in Congress, Dr. Bowles said. He read parts of a letter that Dr. Wyngaarden has sent in response to inquiries from the public about animal welfare. Following the Chairman's comments, the Regents agreed that the letter from the NIH Director was judicious and an appropriate response on this sensitive subject. They further agreed that public education about the role of laboratory animals in medical research was necessary. When scientific advances are reported to the public, it is important to give due credit to the role of animals in the research.

VIII. NLM'S SESQUICENTENNIAL

Dr. Calvin H. Plimpton, NLM Special Assistant for International Affairs, reported on preliminary discussions by NLM staff on how the Library should observe its 150th anniversary in 1986. He solicited additional ideas from the Regents. One possibility is for the Board to have one of its 1986 meetings on a Monday, with a special celebration scheduled for Tuesday afternoon to be followed by a banquet that evening. He briefly described several other events that might take place. Following his presentation, the Chairman requested that the Regents give their suggestions individually to Dr. Plimpton. Dr. Schoolman commented that the celebration should be a year-long one, with a number of events going on at different times in different places.

IX. SUBCOMMITTEE APPOINTMENTS

The Chairman announced the following subcommittee appointments: Dr. Rodkey to the Extramural Programs Subcommittee, and Dr. Kingsbury and Col. Hastings to the Lister Hill Center Subcommittee. In addition, Dr. Bowles created an ad hoc working group to study the issue of NLM's public awareness activities. The members are Dr. DeBakey, Dr. Abdellah, Mr. Lopez, and Dr. Moline.

X. PRESENTATION OF AWARDS

The Chairman presented the 1984 Regents' Award for Scholarship and Technical Achievement to Dr. James H. Cassedy of the History of Medicine Division. Dr. Cassedy was honored for his scholarly work, particularly his recently published book, American Medicine and Statistical Thinking, 1800-1860 (Harvard University Press). The book was described as a major contribution to the history of science and to U.S. historical scholarship generally.

Dr. Lindberg presented the 1984 Director's Award to Mr. David Kenton of the Office of Computer and Communications Systems. Mr. Kenton was cited for his work in improving the Library's automated information retrieval service, especially for developing the precedent-setting capability of accounting for actual information delivered online, rather than the traditional accounting by time spent online.

XI. LIBRARY OF CONGRESS PROJECTS

Before the presentation by Mr. William Welsh, Deputy Librarian of Congress, Dr. Bowles announced to the group that Mr. Welsh was recently awarded an honorary doctor-of-laws degree by his alma mater, Notre Dame, for his significant contributions to librarianship and to society at large.

Mr. Welsh opened his presentation with several remarks related to subjects discussed earlier by the Regents. The image of a public institution is crucial to its success. Such activities of the Library of Congress as the issuance of a postage stamp ("A Nation of Readers"), the "Read More About It" program in cooperation with CBS, and special programs such as the recent George and Ira Gershwin concert, are all very important to enhancing the Library's public image. On another topic, that of support within the Congress, Mr. Welsh said that because some of the long-time supporters of the Library of Congress are no longer in office, the Library is planning to sponsor an institute that would "educate" the members of Congress about libraries. He noted that twice in his testimony before Congressional committees he held up NLM as a role model for libraries. He strongly supported the idea of strengthening NLM's activities to increase public awareness.

Mr. Welsh told the Regents about the Library of Congress' mass deacidification program at a new facility being built at Fort Detrick, Maryland. The facility will deacidify (and thus preserve) 500,000 books a year. Some volumes are too far deteriorated for deacidification, however, and we must collaborate to develop methods to save this material. Mr. Welsh discussed in this regard the potential of digital- and video-disc technology to help solve space problems and to serve as a permanent archival medium. The new compact discs, for example, can contain one hour of the highest quality audio. He described the Library's use of analog or video discs to store and retrieve nonprint material such as prints and photographs. Digital discs are being experimented with to store print material--the contents of some 300 books may be put on one disc. Seven video-disc stations are planned to be installed in the Library for patrons. The 13 most heavily used scientific/technical serials will be placed on the discs to gauge user reaction. At the present time, the Library will not use this technology to store the contents of monographs or books. The Library of Congress has appointed an advisory committee to look into the problem of copyright in regard to the new technology.

