AGENDA
56th Meeting of the
BOARD OF REGENTS
9:00 a.m., January 27-28, 1977
Board Room
National Library of Medicine

ETING OPEN: All day on January 27 and from 9:00 to 9:45 a.m. on January 28. From 9:45 a.m. to adjournment on January 28 for the review of grant applications.

CALL TO ORDER AND INTRODUCTORY REMARKS
Dr. Joseph F. Volker

REMARKS BY THE DIRECTOR, NIH
Dr. Donald S. Fredrickson

CONSIDERATION OF MINUTES OF LAST MEETING
Dr. Joseph F. Volker

DATES OF FUTURE MEETINGS
1977 and 1978 Calendars
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Next Meeting: May 19-20, 1977 (Th-F)
Fall Meeting: October 6-7, 1977 (Th-F)
Selection of Dates for Winter 1978 Meeting
January 26-27 (Th-F) or February 2-3 (Th-F)

NOTE: 74th AMA Annual Conference on Medical Education
February 1-6, 1978, Palmer House, Chicago

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TAB III
Dr. Martin M. Cummings

COFFEE BREAK

1/3/77
I. TRANSFER OF RESEARCH RESULTS INTO PRACTICE

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III. REPORT ON THE TOXIC SUBSTANCES CONTROL ACT

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Mr. Davis B. McCarn
Mr. Alfred R. Zipf, Discussant

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XI. IMPLICATION OF HEALTH MANPOWER ACT OF 1976 FOR THE LIBRARY

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TAB X

Dr. Harold M. Schoolman

RECESS

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DINNER .................................................. Bethesda Naval Officers' Club
Cocktails (Cash Bar): 6:30 p.m. ........................ 8901 Wisconsin Avenue
Dinner (Dutch Treat): 7:30 p.m. ...................... "Patio Room"

SPEAKER: Dr. Daniel J. Boorstin
Librarian of Congress

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RECONVENE: 9:00 a.m., January 28, 1977
III. REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS

A. DRG Administrative Report TAB XI

B. Policy on Production of Curriculum Materials TAB XII

C. Review of Board Operating Procedures--"Guidelines for Adjustments by Staff in Time and Amount of Grant Award"

IV. INTERIM PROGRESS REPORT ON AHEC DEVELOPMENTS TAB XIV

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MEETING CLOSED FOR REVIEW OF GRANT APPLICATIONS

V. SPECIAL APPLICATIONS (Gray Workbook)

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B. Resource TAB II

C. Publication TAB III

Dr. Roger W. Dahlen
Dr. Jeanne L. Brand

VI. SUMMARY STATEMENTS

A. Research TAB IV

B. Resource TAB V

C. Special Scientific Project TAB VI

D. Training TAB VII

E. Publication TAB VIII

Dr. Roger W. Dahlen
Dr. Jeanne L. Brand

VII. ADJOURNMENT

Dr. Joseph F. Volker
The Board of Regents of the National Library of Medicine was convened for its fifty-sixth meeting at 9:00 a.m. on Thursday, January 27, 1977, in the Board Room of the National Library of Medicine, Bethesda, Maryland. Dr. Joseph F. Volker, Chancellor, University of Alabama System, and Chairman of the Board of Regents, presided. In accordance with P.L. 92-463 and the Determination of the Director, NIH, and as announced in the Federal Register on December 15, 1976, the meeting was open to the public from 9:00 a.m. to 5:00 p.m. on January 27, and from 9:00 to 10:15 a.m. on January 28, and closed from 10:15 to 11:00 a.m. on January 28 for the review, discussion, and evaluation of grant applications. A Board roster is included under Attachment "A."

Board members present were:

Vice Admiral Willard P. Arentzen (January 27)
Dr. Eloise E. Clark (January 28)
Dr. S. Paul Ehrlich (January 27)
Dr. Joseph F. Volker

Alternates to Board members present were:

Dr. Faye G. Abdellah, representing Dr. S. Paul Ehrlich, Jr. on January 28
Brig. General Ernest J. Clark, representing Lt. General George E. Schafer
Rear Admiral J. William Cox (January 27)
Dr. William D. Mayer, representing Dr. John D. Chase
Mr. William J. Welsh, representing Dr. Daniel J. Boorstin (January 27)

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. Martin M. Cummings, Director
Mr. Melvin S. Day, Deputy Director
Dr. Harold M. Schoolman, Assistant Deputy Director
Dr. Ernest M. Allen, Associate Director for Extramural Programs
Mr. Harry D. Bennett, Acting Associate Director for Computer and Communications Systems
Dr. Lionel M. Bernstein, Special Assistant to the Director, LHN CBC
Dr. Jeanne L. Brand, Chief, International Programs Division, EP
Dr. Charles F. Bridgman, Assistant Director for Educational Resources Development
Mr. Arthur J. Broering, Deputy Associate Director for Extramural Programs
Dr. Roger W. Dahlen, Chief, Division of Biomedical Information Support, EP
Dr. Kenneth M. Endicott, Acting Director, Lister Hill National Center for Biomedical Communications
Mr. Benjamin Erdman, Deputy Director, LHN CBC
Dr. Melvin J. Josephs, Chief, Technical Files Implementation Branch, SIS
Dr. Henry M. Kissman, Associate Director for Specialized Information Services
Dr. Joseph Leiter, Associate Director for Library Operations
Mr. Davis B. McCarn, Special Assistant for Science Communications (Planning)
Mr. Robert B. Mehnert, Chief, Office of Inquiries and Publications Management
Dr. George E. Mitchell, Director, National Medical Audiovisual Center
Mr. Kent A. Smith, Assistant Director for Administration
Dr. James M. Stengle, Deputy Director for Medical Affairs, LHN CBC
Mr. Richard T. West, Chief, Office of Program Planning and Evaluation, EP
Dr. Harold A. Wooster, Special Assistant for Program Development, LHN CBC

Others present included:

Dr. Donald S. Fredrickson, Director, NIH
Dr. Fred C. Cole, President, Council on Library Resources, Inc.
Mrs. Bernice M. Hetzner, Professor of Library Science, University of Nebraska Medical Center--Consultant, NLM
Dr. Saul Jarche, Editor in Chief (Retired), New York Academy of Medicine--Consultant NLM
Dr. Ralph G. Mender, Deputy Director (Research Administration) (Retired), Massachusetts General Hospital--Consultant, NLM
Dr. Doris H. Merritt, Dean, Office of Research and Sponsored Programs, Indiana-Purdue University at Indianapolis--Consultant, NLM
Mr. Wallace C. Olsen, Deputy Director for Library Services, NAL
Dr. Seymour Perry, Special Assistant to the Director, NIH
Dr. Stewart G. Wolf, Jr., Director, Marine Biomedical Institute--Consultant, NLM
Mr. Alfred R. Zipf, Executive Vice President and Senior Administrative Officer (Retired), Bank of America--Consultant, NLM

Members of the public present:

Mr. Jeff Christy, Report, "The Blue Sheet"
Mr. Wayne Kelly, Legislative Analyst, Washington Representative Services
I. OPENING REMARKS

Dr. Joseph F. Volker, Chairman, welcomed the Regents, consultants, and guests to the 56th meeting of the Board of Regents of the National Library of Medicine. He noted the presence of the new Surgeon General of the Navy, Vice Admiral Willard P. Arentzen, and he thanked the ex officio members and the consultants whose service has made it possible for the Board to function in the absence of appointed members.

II. CONSIDERATION OF MINUTES OF PREVIOUS MEETING

The Board approved the minutes of the meeting of September 23-24, 1976.

The Board corrected an error in Attachment "C" of the June 10-11, 1976, minutes. The first sentence in the third paragraph of page four was amended to read: "It is impractical for NLM to give consideration to estimates of quality in acquiring printed literature for the collection."

III. DATES FOR FUTURE MEETINGS

The Board approved the dates of May 19-20, 1977, for the next meeting, and confirmed October 6-7, 1977, for the subsequent meeting. January 26-27, 1978, were approved tentatively for the following meeting.

IV. REPORT OF THE DIRECTOR, NIH

Dr. Fredrickson reported that he has recently had two meetings with the new HEW Secretary, Mr. Joseph A. Califano, Jr. Although his own status as NIH head is in limbo, Dr. Fredrickson is confident that the agency heads will have greater access to the Secretary and Under Secretary and that the new administration in HEW will bring strong management to the Department.