The last item discussed by Mr. Welsh was a study on the future of the book, done at the request of the Congress. The study was prompted by the notion that the computer would eventually replace the book. The conclusion of the study was that this is unlikely to occur. The book is alive and well, although there are two menaces--illiteracy and aliteracy. The latter is the recent phenomenon of reduced reading by various segments of the population, for example, those over 60. There is no single solution, but a massive across-the-board campaign should be mounted to reverse the trend. The report of the committee will be sent to the Congress on December 6.

Following Mr. Welsh's presentation, there was a discussion by the Regents about the permanence of the new disc medium and the attainable resolution of the stored images. The international ramifications were also discussed--next August the Library of Congress will host a conference of national librarians from around the world at which the new technology will be demonstrated. The

Regents concluded this portion of the agenda with a wide-ranging discussion about the impact of new technologies, including discs, on the information-seeking habits of the general public and the scientific community.

XII. DEMONSTRATION OF TIME PROJECT

Dr. William G. Harless of the Lister Hill Center conducted a special demonstration of the Technological Innovations in Medical Education (TIME) project. This project seeks to simulate a clinical situation by using such modern technology as microcomputers and voice-actuated video discs to aid the verisimilitude. The demonstration of the first such production ("The Case of Frank Hall") took place during the afternoon of Thursday (October 18); the discussion reported below occurred Friday morning.

Dr. Bowles commented that the technology-based prototype simulation demonstrated has the potential to be very valuable in medical education. This opinion met with both agreement and disagreement from various members of the Board. Dr. Moline and Dr. Abdellah agreed with this assessment, the latter suggesting that there should be a more prominent interdisciplinary aspect to the production. There was some criticism that the simulation was too slow paced. The educational benefits of its dramatic aspects were also questioned, some seeing the drama as distracting from learning, others as contributing to it. Dr. Bowles reminded the Regents that the prototype was a "first cut" and that the slow pacing was a recognized problem that would be corrected. The basic question, he said, is whether such a voice-controlled video-disc system is a promising technique for medical education. Mr. Lopez suggested NLM look into the possibility of joint funding with another agency for future TIME efforts. Dr. Schoolman commented that it was well within the Library's mandate to develop such prototypes. He emphasized that the prototype was never intended to be a finished product and that the primary lesson we are learning from it is how to exploit and demonstrate the technology for educational purposes. Dr. Kingsbury said he thought such interactive productions would be especially useful for second-year medical students; Dr. Moline agreed with this assessment. Even continuing education could benefit from this approach, he said, if the material were structured appropriately. Captain Dysart said that the evaluations received by NLM from field-testing will be extremely valuable; he agrees that the production needs refinement but he sees the TIME project as an appropriate developmental activity of the Library. Interpreting the sense of the discussion, and "recognizing that there is considerable variability in enthusiasm for the package," the Chairman said that the TIME project under discussion should be refined and completed and presented to the Board again at the January or May meeting.

XIII. UNVEILING OF PORTRAIT

The Regents were joined by Dr. Wyngaarden, other NIH officials, guests and NLM staff at a ceremony in the lobby of the Lister Hill Center to unveil a portrait of Dr. Martin M. Cummings, former NLM Director. The portrait was painted by the well-known artist, Herbert Abrams, whose commission was paid by current and former Regents as a token of their esteem for Dr. Cummings. The portrait will hang permanently in the Lister Hill Center lobby.

XIV. MEDLARS III

Mr. John Anderson, Director of Information Systems, summarized the history of the MEDLARS III development effort. He also discussed the prospect of NLM's need for more hardware capacity and announced that NLM's online services are now available through three national networks--TELENET, TYMNET, and the new UNINET.

Following this, Mr. John Cox, who directs the MEDLARS III project, reported on progress being made by Logicon, the MEDLARS III contractor. The scope of this contract had been described in some detail at the October 1983 Board meeting. Since the \$3.9 million contract was awarded on August 31, 1983, several important milestones have been passed: a Software Development Plan and a Requirements Specification were completed and accepted by NLM; a detailed software design was completed and is being reviewed by NLM; the contractor has installed on the NLM computer the Model 204 Data Base Management System; and a full complement of hardware, software, and communications devices is now operational to support software development and testing. Mr. Cox described in some detail the architecture of the MEDLARS III system being developed by the contractor. The current contract completion date for Phase I is September 30, 1985. Phase II (applications to support indexing, serial records, and subject authority control) and Phase III (document delivery, information retrieval, and other functions) are expected to be completed during the following two years.

Following Mr. Cox's presentation, Mr. Russell L. Fenwick, who has served as a consultant on the MEDLARS III project and is a Regent-designate, commented that the new system is being developed and executed well. The risks are controlled since no "frontier" technology is involved. The largest single risk in Phase I will be in the period July to September 1985, when certain parts of the data base management system will be tested under stress. The Phase I contract will result in useful products for NLM, regardless of further progress in Phases II and III. Mr. Fenwick said he is pleased that NLM is undertaking a parallel research effort to understand the needs of end users outside the NLM. This will have an important bearing on the design of the end-user inquiry system in Phase II. The production and quality control measurements being incorporated into Phase I are important for good management and for maintaining high quality information products. He agrees with the tactic of distributing functions into personal computers, but he warned that the main path of technologic development is likely to remain with main-frame computers, the heart of the MEDLARS operation.

In response to a question from Mr. Welsh, Mr. Anderson said that the life expectancy of MEDLARS III software was estimated to be seven years. Because all future improvement should be in the form of incremental enhancements, there is no prospective MEDLARS IV, he said. Dr. Lindberg commented that the one exception to such stepwise enhancement would be the advent of full-text retrieval, which the MEDLARS III system would not be able to handle.

XV. THE NIH PEER REVIEW APPEALS SYSTEM

Dr. Zora J. Griffio, NIH Appeals Officer, discussed the appeals system regarding the peer review of assistance applications (grants and cooperative agreements). NIH proposes to introduce the system on a trial basis early in

1985. She invited commentary and critique from Board members now and later as the system becomes operational. The system encompasses the entire peer review process and includes the full range of communications between the applicant and NIH from written expressions of concern about the process or substance of peer review to formal appeals, requesting reconsideration of the decisions.

The appeals process consists of two steps, the first of which involves the principal investigator and the respective Bureau/Institute/Division (BID), including the Division of Research Grants (DRG). Subsequently, if the principal investigator and the applicant institution disagree with the decision made at the BID level, they can appeal it to the NIH Deputy Director for Extramural Research and Training.

The intent to implement and broadly publicize a well-defined and uniform appeals system acknowledges the fact that staff and reviewers occasionally make mistakes and that NIH is prepared to give appropriate attention to charges of real or perceived shortcomings in the process or substance of peer review. Capitalizing on the already well functioning practices established in the Institutes for handling rebuttal letters, the proposed two-level approach recognizes each BID's prerogative to resolve disputes in its own area and, secondly, gives the applicant institution the opportunity for having its concerns reexamined by individuals who were not responsible for the initial decision.

The appeals system will not impose funding decisions upon the Institutes, which are the prerogative of the BID directors upon advice from their National Advisory Council or Board, nor will it supersede or bypass the peer review process. If the scientific review is found to have been deficient, the application will be re-reviewed by an appropriate (same or another) initial review group. The final common pathway for a disputed application will continue to proceed through the National Advisory Council or Board.

Of the several principles underlying the appeals system, Dr. Griffo highlighted the most important:

- o NIH staff responses to rebuttals or appeals must be "in kind"; i.e., they must match the applicant's rebuttal or appeal both in terms of the care given to the ensuing examination of the underlying issues and to the subsequent communication with the applicant regarding the basis for the BID's decision.
- o The appeals system provides an opportunity to redress failures in the peer review process caused by NIH staff or the reviewers, but not to repair shortcomings in the application caused by the principal investigator. For the latter problem, an amended application continues to be the only available remedy.
- o If a consensus cannot be reached by the NIH leadership regarding validity of an appeal, then their collective doubt will suffice for considering the appeal as valid and treating it in an affirmative manner.