Dr. Fredrickson discussed with the Board the need to improve the research process as it affects the costs and distribution of health care services. NIH can be a leader in the area between the development of new knowledge and techniques and their application in actual practice. This "translation" activity can greatly affect costs and the quality of health care services. We need to develop a mechanism for arriving at a "technical consensus" on what the probable effects on cost and quality will be of new techniques and knowledge that have practical application to health care. He mentioned as examples mammography and CAT scanners. Part of the processes of evaluation, validation, and application, Dr. Fredrickson said, is the need to improve the process of information dissemination. The assessment of new technology is a complicated concept involving many social, political, and economic considerations. There is no efficient way, at present, to get this kind of information to the practicing physician and to the public. If NIH is to play a larger role in solving the problems of "translation," we will have to take maximum advantage of the expanded resources that will be made available when the Library's new Lister Hill Center is constructed.
Between now and the construction of the Center we must plan carefully so that the Library can continue to develop its role as an "institute of communications" for all facets of American medicine. Without infringing on the Library's "sovereignty and autonomy," Dr. Fredrickson hopes it will be possible for NLM to increase its interactions with the institutes and divisions of NIH and with other Federal agencies.

Dr. Fredrickson also discussed with the Regents the growing problem of setting standards for medical care. This will become even more important as we get closer to a "single fiduciary" for all health care. Who will set the standards? PSROs? Federal regulatory agencies such as the FDA? The FDA's method of setting standards through the Federal Register is not feasible for setting standards to apply to health care broadly. The problem of setting standards for one kind of research is with us right now—research involving recombinant DNA. It is difficult, even in the relatively small arena of research involving recombinant DNA, to find the middle ground between the need for assuring public safety and the need to avoid unwarranted encroachment on research.

Dr. Fredrickson reported that the Toxic Substances Control Act, passed by Congress last year, has profound implications for NIH, especially the National Cancer Institute, the National Institute of Environmental Health Sciences, and the Library. The Library's Toxicology Information Program should be improved and expanded, Dr. Fredrickson said, so that it can be of assistance to the Environmental Protection Agency (the agency with primary responsibility for implementing the new Act). We should not agree to EPA's taking over this NLM program, however. Dr. Cummings commented that in expanding programs to meet new needs, like the Toxic Substances Control Act, space will not be a problem. The new Lister Hill Center facility will be equal to any foreseeable needs. The problem will be one of having the required number of people to do the job.

Dr. Mayer asked Dr. Fredrickson about the pressing issue of Presidential appointments to the Board of Regents. Dr. Fredrickson said that NIH was sending to Secretary Califano comments about the advisory committee process in general and the NLM Board of Regents' situation in particular. Dr. Fredrickson said that, in his meetings with the new Secretary, Mr. Califano was sympathetic to the plight of the Board and promised that nominations would not be held up by the Department. Dr. Volker noted that he will be a member of the Board only through the next meeting and that it is important to provide a transition period for new Regents. They will need to be briefed about the Library's programs and the Board's function in providing guidance and direction to the Library.

V. REPORT OF THE DIRECTOR, NLM

At Dr. Cummings' request, the Board of Regents observed a moment of silence in memory of Dr. Robert M. Bird, Director of the Lister Hill National Center for Biomedical Communications, who died on December 31, 1976.

Dr. Cummings introduced to the Regents several new NLM staff members: Dr. Kenneth M. Endicott, Acting Director of the Lister Hill Center; Dr. Lionel M. Bernstein who will work in the Lister Hill Center on the problem of technology transfer; and Dr. Melvin J. Josephs, Chief of the Technical Files Implementation Branch, Specialized Information Services. Dr. Cummings announced the creation of a centralized planning
function in the Library, to be headed by Mr. Davis B. McCarn, formerly Acting Associate Director for Computer and Communications Systems. He also noted that Miss Mary Corning, NLM Assistant Director for International Programs, has been appointed a Federal Executive Fellow by the Brookings Institution for a six-month period.

With respect to the budget, Dr. Cummings reported that NLM has done well in its appropriation. There is no concomitant increase in staff for 1977-1978, however. The Library has managed to keep abreast of rising workload levels by using new procedures and technologies. We should be cautious about assuming new responsibilities until there is an alleviation of the restrictions on manpower. Dr. Cummings noted that the Medical Library Assistance Act comes up for renewal by the Congress this year. No problems are foreseen, although we do not know for how many years it may be extended. He also "closed the books" on the copyright issue by reporting to the Regents on several of the pertinent sections of the new Copyright law, passed last year by Congress.

Mr. Kent A. Smith, NLM Assistant Director for Administration, reported on the opening of bids on January 26 for construction of the Lister Hill Center. There were 17 offerors with bids ranging from $13.6 to $16.18 million. The low bidder was the George Hyman Construction Company. An award for construction should be made in March, with completion of the building scheduled for the fall of 1979. An NLM Renovation Committee has been established to plan for reconverting space in the present facility to library use. Mr. Smith reported that a Fine Arts Committee for the Lister Hill Center has also been established to work with the General Services Administration and the National Endowment for the Arts to review art and sculpture for the new building. The Regents were invited to submit any ideas they might have on the subject of art and sculpture. A fire and life safety report has been received from a consulting firm that recommends that ionization smoke detectors be installed in certain areas of the Library, as well as standpipes and a sprinkler system. It may be possible to use some of the money set aside for renovation for this purpose. Mr. Smith reported that the 33.7 miles of present stack space will be increased to 38.6 miles after the new building is constructed. Compact shelving for C-level will increase stack space even more. Dr. Cummings noted that, with renovated space, compact storage, the present facility should be adequate to house the literature at least to the year 2000. He emphasized that the new Lister Hill Center will initially house NLM staff, but, in addition, its educational resources could also be utilized by other agencies, such as the Uniformed Services University of the Health Sciences and the Health Resources Administration, agencies which have a need for specialized modern health education facilities.

Dr. Cummings characterized the lack of appointed Regents as one of the most pressing problems facing the Library. In the last 48 hours of the Ford Administration six nominations were sent from the White House to the Senate. There will probably be no action on these nominations. A new slate of 20 names has been prepared and approved by Dr. Fredrickson. It is hoped that this slate will soon be sent to the new Secretary and from there to the White House. NLM has been assured that political considerations will no longer be a determinant in appointing Regents. The Board passed a resolution on this subject (Attachment "B") for transmittal to the Secretary.
The Director reported that the second of two lawsuits filed against NLM by the System Development Corporation has been resolved in the Library's favor. The suit sought NLM's MEDLARS tapes under the Freedom of Information Act.

Dr. Cummings ended his presentation by reporting on the status of three collaborative agreements between NLM and the Health Resources Administration. The oldest—"to support the development of teaching materials through NMAC"—has been very successful and will be continued through next year. A more recent agreement involves collaboration in planning to use the recently launched Communications Technology Satellite; NLM provides the technology and equipment, and other health agencies, including HRA, will provide programs to be transmitted. The newest agreement has to do with improving the Library's services in the broad area of health care delivery and planning. The agreement calls for NLM and HRA to examine the existing literature, develop new vocabularies, and create improved systems for dissemination of information to the health care community.

VI. TRANSFER OF RESEARCH RESULTS INTO PRACTICE

Dr. Cummings discussed the recent work of an NIH task force considering the problem of transferring research results into practice. After a series of meetings, the task force has almost completed its final report. Dr. Cummings presented a slide that visualized the process of developing a technical consensus and the various interfaces necessary before research information moves into medical practice.

Dr. Harold M. Schoolman, NLM Assistant Deputy Director, discussed the problem of how to increase the effectiveness of information resources for the practicing clinician. Many practitioners do not use the existing library mechanism. There is general agreement on four criteria for information for practitioners: ease of access, immediacy of response, relevance of response, authority of response. All these factors are present in Alabama's Medical Information Service via Telephone (MIST), whereby the practitioner has immediate access to an expert at a medical school. Can such a system be applied nationally? How can a data bank of synthesized, authoritative information be established that can be updated easily and quickly? To look into this, Dr. Schoolman and senior staff of the Lister Hill Center used the subject of infectious hepatitis as a model.