While a transient increase in both rebuttals and appeals is expected to occur shortly after the system has been announced to the scientific community, a greater familiarity with its purpose and operational aspects should subsequently limit its use to manageable proportions.

XVI. REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS

Dr. William G. Cooper reviewed the Extramural Programs budget, noting that the figures were on target with the FY 1984 projections of \$7.5 million--90 grants and seven RML contracts were awarded for a total of \$7,493,000. The FY 1985 President's Budget for the Medical Library Assistance Act (MLAA) is \$7.5 million. Since the reauthorization bill for the MLAA has not been signed, there is no news on an increase in MLAA funding.

Dr. Cooper gave a brief review of the Integrated Academic Information Management Systems (IAIMS) initiative which had its very beginnings in the recommendations made in the 1971 Stead Report. In 1982, these recommendations were incorporated and extended in the NLM-sponsored study by the Association of American Medical Colleges. The study identified the need for information technologies in the academic health sciences and hospitals and the role of the library in information management. It became the basis for extensive discussions in the academic and library communities and served as a focal point on the agenda of major association meetings during the past two years. In early 1984, contract awards for the planning of prototypes were made to Georgetown University, Columbia University, the University of Maryland, and the University of Utah. In addition, Congress awarded specific funds for a fifth NLM contract to the Oregon Health Sciences University for the development of an IAIMS. In response to an earlier RFA (Request for Application), two IAIMS grant awards were also made to the University of Cincinnati Medical Center and the Baylor College of Medicine. It is hoped that in response to the reissued RFA last July, which was distributed widely throughout the community, IAIMS applications will be received by the November 1 deadline for either planning grants or for the second phase-- development grants. This follows the sequence of the three phases originally outlined by NLM: planning, model development, and implementation of full-scale development of a total integrated system.

On October 16, representatives of institutions working on IAIMS came together at NLM to share ideas with one another and NLM staff. The meeting turned into a very productive three-hour exchange. The following day, a symposium was held in the Lister Hill Center Auditorium to which key representatives of academic health centers, professional associations, foundations, and private industry had been invited. Over 170 people attended from 76 institutions and 32 states. There was an intensive interchange of ideas after presentations of progress reports with lively audience participation. Proceedings will be published and submitted to the Board of Regents before the January meeting.

MEETING CLOSED FOR THE REVIEW OF GRANT APPLICATIONS - 11:25 A.M., October 19

XVII. REVIEW OF PENDING APPLICATIONS

Before proceeding with the consideration of pending applications, Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP, informed Board members of confidentiality and conflict-of-interest procedures and reminded them to sign, at the conclusion of the grant application review, the statement

that they had not participated in the discussion of any application where conflicts of interest might occur.

The Board concurred with the recommendations of the Extramural Programs Subcommittee which met on October 17. A total of 56 applications was reviewed of which 27 were recommended for approval and 25 for disapproval. Four applications were deferred. Grant applications recommended for approval by the Board are listed in the summary actions (Attachment B). Interim actions taken by Extramural Programs staff since the May Board meeting were noted.

XVIII. ADJOURNMENT

The meeting was adjourned at 12:00 noon, Friday, October 19, 1984.

* * * * *

Wednesday, October 17, 1984, 2:00 to 4:00 p.m.
(EP Subcommittee--List of Attendees under Attachment C)

* * * * *

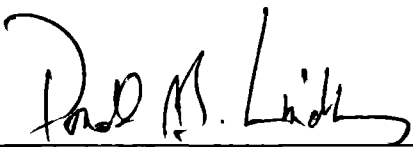
ACTIONS TAKEN BY THE BOARD OF REGENTS

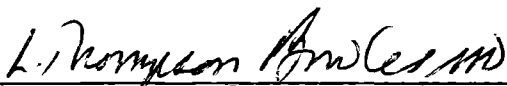
1. Following recommendations by the Chairman and the NLM Director, the Board agreed with suggestions for a long-range plan to guide the Library in the next two decades. A plan of action will be discussed at the January Board meeting.
2. The Chairman made the following subcommittee appointments:

Dr. Rodkey to the Extramural Programs Subcommittee, and Dr. Kingsbury and Col. Hastings to the Lister Hill Center Subcommittee. In addition, Dr. Bowles created an ad hoc working group to study the issue of NLM's public awareness activities. The members are Dr. DeBakey, Dr. Abdellah, Mr. Lopez, and Dr. Moline.
3. The Chairman presented the 1984 Regents' Award for Scholarship and Technical Achievement to Dr. James H. Cassedy of the History of Medicine Division.
4. The Board concurred with the recommendations of the Extramural Programs Subcommittee. Grant applications recommended for approval are listed in the summary actions (Attachment B).

* * * * *

I hereby certify that, to the best of my knowledge, the foregoing minutes and attachments are accurate and complete.

 11/21/84
 Donald A.B. Lindberg, M.D. (Date)
 Executive Secretary

 12-4-84
 L. Thompson Bowles, M.D., Ph.D. (Date)
 Chairman

BOARD OF REGENTS OF THE NATIONAL LIBRARY OF MEDICINECHAIRMAN

BOWLES, L. Thompson, M.D., Ph.D. (8/3/86)
 Dean for Academic Affairs and
 Professor of Surgery
 The George Washington University
 Medical Center
 2300 I Street, N.W. #713
 Washington, DC 20037 202-676-3501

DeBAKEY, Lois E., Ph.D. (8/3/86)
 Professor of Scientific Communications
 Baylor College of Medicine
 1200 Moursund Street
 Houston, TX 77030 713-790-3185

ECHELMAN, Shirley (8/3/85)
 Director
 Association of Research Libraries
 1527 New Hampshire Avenue, N.W.
 Washington, DC 20036 202-232-2466

EDWARDS, Charles C., M.D. (8/3/85)
 President
 Scripps Clinic and Research Foundation
 Keeney Park
 10666 N. Torrey Pines Road
 La Jolla, CA 92037 619-455-1187

FENWICK, Russell L. (8/3/88)
 Senior Vice President
 Bank of America
 1455 Market Street
 San Francisco, CA 94103 415-622-4935

GUNN, Albert E., M.D. (8/3/87)
 Medical Director
 Rehabilitation Center
 University of Texas/M.D. Anderson
 Hospital and Tumor Institute
 6723 Bertner Avenue 713-792-3580 a.m.
 Houston, TX 77030 713-792-4711 p.m.

LOPEZ, John K. (8/3/87)
 Executive Vice President
 Medicalectrographic
 Instrumentation, Inc.
 924 Borregas Avenue
 Sunnyvale, CA 95098 408-744-0300
 Mailing Address:
 Box 2312, Stanford, CA 94305

MOLINE, David O., D.D.S. (8/3/86)
 Asst. Professor of Dentistry
 Dept. of Hospital Dentistry
 University of Iowa
 Hospital and Clinics
 Iowa City, IA 52242 319-356-2743

RODKEY, Grant V., M.D. (8/3/88)
 Assoc. Clinical Professor of Surgery
 Harvard Medical School
 25 Shattuck Street
 Boston, MA 02115 617-742-4180
 Mailing Address:
 Zero Emerson P.Tace
 Boston, MA 02114

STEAD, Eugene A., Jr., M.D. (8/3/88)
 Prof. Emeritus of Medicine
 Duke University, and
 Distinguished Physician
 Veterans Administration
 Duke Hospital - P.O. Box 3910
 Durham, NC 27710 919-684-6587

EX OFFICIO MEMBERSPrimary

BOORSTIN, Daniel J., Litt.D.
 Librarian of Congress
 Library of Congress
 10 First Street, S.E.
 Washington, DC 20540 202-287-5205