Dr. Lionel M. Bernstein, who joined the Center's staff six weeks ago to concentrate on this project, described how the investigation was made. Information was sought from: recordings of the meetings of previous consultants, review articles, symposia, textbooks, experts on hepatitis, research grant applications, audiovisuals, other Federal agencies, PSROs, "throwaway" literature, and yearbook annual reviews. A number of conclusions were reached from these investigations: (1) There is a large amount of synthesized information—but its preparation is not coordinated; (2) there is a need to transfer old, unused information of value as well as current information; (3) consensual synthesized information (on hepatitis, for example) should be assembled as a baseline document, updated annually, and rewritten perhaps every five years. How to transmit the information once it is assembled is yet to be investigated.

Dr. Seymour Perry, Special Assistant to the NIH Director, expanded on the NIH Task Force on Communication. He reported that there are three phases. The first, research and the development of new knowledge, is clearly an NIH responsibility. The second,
the development of consensus, is a responsibility NIH shares with other professional and voluntary organizations. The third area is dissemination of knowledge and new intervention techniques to the health care community. NIH's role in this last process is not yet very well defined but is potentially very important. Dr. Perry mentioned several dangers to NIH in the entire process: that it might encroach on research resources and that it might cast NIH in the role of a regulatory agency.

Dr. Cummings emphasized that NLM should not become involved in the content evaluation but that we be concerned with the mechanism through which information is transferred. NLM should concentrate on building models for dissemination, although we (along with the other BIDs) can provide support for professional societies and other health organizations in developing the content.

VII. FEDERAL POLICY CONCERNING PAGE CHARGES

Mr. Melvin S. Day, NLM Deputy Director, reported that the U.S. Postal Service has informed a number of professional societies that scientific articles appearing in journals, which plan to utilize second class mailing privileges, and the publication of which is supported by page charges, shall be labeled ADVERTISEMENTS on each page. Moreover, the amount of such "advertising" in each issue is to be used in calculating the class of postage, and that if the amount of such advertising is in excess of 75 percent of the total pages in more than half the issues in a 12-month period, the journal cannot avail itself of second class publication postage status. The USPS position is based on 39 U.S.C. #4367, Section 125.52.

Most societies are facing severe economic problems in their publishing programs. In the face of a major drop in subscriptions, already experienced because of increased prices for their publications, the societies are convinced that another large increase will further erode the subscription base vital to the survival of journals. Major publishing societies presently depend on revenues from publication cost contributions to pay about 25 to 35 percent of total costs of publication. The major contributor to this support is the Federal Government. If publishers are required to follow the new USPS interpretation of the law, mailing costs could increase as much as 200 percent.

Representatives of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET) met with the USPS General Counsel on November 24, 1976, and the USPS indicated a willingness to modify its position if the payment of publication costs is not mandatory and if there is a clear indication that publication is not tied to the required payment of fees. It is estimated that, of the journals with page charges, about 90 percent have a voluntary page charge policy. As of this date the problem of the remaining 10 percent still is unresolved, but negotiations between these publishers and the USPS continue.

VIII. REPORT ON THE TOXIC SUBSTANCES CONTROL ACT

Dr. Henry M. Kissman, NLM Associate Director for Specialized Information Services, reported on the 1976 Toxic Substances Control Act (TSCA) and its implications for NLM. The Act gives the Federal Government, through the Environmental Protection Agency, broad powers to control chemicals and protect human health and the environment. There are requirements under the Act for data collection and data handling. NLM is concerned that EPA might, under the Act, build systems to handle toxicological information that would duplicate those already in place at NLM. The Library has
alerted the Assistant Secretary for Health, through the NII Director, of relevant information services already available and that there exists a potential overlap problem in this area. Dr. Kissman identified specifically: building "substance lists" of compounds without taking into consideration the considerable experience with chemical information handling of NLM's Toxicology Information Program (TIP), and establishing an information system for toxicological data retrieval in EPA that would essentially recreate NLM's TIP.

The Library believes that the processing and dissemination of nonproprietary information should remain in a nonregulatory agency like NLM. Unlike other legislation in this area, TSCA does allow for some health and safety data provided by industry to the government to be disclosed to the scientific community at large by EPA. NLM, with its on-line information retrieval services for toxicology, and its expertise in "information packaging," could be instrumental in disseminating such information. The Toxicology Information Program's Advisory body, TIPCOM, has recommended to Dr. Philip Handler, President of the National Academy of Sciences, that EPA should not attempt to replicate the functions of NLM's Toxicology Information Program of processing and disseminating toxicology information for the biomedical community since such activities are fulfilled more adequately in a nonregulatory agency such as NLM.

Dr. Cummings affirmed his belief that NLM should not become involved in handling proprietary information for EPA or any other regulatory agency. NLM, however, does have a proper role in sharing its experience, software, and expertise with other agencies. The creation of specialized information-handling systems within regulatory agencies may not necessarily be undesirable, he added.

After discussion, the Regents expressed their belief that NLM should concentrate on the nonproprietary, open literature, rather than proprietary data, and voted to approve a resolution offered by Admiral Cox. (See Attachment "C.")

IX. COMPUTER PROCUREMENT

Mr. Harry Bennett, NLM Acting Associate Director for Computer and Communications Systems, reported that HHS and the General Services Administration have given approval to keep the present IBM 370/158 computers through the end of 1979. The Board had expressed concern at its last meeting that replacing the computers by the fall of 1978, one year before the construction of the new Lister Hill Center, would be disruptive and uneconomical. This extra year will allow for a better job in evaluating proposals, developing benchmarks, conversion and installation, and parallel operation after the new computers are installed. It also permits a recalculation of the benefits of lease versus purchase for the present equipment. Mr. Bennett presented figures comparing the different options, concluding that purchase through the General Services Administration was most advantageous to the government.

Mr. Zipf, consultant to the Board, expressed his satisfaction that the purchase of the new computer has been put off until 1979. It would have been extremely wasteful to install the new equipment in 1978 and then have to move it a year later to the new building. He agreed with Mr. Bennett that purchase of the present equipment directly or through GSA would be the best plan.
X. MEETING OF THE REGIONAL MEDICAL LIBRARIES DIRECTORS

Dr. Schoolman reported on a meeting last November of the Directors of the Regional Medical Libraries to discuss how to arrive at a stable financial base for the document delivery network. Five years ago it was agreed by the Regents and the RMLs that the Federal Government should not seek to underwrite all interlibrary loans. The charging mechanisms for interlibrary loans vary greatly among the Regions, undercutting the principle of equal access to the system regardless of geographic location. After last November's meeting the RML Directors presented their position to NLM; Dr. Schoolman read to the Regents from a document prepared by NLM staff that incorporates much of what the RML Directors proposed. The document suggests that there should be a national uniform charge for document delivery service. Each recipient of a document would receive a notice stating what this charge is and that either the charge is being defrayed in all or in part by certain agencies or that the recipient would be billed for it. This uniform charge would not be profit-making, but based on incremental cost. Dr. Shoolman noted that although NLM is now reimbursing the network for about 600,000 loans per year, the total traffic is somewhere between one and two million. Therefore, any charge mechanism would have to be on a voluntary and collaborative basis. The charge could be divided into two parts: a transaction cost (whether the loan is filled or not), and a charge for actually filling the request. The first would be set arbitrarily so as not to be a deterrent to legitimate use but yet deter capricious requests; the fulfillment charge would be based on actual costs for delivering a document. The RML Directors have agreed to this plan and they recommend its phased implementation starting July 1, 1977. It would be phased in gradually over two years.

If a loan request by a local practitioner can be filled within a state, then arrangements for collecting the national uniform charge would be left to the requesting and filling institutions. If the request must be sent outside the state, then NLM will subsidize the "fulfillment charge" part of the total cost (the "transaction charge" would still be the responsibility of the requestor). If the request comes from an academic health center and can be filled within the Region, the charge must be borne within the Region; if the request is filled outside the Region, NLM will underwrite the fulfillment rate.

Dr. Schoolman said the RML Directors have yet to react to NLM's summary of the plan. No difficulty is foreseen because so much of the plan is as proposed by the Directors themselves.

XI. IMPLICATIONS OF 1970 HEALTH MANPOWER ACT FOR NLM

Dr. George E. Mitchell, Director of the Library's National Medical Audiovisual Center in Atlanta, reported that the Special Project Grant authorities of the new legislation will have an impact on Lister Hill Center and NMAC activities. Under the Special Project Grants there are eight categorical programs and a general authority provision to: establish family medicine departments; support training in family medicine and general dentistry; develop medical residency programs in internal medicine and pediatrics; develop Area Health Education Centers (AHECs); develop programs to train physician assistants, dental auxiliaries, and dental teams; assist disadvantaged students; assist transfers from foreign medical schools; and establish occupational health training centers. The general authority gives approval for support of numerous other types of projects and includes start-up, financial distress, and interdisciplinary training grants.
Dr. Endicott noted that the most important aspect of the new law is that it specifies precisely in what areas new initiatives should be taken. The previous legislation was very broad and not specific. Under the new law there will be less opportunity to transfer resources from the Health Resources Administration to other Federal agencies.

XII. COLLABORATIVE PROGRAM BETWEEN THE AAMC AND NLM

Dr. Schoolman described the three elements of collaboration between NLM and the Association of American Medical Colleges. The first was to develop a review system for audiovisuals that were to be entered into AVLINE. The second phase was a similar program for computer-based instructional materials. The most recent element, which began in January 1976, has as its objective to improve the performance of administrators of academic medical centers. To improve management performance, four tasks were laid out: (1) to identify, retrieve, and disseminate the literature available on this subject (NLM could help out in this task); (2) to develop instructional modules on management (NMAC is being of assistance in this); (3) to develop "case studies" of problems and solutions particular to the management of academic medical centers; and (4) to develop simulation models for management--to test the effect of various modifications to an existing (simulated) system. An AAMC advisory committee has been established for the program. Dr. Schoolman will take over temporarily as project officer for NLM's collaborative involvement and he will report again at a future Board of Regents' meeting. Dr. Schoolman closed his presentation by playing for the Regents a portion of a videotape (prepared at NMAC under task (2) above) on the topic of management organization.

XIII. REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS

Dr. Allen pointed out several items in the DRG Administrative Report: 1. Federal Tax Regulations require that consultants who receive compensation through a Scientific Review and Evaluation Grant during a given calendar year be issued a Form 1055, "Statement of Miscellaneous Income," by the employing institution. This does not apply to Board members and consultants who are issued W-2 Forms for IRS reporting purposes. 2. The report of the NIH Grants Peer Review Study Team will be made available to the Board as soon as it is received. 3. The Government Accounting Office (GAO) in a report for the Senate Committee on Appropriations expressed its dissatisfaction with the way NIH obligates money for biomedical research grants and recommended that NIH terminate funding of continuing project grants when "significantly better new applications, as evidenced by priority scores, could be funded; or recent scientific developments or other events result in research being no longer of public benefit." Instead, GAO suggested that NIH make those funds available to competing applications judged to be of greater scientific merit. NIH objected and called for council and study section members to comment. The result was that GAO bowed to the Department's rebuttal. The Department did agree, however, to begin monitoring grants more thoroughly to assure that required project reports are submitted by the grantees.

Dr. Allen then requested a change in the policy on the "Production of Curriculum Materials" under the Medical Library Resource Project Grant Program. He explained that the present Board-approved policy prohibits the use of resource project grant
funds for the production of audiovisuals. NLM now feels that the policy should be extended to include the production of all curriculum materials, such as textbooks and computer-assisted instructional packages. However, under a research grant, these materials would be allowable. Dr. Allen indicated that the EP Subcommittee of the Board had discussed this extension in depth and was in favor of its adoption. The Board of Regents concurred and recommended adoption of the policy to prohibit the support of curriculum materials under the Medical Library Resource Project Grant Program.

As required annually at the first meeting in the new fiscal year, Dr. Allen presented for review the Board Operating Procedures—"Guidelines for Adjustments by Staff in Time or Amount of Grant Award"—which were adopted in 1964. The Board reaffirmed the guidelines without revision. (Attachment "D")

Dr. Allen continued by bringing the Board up to date on the financial picture of the Extramural Programs for FY 1977. Funds appropriated by Congress amount to $8.0 million. Already committed, including the projects that are recommended for approval with a priority of 236, are $6,772,262. Recommendations made by the EP Subcommittee at its January 26 meeting amounted to about $790,000, leaving a balance for the last review cycle of only approximately $430,000. Dr. Allen indicated that this would be a reasonable division of funds, since $200,000 had been earmarked for the consortium grants. It is now anticipated that the consortium grants will not be funded as early as had been expected, because of the delays of consortium groups to reach their agreements. This situation would free some of the $200,000 for other projects.

XIV. AREA HEALTH EDUCATION CENTERS AND HEALTH SCIENCE LIBRARY SERVICES

Mrs. Frances H. Howard, Special Assistant to the Associate Director for Extramural Programs, presented a progress report on the Area Health Education Centers, a summary of which was included in the agenda book.

MEETING CLOSED FOR REVIEW OF GRANT APPLICATIONS FROM 10:15 A.M. TO 11:00 A.M.

XV. RESEARCH, RESOURCE, TRAINING, SPECIAL SCIENTIFIC PROJECT, AND PUBLICATION GRANT APPLICATIONS

Before proceeding with the consideration of pending applications, Dr. Dahlen informed Board members and consultants of confidentiality and conflict-of-interest procedures and reminded all appointed Regents and consultants to sign, at the conclusion of the grant review, the statement certifying that they had not participated in the discussion of any applications where conflicts of interest might occur.

The Board concurred with the recommendations of the Extramural Programs Subcommittee. A total of 59 applications was reviewed, of which 25 were recommended for approval, 27 for disapproval, and seven for deferral. Grant applications recommended for approval by the Board are listed in the summary actions (Attachment "E"). Interim actions taken by EP staff since the last Board meeting in September 1976 were noted.
XVI. ADJOURNMENT

The meeting was adjourned at 11:00 a.m. on Friday, January 28, 1977.

* * * * * * * * * *

Wednesday, January 26, 1977, 2:00 to 4:30 p.m.
(EP Subcommittee—List of Attendees under Attachment "F")
Thursday, January 27, 1977, 9:00 a.m. to 4:30 p.m.
Friday, January 28, 1977, 9:00 to 11:00 a.m.

* * * * * * * * * *

ACTIONS TAKEN BY THE BOARD OF REGENTS

1. The Board passed a resolution urging Secretary Califano to expedite the appointments of ten members to the Board of Regents (Attachment b).

2. The Board passed a resolution regarding the handling of proprietary toxicological information under the new Toxic Substances Control Act (Attachment "C").

3. The Board expressed its thanks to Dr. Peter D. Olch and Dr. Charles F. Bridgman for their "very talented and candid" presentation at the Board dinner on January 27.

4. The Board reaffirmed the Board Operating Procedures—"Guidelines for Adjustments by Staff in Time or Amount of Grant Award" (Attachment "D").

5. The Board concurred with recommendations of the Extramural Programs Subcommittee. Grant applications recommended for approval are listed in the summary actions (Attachment "E").