Alternate

WELSH, William J., LL.D.
 Deputy Librarian of Congress
 Library of Congress
 James Madison Memorial Bldg., Room 608
 10 First Street, S.E.
 Washington, DC 20540 202-287-5215

Board of Regents Roster (Continued)

Primary

BRALLIAR, Max B., Lt. Gen., USAF, MC
Surgeon General
Department of the Air Force
Bolling Air Force Base
Washington, DC 20332 202-767-4343

GRONVALL, John A., M.D.
Acting Chief Medical Director
Veterans Administration
Dept. of Medicine and Surgery
810 Vermont Avenue, N.W.
Washington, DC 20420 202-389-2596

KOOP, C. Everett, M.D.
Surgeon General, PHS, and
Deputy Assistant Secretary for Health
200 Independence Avenue, S.W.
Washington, DC 20201 202-245-6467

MITTEMEYER, Bernhard, Lt. Gen., MC, USA
The Surgeon General
Department of the Army
Washington, DC 20310 202-697-1295

KINGSBURY, David T., Ph.D.
Asst. Director for Biological,
Behavioral, and Social Sciences
National Science Foundation
1800 G Street, N.W., Room 506
Washington, DC 20550 202-357-9854

SEATON, Lewis H., Vice Adm., MC, USN
Surgeon General
Office of the Chief of Naval
Operations (OP-093)
Department of the Navy
Washington, DC 20350 202-697-0587

Alternate

CHONG, Vernon, Brig. Gen., USAF, MC
Commander
Malcolm Grow Medical Center
Andrews Air Force Base, MD 20331
301-981-3001

HAHN, James M. (142)
Director
Continuing Education Resources Services
Veterans Administration
810 Vermont Avenue, N.W., Room 875D
Washington, DC 20420 202-389-2581

ABDELLAH, Faye G., Ed.D., Sc.D.
Deputy Surgeon General, and
Chief Nurse Officer, PHS
Parklawn Building, Room 18-67
5600 Fishers Lane
Rockville, MD 20857 301-443-4000

HASTINGS, James E., Col., MC, USA
Chief, Graduate Medical Education Branch
Education and Training Division
U.S. Army Medical Department
Personnel Support Agency
Washington, DC 20314 202-693-5455

DYSART, Noel, Capt., MC, USN
Asst. for Professional Training
Office of the Chief of Naval
Operations (OP-939D)
Department of the Navy
Washington, DC 20350 202-653-1752

EXECUTIVE SECRETARY

LINDBERG, Donald A. B., M.D.
Director
National Library of Medicine
Bethesda, MD 20209 301-496-4725

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM) _____
 COUNCIL DATE: SEPT./OCT. 1984
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE
 PROG. CLASS:

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
2 R01 LM03707-04	PREPARATION OF BERGEY'S MANUAL	04 17,105 05 17,600
1 R01 LM04068-01A1	PREPARATION OF A BIOGRAPHY OF CHARLES RICHTER	01A1 23,050 02 11,585
1 R01 LM04208-01	MEDIAEVAL MEDICAL TEXTS ON LOVESICKNESS	01 12,483
1 R01 LM04225-01	HISTORY OF PANDEMIC INFLUENZA: 18TH AND 19TH CENTURIES	01 45,733
1 R01 LM04251-01	AUTOMATED MEDICAL INFORMATION AND DIAGNOSTIC SYSTEM	01 94,956 02 79,580 03 81,063
1 R01 LM04293-01	TRANSLATION OF JACOB WOLFF'S BOOK ON CANCER	01 14,475
1 R01 LM04306-01	PRACTICAL METHODS TO MODIFY PHYSICIAN TEST ORDERING	01 22,801
1 R01 LM04307-01	DUALS SECONDARY REVIEW: HD SURVEY RESEARCH IN SAN FRANCISCO'S CHINATOWN: COMPLETION	01 51,548 02 5,037

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 PROG. CLASS: COUNCIL DATE: SEPT./OCT. 1984