* * * * * * * * * *

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

Martin M. Cummings, M.D. / Executive Secretary

Robert B. Mehnert
Chief
Office of Inquiries and Publications Management

Joseph F. Volker, D.D.S., Ph.D. / Chairman

3/1/77
<table>
<thead>
<tr>
<th>Primary</th>
<th>Alternate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARENTZEN, Willard P., Vice Adm., MC, USN&lt;br&gt;Surgeon General&lt;br&gt;Department of the Navy&lt;br&gt;Washington, DC 20372 202-254-4153</td>
<td>COX, J. William, Rear Adm., MC, USN&lt;br&gt;Assistant Chief for Human Resources and Professional Operations&lt;br&gt;Bureau of Medicine &amp; Surgery (Code 3)&lt;br&gt;Department of the Navy&lt;br&gt;Washington, DC 20372 202-254-4180</td>
</tr>
<tr>
<td>BOORSTIN, Daniel J., Litt.D.&lt;br&gt;Librarian of Congress&lt;br&gt;10 First Street, S.E.&lt;br&gt;Washington, DC 20540 202-426-5205</td>
<td>none</td>
</tr>
<tr>
<td>CHASE, John D., M.D.&lt;br&gt;Chief Medical Director&lt;br&gt;The Veterans Administration&lt;br&gt;Washington, DC 20420 202-389-2596</td>
<td>MAYER, Dr. William D.&lt;br&gt;Assistant Chief Medical Director for Academic Affairs (14)&lt;br&gt;Department of Medicine &amp; Surgery&lt;br&gt;The Veterans Administration&lt;br&gt;810 Vermont Avenue, N.W.&lt;br&gt;Washington, DC 20420 202-389-5093</td>
</tr>
<tr>
<td>CLARK, Eloise E., Ph.D.&lt;br&gt;Assistant Director for Biological, Behavioral, and Social Sciences&lt;br&gt;National Science Foundation&lt;br&gt;1800 G Street, N.W.&lt;br&gt;Washington, DC 20550 202-632-7867</td>
<td>none</td>
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<tr>
<td>EHRLLICH, S. Paul, Jr., M.D.&lt;br&gt;Acting Surgeon General&lt;br&gt;U.S. Public Health Service&lt;br&gt;Rockville, MD 20852 301-443-1774</td>
<td>ABDELLAH, Dr. Faye G.&lt;br&gt;Assistant Surgeon General&lt;br&gt;Chief Nurse Officer, USPHS, and Director, Office of Long-Term Care, H Parklawn Building, Room 17B17&lt;br&gt;5600 Fishers Lane&lt;br&gt;Rockville, MD 20852 301-443-6497</td>
</tr>
</tbody>
</table>
BOARD OF REGENTS Roster, continued

TAYLOR, Richard R., Lt. Gen., MC, USA
The Surgeon General
Department of the Army
Washington, DC 20314    202-697-1295

RICHARDS, John C., 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

EXECUTIVE SECRETARY

CUMMINGS, Martin M., M.D.
Director
National Library of Medicine
Bethesda, MD 20014    301-496-6221
WHEREAS: The Board of Regents of the National Library of Medicine which consists of ten Presidential appointees and seven ex-officio members is charged by law to "advise, consult with, and make recommendations to the (Secretary) on important matters of policy in regard to the Library...." and

WHEREAS: There remains only one Presidential appointee and, as of August 1977, there will be no remaining Presidential appointees on the Board of Regents, and

WHEREAS: The Board of Regents, in addition to its advisory function, has grant and contract review functions under the Medical Library Assistance Act of 1965,

THEREFORE: In order that the Board of Regents be able to perform its mandatory duties, be it resolved that the Board of Regents urgently requests the Secretary to do all in his power to bring this situation to the attention of the new administration, and to expedite the Presidential nomination of ten new members to the Board as required by law.

National Library of Medicine
January 27, 1977
WHEREAS: The Toxic Substances Control Act (Public Law 94-469) and other legislation require regulatory agencies to collect and process proprietary toxicological information which must be afforded confidentiality,

THEREFORE: It is the recommendation of the Board of Regents that the National Library of Medicine follow previously established guidelines and not become engaged as an agent of a regulatory agency in handling proprietary toxicological information, but rather that the Library limit its activity to the acquiring, processing, and disseminating of the nonproprietary "open" literature.

National Library of Medicine
January 27, 1977
GUIDELINES FOR ADJUSTMENTS BY STAFF
IN TIME OR AMOUNT OF GRANT AWARD

1. Staff is authorized to exercise its responsibility to negotiate downward from the Board recommendation:
   (a) Where activities or items can be adequately accomplished at a smaller cost than that recommended by the Board;
   (b) Where statute, regulation, or policy requires elimination of certain items of expenditure; or
   (c) Where the applicant voluntarily restricts the scope of his project to less than that recommended by the Board.

2. Staff is authorized to exercise its judgment and responsibility for upward revision in the dollar amount of award whenever such revision is for the purpose of carrying out the objectives of the proposal within the scope recommended by the Board.
   (a) This authorization will cover those factors which deal with administrative adjustments in budget, such as orderly termination, institution-wide salary increases, and proportional adjustment of budgets to accommodate changes in project period dates.
   (b) This authorization is not to be limited to any specific set of circumstances, but extends to any adjustment of the budget that is not for the purpose of altering scientific content or scope of the project.
   (c) There should be no arbitrary limitation, either as a dollar amount or percentage of approved grant, on staff negotiation. Rather, the purpose of the budget adjustment should be the limitation on staff authorization.

3. Staff will report all budget adjustments in excess of $500 to the Board at the next available meeting to permit review of the effect of these guidelines. Board confirmation of each administrative action will not, however, be required.

Adopted: 11/6/64
Reaffirmed: 6/24/66
Reaffirmed and amended: 6/20/68
Reaffirmed: 11/21/69
Reaffirmed: 11/20/70
Reaffirmed: 11/23/71
Reaffirmed: 11/21/72
Reaffirmed: 11/30/73
Reaffirmed: 12/6/74
Reaffirmed: 11/26/75
Reaffirmed: 1/28/77
INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

APPLICATION NUMBER | SHORT TITLE | AMOUNTS RECOMMENDED
--- | --- | ---
2 R01 LM01702-04 | DEVELOPING AN INFORMATION SYSTEM FOR BIOETHICS | 04 94,737
 | 05 64,509
 | 06 69,525
2 R01 LM 01786-05 | SYNTHESIS OF LITERATURE ON MOSQUITOES | 05 18,140
1 R01 LM 02591-01A1 | DR. ISAAC RAY: A BIOGRAPHY | 01A1 23,554
 | 02 25,632
 | 03 26,798
1 R01 LM 02927-01 | CITY OF LONDON PARISH RECORDS | 01 16,750
 | 02 18,424
1 R01 LM 02947-01 | BIBLIOGRAPHY OF NORTH AMERICAN FOLK & ETHNIC MEDICINE | 01 22,330
 | 02 22,753
1 R01 LM 02956-01 | PHYSIOLOGY OF NERVE AND SYNAPSE IN THE 20TH CENTURY | 01 16,442
 | 02 15,984
 | 03 14,962
1 R01 LM 02958-01 | A TEXT ON AMINO ACID FORTIFICATION OF CEREAL PRODUCTS | 01 21,580
1 R01 LM 02961-01 | BIBLIOGRAPHY OF THE HISTORY OF MEDICINE IN SOUTH CAROLINA | 01 10,957

1/Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.
APPLICATIONS RECOMMENDED FOR APPROVAL BY COUNCIL 1/
(Arranged numerically by program)  
COUNCIL DATE: JANUARY 1977

INSTITUTE DIVISION: NATIONAL LIBRARY OF MEDICINE

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<td>1 R01 LM AM 02962-01</td>
<td>A MONOGRAPH ON ENDEMIC GOITER AND CRETINISM</td>
<td>01 18,811</td>
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<td>1 R01 LM 02968-01</td>
<td>CYCLIC AMP - A CLASSIFIED BIBLIOGRAPHY OF PUBLICATIONS</td>
<td>01 12,550 02 14,795 03 15,140</td>
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1/ Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.
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<tr>
<td>2 K10 LM 26,415-04</td>
<td>CONTROL OF INFECTIOUS DISEASES IN 20TH CENTURY</td>
<td>04 28,940</td>
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1/ Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.
INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

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<td>HEALTH INFORMATION NETWORK OF THE PACIFIC</td>
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<td>3 G08 LM 02519-02S1</td>
<td>COASTAL BEND HEALTH SCIENCES LIBRARY CONSORTIUM</td>
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<td>1 G08 LM 02863-01</td>
<td>EXPORT OF UAB-MODIFIED UCLA ON-LINE SERIALS SYSTEM</td>
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<td>1 G08 LM 02878-01</td>
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<td>VETERINARY MEDICAL INFORMATION SYSTEM</td>
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<td>1 G08 LM 02887-01</td>
<td>DOCSIN RESOURCE SHARING PROGRAM: MONOGRAPHS</td>
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<tr>
<td>1 G08 LM 02911-01</td>
<td>COMPUTER ASSISTED DENTAL SIMULATIONS</td>
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1/ Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.
APPLICATIONS RECOMMENDED FOR APPROVAL BY COUNCIL 1/
(Arranged numerically by program)

COUNCIL DATE: JANUARY 1977

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

<table>
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<td>1 GO8 LM 02919-01</td>
<td>ALTERATION AND RENOVATION OF PROFESSIONAL LIBRARY</td>
<td>01 19,542</td>
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<tr>
<td>1 GO8 LM 02920-01</td>
<td>SOUTH DAKOTA MEDICAL LIBRARY SERVICES DEVELOPMENT PROGRAM</td>
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<tr>
<td>1 GO8 LM 02929-01</td>
<td>EXPANSION AND ALTERATION OF HEALTH SCIENCES LIBRARY</td>
<td>01 20,325</td>
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<td>1 GO8 LM 02948-01</td>
<td>CORNELL CONSORTIUM FOR A LIBRARY A-V LEARNING PROGRAM</td>
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<td>1 GO8 LM 02954-01</td>
<td>ON-LINE CATALOGING DEMONSTRATION PROJECT</td>
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<td>1 GO8 LM 02969-01</td>
<td>INSTRUCTIONAL MEDIA FOR MENTAL HEALTH NEEDS</td>
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1/ Approval recommendations are not final but are the basis upon which subsequent BID determinations and negotiations will determine final awards.
BOARD OF REGENTS

Extramural Programs Subcommittee Meeting

January 26, 1977

ATTENDEES

Subcommittee Members Present:

Mrs. Bernice M. Hetzner
Dr. Ralph G. Meader
Dr. Doris H. Merritt

NLM Staff Present:

Dr. Martin M. Cummings, Director
Dr. Ernest M. Allen, Associate Director for Extramural Programs
Mr. Arthur J. Broering, Deputy Associate Director for Extramural Programs
Dr. Jeanne L. Brand, Chief, International Programs Division, EP
Dr. Roger W. Dahlen, Chief, Division of Biomedical Information Support, EP
Mrs. Helen S. Bennison, Grants Management Specialist, EP
Mr. Peter A. Clepper, Program Officer, EP
Mrs. Karin K. Colton, Committee Management Assistant
Mrs. Frances E. Johnson, Program Officer, EP
Mrs. Marguerite Pusey, Grants Management Specialist, EP
Mr. Randall Worthington, Program Officer, EP
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE
Bethesda, Maryland

AGENDA

57th Meeting of the
BOARD OF REGENTS

9:00 a.m., May 19-20, 1977

Board Room
National Library of Medicine

MEETING OPEN: All day on May 19 and from 9:00 to 9:15 a.m. on May 20.
MEETING CLOSED: From 9:15 a.m. to adjournment on May 20 for the review of
grant applications.

I. CALL TO ORDER AND INTRODUCTORY REMARKS

II. CONSIDERATION OF MINUTES OF LAST MEETING

III. DATES OF FUTURE MEETINGS

1977 and 1978 Calendars

Next Meeting: October 6-7, 1977 (Th-F)
Winter Meeting: January 26-27, 1978 (Th-F)
Selection of Dates for Spring 1978 Meeting
May 18-19 (Th-F) or May 25-26 (Th-F)

NOTE: 74th AMA Annual Congress on Medical Education,
February 1-6, 1978, Palmer House, Chicago.

IV. REMARKS BY THE ACTING DEPUTY DIRECTOR, NIH

V. REPORT OF THE DIRECTOR, NLM

COFFEE BREAK

5/5/77
VI. REPORT ON PLANNING PROCESS  
TAB IV  
Mr. Davis B. McCarn

VII. COMMUNICATION TECHNOLOGY SATELLITE  
TAB V  
Mr. B. Earl Henderson

LUNCHEON CATERED IN CONFERENCE ROOM "B"

VIII. SCOPE AND COVERAGE MANUAL REVISION  
TAB VI  
Dr. Joseph Leiter  
Dr. Faye G. Abdellah,  
Mrs. Bernice M. Hetzner  
Discussants

IX. COMPUTERIZATION OF TECHNICAL PROCESSING  
TAB VII  
Mr. Thomas D. Tonkerey

X. PRELIMINARY REPORT ON FORTHCOMING BROOKINGS CONFERENCE  
TAB VIII  
Dr. Harold M. Schoolman

XI. HRA/NLM COLLABORATION:
A. Description of HRA Information Program
   TAB IX  
Mr. H. Calvin Meadows

B. Report on HRA/NLM Agreement on Health Care Planning Literature
   Dr. Harold M. Schoolman

COFFEE BREAK

XII. LIBRARY OF CONGRESS ACTIVITIES  
Mr. William J. Welsh

XIII. PRESENTATION OF AWARDS:
A. Eighth Regents' Award for Scholarship or Technical Achievement  
   Dr. Joseph F. Volker

B. Director's Award  
   Dr. Martin M. Cummings

RECESS
DINNER . . . . . . . . . . . . . . . . . . . Bethesda Naval Officers' Club
Cocktails (Cash Bar) . . . . . . . . 6:30 p.m.  "Patio Room"
Dinner (Dutch Treat) . . . . . . . . 7:30 p.m.

SPEAKER: Dr. Kenneth M. Endicott
Acting Director, Lister Hill National Center
for Biomedical Communications

TOPIC: "My Experience in the Public Health Service"

(List of dinner transportation arrangements, where appropriate, in agenda folders.)

* * * * * * * * *

RECONVENE: 9:00 a.m., Friday, May 20, 1977

XIV. REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS

A. Administrative Report
B. Budget Picture

MEETING CLOSED FOR GRANT APPLICATION REVIEW FROM 9:15 A.M. TO ADJOURNMENT

XV. SPECIAL APPLICATIONS

A. Publication
B. Research
C. Resource
D. Training

(Gray Workbook)

TAB I  Dr. Jeanne L. Brand
TAB II  Dr. Roger W. Dahlen
TAB III
TAB IV

XVI. SUMMARY STATEMENTS

A. Publication
B. Research
C. Resource
D. Special Scientific Project
E. Training

TAB V  Dr. Jeanne L. Brand
TAB VI  Dr. Roger W. Dahlen
TAB VII
TAB VIII
TAB IX

XVII. ADJOURNMENT

Dr. Joseph F. Volker
The Board of Regents of the National Library of Medicine was convened for its fifty-seventh meeting at 9:00 a.m. on Thursday, May 19, 1977, in the Board Room of the National Library of Medicine, Bethesda, Maryland. Dr. Joseph F. Volker, Chancellor, University of Alabama System, and Chairman of the Board of Regents, presided. In accordance with P.L. 92-463 and the Determination of the Director, NIH, and as announced in the Federal Register on April 13, 1977, the meeting was open to the public from 9:00 a.m. to 5:00 p.m. on May 19, and from 9:00 to 10:00 a.m. on May 20, and closed from 10:00 to 11:00 a.m. on May 20 for the review, discussion, and evaluation of grant applications. A Board roster is included under Attachment "A."

Board members present were:

Dr. Joseph F. Volker

Alternates to Board members present were:

Dr. Faye G. Abdellah, representing Dr. S. Paul Ehrlich, Jr.
Brig. General Ernest J. Clark, representing Lt. General George E. Schafer (on May 19)
Rear Admiral J. William Cox, representing Vice Admiral Willard P. Arentzen
Dr. William D. Mayer, representing Dr. John D. Chase
Mr. William J. Welsh, representing Dr. Daniel J. Boorstin

Unable to attend:

Dr. Eloise E. Clark
Col. John C. Richards

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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. Martin M. Cummings, Director
Mr. Melvin S. Day, Deputy Director
Dr. Harold M. Schoolman, Assistant Deputy Director
Dr. Ernest M. Allen, Associate Director for Extramural Programs
Dr. Clifford A. Bachrach, Head, Medical Subject Headings Section, LO
Mr. Harry D. Bennett, Acting Associate Director for Computer and Communications Systems
Mr. Albert M. Berkowitz, Chief, Reference Services Division, LO
Dr. John B. Blake, Chief, History of Medicine Division, LO
Dr. Jeanne L. Brand, Chief, International Programs Division, EP
Dr. Charles F. Bridgman, Assistant Director for Educational Resources Development
Mr. Arthur J. Broering, Deputy Associate Director for Extramural Programs
Dr. Roger W. Dahlen, Chief, Division of Biomedical Information Support, EP
Dr. Kenneth M. Endicott, Acting Director, Lister Hill National Center for Biomedical Communications
Mr. Benjamin Erdman, Deputy Director, LHNCBC
Mr. Joseph Gantner, Chief, Technical Services Division, LO
Mr. Charles M. Goldstein, Chief, Computer Technology Branch, LHNCBC
Mr. B. Earl Henderson, Chief, Communications Engineering Branch, LHNCBC
Mr. James J. Hartman, Chief, Office of Personnel Management
Dr. Henry M. Kissman, Associate Director for Specialized Information Services
Dr. Joseph Leiter, Associate Director for Library Operations
Mr. Davis B. McCarn, Special Assistant for Science Communications (Planning)
Mr. Robert B. Mehnert, Chief, Office of Inquiries and Publications Management
Mr. Kent A. Smith, Assistant Director for Administration

Others present included:

Dr. Thomas E. Malone, Acting Deputy Director, NIH
Dr. Edmund S. Copeland, Executive Secretary, Pathology B—Ad Hoc Review Study Section, DRG, NIH
Mrs. Bernice M. Hetzner, Professor of Library Science, University of Nebraska Medical Center—Consultant, NLM
Dr. Saul Jarcho, Editor in Chief (Retired), New York Academy of Medicine—Consultant NLM
Dr. Alan Mayers, Executive Secretary, Health Care Technology Study Section, National Center for Health Services Research, HRA,PHS
Mr. H. Calvin Meadows, Project Manager, National Health Planning Information Center, HRA
Dr. Doris H. Merritt, Dean, Office of Research and Sponsored Programs, Indiana Purdue University at Indianapolis—Consultant, NLM
Dr. Max Michael, Jr., Executive Director, Jacksonville Hospitals Educational Programs, Inc. —Consultant, NLM
Dr. G. Burroughs Mider—Consultant, NLM
Mr. Samuel T. Waters, Associate Director, National Agricultural Library
Dr. Stewart G. Wolf, Jr., Director, Marine Biomedical Institute—Consultant, NLM
Mr. Alfred R. Zipf, Executive Vice President and Senior Administrative Officer (Retired), Bank of America—Consultant, NLM

Members of the public present:

Mr. Jeff Christy, Reporter, "The Blue Sheet"
I. OPENING REMARKS

Dr. Joseph F. Volker, Chairman, welcomed the Regents, consultants, and guests to the 57th meeting of the Board of Regents of the National Library of Medicine. He thanked the ex officio members and consultants for their diligent efforts in the absence of appointed Regents.

II. CONSIDERATION OF MINUTES OF PREVIOUS MEETING

The Board approved the minutes of the meeting of January 27-28, 1977.

III. DATES FOR FUTURE MEETINGS

The Board approved the dates of October 6-7, 1977, for the next meeting, and confirmed the dates of January 26-27, 1978, for the subsequent meeting. May 25-26, 1978, were the dates approved tentatively for the following meeting.

IV. REPORT OF THE DEPUTY DIRECTOR, NIH

Dr. Thomas E. Malone commented on the developing good relationship between NIH Director Fredrickson and HEW Secretary Califano. This is a welcome reversal of previous trends and bodes well for NIH. The Assistant Secretary for Health-designate, Dr. Julius Richmond, will bring unusual experience and expertise to the Department when he is confirmed. It is not clear at this time what will be the Department's and the new Assistant Secretary's attitude toward basic research at NIH. What is clear, however, is that there will be an emphasis on the application of research results to health care. Dr. Malone reported that the HEW Secretary is carrying out President Carter's order to review all public advisory committees and to reduce their number. There will be a modest reduction in NIH committees, but the basic advisory structure will be preserved. NIH is also involved in responding to the Administration's directives concerning Zero-Base Budgeting.

Dr. Malone characterized NIH's history by stating that 1955-1965 was a period of expansion, with the imperatives of science, politics, management, and ethics in a state of equilibrium. From 1965 to 1971 there was a plateau when research had to compete for resources with such factors as the war in Vietnam. Since 1971 the NIH budget has risen, but there has also been an accompanying explosion in legislation mandating new programs. In the next year there may be additional legislative activity affecting NIH. For example, Senator Kennedy, in opening the recent oversight hearings, said that the public should be more involved in the decisions that will affect their lives in the area of biomedical research. Dr. Malone said that legislation resulting from these hearings may involve NIH more in targeting research and in health care applications. NIH has been asked to develop its own "omnibus" bill, based on such inputs as the report of the President's Biomedical Research Panel. NIH has established two working groups in this regard: one to consider the mission and organization of NIH, the other (headed by Dr. Cummings) to work on guidelines and authorities for the NIH Director.
In response to a question, Dr. Malone commented that the institutional framework of NIH will prevail over attempts to amalgamate common functions (such as an Institute of Biochemistry). Admiral Cox asked about inter-Institute cooperation to solve problems that cut across Institute lines. Dr. Malone conceded that there is a certain amount of "territoriality" among the Institutes; this year's Forward Plan, however, refers to five trans-NIH issues that will require extensive cooperation—among them are cystic fibrosis, nutrition, and genetics.

V. REPORT OF THE DIRECTOR, NLM

Dr. Cummings introduced Mr. James J. Hartman, NLM's new Personnel Officer, and also announced the appointment of Dr. Myron J. Adams, Jr., as Deputy Director of the National Medical Audiovisual Center.

Dr. Cummings reported that the Library was actively engaged in the new Zero-Base Budgeting System. The budget is structured at three levels: the minimum level (20 percent below the current dollars), the maintenance level, and an improvement level. The NIH position initially was not to rank programs at the minimum and maintenance levels, but only at the improvement level. The Department is requiring, however, that all programs at all levels be ranked in priority order. Within the NLM, Dr. Cummings said, the programs were generally ranked with services and direct operations first, then extramural (grant) programs, and finally management.

Recent hearings before the House and Senate subcommittees went well. There was keen interest by the legislators in NLM's programs. The Library's FY 1978 budget will show an increase of $1.5 million—a funding level sufficient to cover mandatory costs required to sustain the NLM programs at their present levels. The prospects for FY 1979 are unclear, but we are optimistic that NLM will receive its fair share of any increases. Dr. Cummings was less optimistic about increases in staff, noting that NLM had not received any increases in positions at a time when service demands were increasing sharply.

Renewal of the Medical Library Assistance Act is proceeding in Congress. The House had approved a one-year extension at the level of $9 million. The Senate has approved it at $20 million. Although NLM will not receive this latter figure, it is a welcome expression of confidence by the Senate. The differing amounts will be resolved by the two bodies and the Act should be continued with no problem. Also on the political front, there has been no action by the White House in sending nominations for the Board to the Senate. The slate of 20 names (including 10 alternates) went quickly from NIH to the HEW Secretary and from there to the White House. Regrettably, there has been no further action.

Dr. Cummings reported on how the deliberations at the last Board meeting on the subject of technology transfer were incorporated into the new draft NIH mission statement. Echoing the Board's discussion, the new statement calls for NIH to participate with other Federal agencies and professional societies in transferring research results into practice. NLM will have an important, but limited, role. Also, as a follow-up to discussions from the last Board meeting, the Director noted that the Library has taken steps to purchase its present computer hardware. This decision was wise
in a way we could not then foresee: IBM announced a general price reduction resulting in an additional saving of $600,000 in the procurement.

At the last Regents' meeting it was reported that there were 17 bids received for construction of the new Lister Hill Center building, all of which were at a lower cost than the government estimate. The low bidder has been challenged because the bid improperly listed the subcontractors. The General Accounting Office will evaluate the merits of the protest and render a decision in June. At best, we will lose a month in the schedule; at worst, the whole contract might be rebid.