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R01 LM04311-01	SUPPORT FOR WRITING A HISTORY OF TRUDEAU SANATORIUM	01 2,191 02 1,962
1 R01 LM04313-01	TISSOT; THE CAREER OF A PHYSICIAN OF THE ELIGHTENMENT	01 24,400 02 13,200
1 R01 LM04321-01	A FEEDBACK PROGRAM TO IMPROVE DIAGNOSTIC JUDGEMENTS	01 128,281 02 112,788 03 55,525
1 R01 LM04324-01	THE MODULAR NATURE OF LEARNING	01 42,944
1 R01 LM04327-01	BIOMEDICAL SCIENTISTS AND PATENTS	01 30,841 02 30,395 03 29,662
1 R01 LM04330-01	DUALS SECONDARY REVIEW: RR CHIMPANZEE BIBLIOGRAPHY, THIRD EDITION	01 16,134

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL - DUAL REVIEW 1/
(ARRANGED NUMERICALLY)
COUNCIL DATE: SEPT./OCT. 1984

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R01 HD19698-01	DUALS SECONDARY REVIEW: LM RESEARCH ARCHIVE FOR EARLY TRAINING PROJECT	01 28,368 02 11,637
1 R01 HD19890-01	DUALS SECONDARY REVIEW: LM USSR POPULATION GROWTH AND ITS SOCIETAL IMPACT: 1897-19	01 50,986 02 55,365 03 61,548

1Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM) 1
 COUNCIL DATE: SEPT./OCT. 1984
 PROG. CLASS:
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 R23 LM04316-01	EXPLANATION OF COMPUTER-ASSISTED THERAPY PLANS	01 37,500 02 37,487 03 32,454

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
 (ARRANGED NUMERICALLY BY PROGRAM)
 COUNCIL DATE: SEPT./OCT. 1984
 INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE
 PROG. CLASS:

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
3 G07 LM03955-02S1	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	02S1 4,184
1 G07 LM04265-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 14,810
1 G07 LM04295-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,125
1 G07 LM04299-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 3,900
1 G07 LM04301-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,000
1 G07 LM04308-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,000
1 G07 LM04309-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,150
1 G07 LM04310-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,000

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations
 and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
(ARRANGED NUMERICALLY BY PROGRAM)
COUNCIL DATE: SEPT./OCT. 1984

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 G07 LM04329-01	MEDICAL LIBRARY RESOURCE IMPROVEMENT GRANT	01 4,200

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

APPLICATIONS APPROVED BY COUNCIL 1/
(ARRANGED NUMERICALLY BY PROGRAM)
COUNCIL DATE: SEPT./OCT. 1984

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER	PROJECT TITLE	AMOUNTS RECOMMENDED
1 G08 LM04297-01	CLINICAL CONSULTANT TO UNDERSERVED END-USERS	01 62,144 02 56,913

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.

B O A R D O F R E G E N T S

EXTRAMURAL PROGRAMS SUBCOMMITTEE MEETING

October 17, 1984

A T T E N D E E S

Subcommittee Members Present:

Brig. Gen. Vernon Chong
Dr. Lois E. DeBakey
Dr. Albert E. Gunn

NLM Staff Present:

Dr. William G. Cooper, Associate Director, EP
Mr. Arthur J. Broering, Deputy Associate Director, EP
Mrs. Ruth Bortz, Grants Management Specialist, EP
Dr. Jeanne L. Brand, Chief, International Programs Branch, EP
Mr. Brian R. Campbell, Administrative/Grants Management Officer, EP
Mrs. Karin K. Colton, Committee Management Assistant, EP
Dr. Roger W. Dahlen, Chief, Biomedical Information Support Branch, EP
Mrs. Rose Marie Holston, Program Analyst, EP
Mrs. Frances E. Johnson, Program Officer, EP
Mrs. M. Kathleen Nichols, Grants Management Specialist, EP
Mr. Richard T. West, Chief, Office of Program Planning and Evaluation, EP
Mr. Randall Worthington, Program Officer, EP
Ms. Lisa Tamaroff, Grants Clerk, EP