Mr. Kent A. Smith, NLM Assistant Director for Administration, summarized a new procedure for contract review within the Library. As a result of a recent review of NLM's contracting procedures and the desire of the NLM to more fully involve the Board in its contractual efforts, several recommendations for change have been adopted. The first is to use subcommittees of the Board of Regents to review project concepts (not actual proposals). The Extramural Programs Subcommittee, the Lister Hill Center and the National Medical Audiovisual Center Subcommittee, and a proposed Library Services Subcommittee would be used, supplemented as needed by expert consultants. The Library's Planning Officer would work closely with the Subcommittees and then assist the Associate Directors in drawing up their annual contract plans. Other recommendations call for establishing an Automatic Data Processing Advisory Group within the Library (combining the functions of several existing groups), strengthening the review process for contract requests, and better coordinating contract actions that affect more than one program of the Library. Mr. Smith presented a flow chart that detailed the new contract process step by step. The process will be put into operation in the next contract review cycle.

The Regents expressed their concern about the Library's inability to get more staff. A possible resolution to the HEW Secretary was discussed, but it was agreed that testimony on the Library's behalf at Congressional oversight hearings would be more effective. Since the Library will be increasingly involved in "technology-transfer" activities, this would be an appropriate opening to make a persuasive request for increased staff. If NLM does not receive more positions, it may find itself in the uncomfortable position of being unable to fulfill "rising expectations," much as the Great Society programs.

VI. REPORT ON NLM PLANNING PROCESS

Mr. Davis B. McCarn, NLM's Special Assistant for Science Communications (Planning), described the process of planning as one of identifying present activities and, considering these in the light of available resources and technology, deciding what future activities should be engaged in. There must be a structural framework in which to develop these plans and also an implementation and monitoring mechanism. One of the first activities of the Planning Office was to turn some of the generalized goals identified in the Forward Plan into a detailed plan with milestones and monitoring mechanisms. Mr. McCarn noted that there is also a need for baseline data pertaining to workloads and resource allocation; work has begun to identify and collect these data. We are also looking closely at proposals for new on-line data bases—matching them against estimates of computer capacity so that rational decisions may be made.
as to which should be implemented. The Planning Office is also preparing the annual evaluation plan on program effectiveness required by NIH.

Mr. McCarn described in some detail the plans to improve information transfer for health care (one of the areas identified in the Forward Plan). These plans include: extending on-line service to a total of 250 hospitals; enriching existing MEDLARS bibliographic services to include more health-planning material; developing new on-line training courses and training courses for health librarians; developing a "translation" database for bringing research results to clinical application; developing audiovisual products for continuing medical education; and supporting the development of hospital consortia. Plans to improve information transfer for the protection of health include developing the Toxicology Data Bank, expanding CHEMLINE and the Laboratory Animal Data Bank, providing services from the Registry of Toxic Effects of Chemical Substances (NIOSH), and developing a chemical compound information system. Mr. McCarn also listed possible new on-line data bases that have been proposed to NLM by a variety of other organizations. He pointed out that the cost of creating MEDLARS data bases has increased, even with the partial recovery of costs through quid pro quo arrangements.

An analysis of the number of hospitals around the country having on-line access disclosed a wide variation by region. These results demonstrated the need for the planning recommendation to extend on-line services to 250 hospitals. Another analysis conducted by Mr. McCarn showed that 55 percent of articles in MEDLINE are indexed to some drug or chemical; only 8 percent of this material appears in TOXLINE. We are now reexamining the TOXLINE file versus MEDLINE. By July all TOXLINE users will have MEDLINE (and vice versa). Mr. McCarn concluded his presentation by giving an analysis of the rate of growth of connect-time by type of institution. The overall annual growth rate is 15 percent. The growth rate varies from zero percent (medical schools) to 50 percent (commercial). Medical schools remain the largest single category of users, however, with 32 percent of total use.

VII. COMMUNICATION TECHNOLOGY SATELLITE

Mr. B. Earl Henderson, Chief of the Lister Hill Center's Communications Engineering Branch, described NLM's involvement in providing technical support and program coordination for a series of health-related communications experiments using the joint Canadian-American Communications Technology Satellite (CTS). Public Health Service agencies are providing the program content. The focus of the experiments is on continuing professional education—specifically to share central resources (from NIH, for example) with widely separated university-based consortia. To this end, fully interactive (voice and video) satellite terminals are being installed at Fairbanks, Seattle, Denver, Bozeman (Montana), and Lexington. The hub of the network is at NLM in a new TV studio and terminal facility constructed next to the Billings Auditorium. The CTS satellite is extremely powerful, thus reducing the cost and complexity of the remote ground terminals. In addition, the CTS provides much wider geographic coverage than the previously used ATS-6: CTS has two moveable beams, each able to cover one-third of the continental U.S.

Several special broadcasts originating from NLM have already taken place: a technical training session with Hewlett-Packard engineers in Palo Alto; an interactive program
with a rural health conference in Seattle; and a discussion of DNA research between
NIH Director Fredrickson and students from Stanford. Mr. Henderson showed brief
videotape clips from the latter two broadcasts. There will be a variety of experimental
programs this fall, including those in such areas as nursing education and dietetics.
Evaluation will be on three levels: NASA will be testing technical aspects of the
communication process; NLM will be evaluating the effectiveness of the network
for national sharing; and the individual PHS agencies will be testing the effectiveness
of the programs themselves.

Admiral Cox commented on two facets of this technology: the interaction between
teacher and learner is of paramount importance; and the interaction greatly extends
the ability of the physician through physician assistants. These may be located in
remote areas (such as on a ship) and work directly under the tutelage of an M.D.
The interactive process can also be used to help solve problems of not having specialists
at the needed locations. Dr. Cummings noted that this mode of communication is
less cost-effective in rural settings because of the small audiences involved. Dr. Volker
commented on the remarkable clarity of the pictures and the degree of immediacy
in the communication among participants.

VIII. LIBRARY OF CONGRESS ACTIVITIES

Mr. William J. Welsh, Deputy Librarian of Congress and alternate ex officio member
of the Board, gave his fellow Regents an illustrated report on the Library of Congress.
A number of contrasts with NLM are apparent: LC does not have a problem with
a personnel ceiling (it has over 5,000 employees); the collection has 71 million items—
increasing at a rate of 7-8 million a year; being in the legislative branch, LC is not
restricted by the rules and regulations that bind executive branch agencies. Mr. Welsh,
referring to a chart, described the organization of the Library of Congress. LC plans
to close down its card catalog by 1980 and replace it with an automated system.
In two years most of the Library's employees will move into the new $123 million
Madison Memorial Building.

Mr. Welsh outlined progress to date on the MARC (machine-readable cataloging)
program. The original impetus for MARC came from a study funded by the Council
on Library Resources that recommended computerizing the information appearing
on catalog cards. In 1968 LC began cataloging all English monographs in machine-
readable form; this has since been expanded to French, Spanish, and Portuguese.
About 62 percent of such current cataloging is done in MARC—the goal is 100 percent,
or about 250,000 titles per year, by 1980.

Mr. Welsh described the proposed "National Periodical Center." There would be three
levels of service for journals: (1) Most major research libraries would hold up to about
5,000 titles; (2) 5,000 to 45,000 titles would be held in a dedicated collection at LC;
(3) little-used materials would be held by large research libraries. Since providing
copies from the dedicated LC collection would be "systematic," there is a copyright
question that must be addressed. In response to questions, Mr. Welsh detailed the
duties of LC employees in other countries and described the relations between LC
and other national libraries around the world.
IX. REVISION OF SCOPE AND COVERAGE MANUAL

Dr. Joseph Leiter, NLM Associate Director for Library Operations, reviewed some of the practices of other major libraries pertaining to scope and coverage, recounted the history of NLM's scope and coverage manuals (the first appeared in 1951), and described the recent activity leading to the new revision. The new scope and coverage manual results from a recommendation of the Regents at their fall 1975 meeting that the scope and coverage policy be updated and a new manual issued. A Board Study Group was appointed, chaired by Dr. Abdellah, which prepared a policy statement that was reviewed and approved by the Board in June 1976. Since that time the manual was prepared under the direction of the Study Group; Paula M. Strain of the Reference Services Division was the staff member responsible for coordinating the effort.

The new manual provides for three levels of coverage, rather than the previous four, and it states that NLM should no longer strive for exhaustive coverage in some areas but limit comprehensive coverage to the significant scholarly literature. The three levels are: comprehensive collection (for core subjects); research collection (related subjects); reference collection (peripheral subjects). The manual contains an expanded description of core medicine, including increased emphasis on health care delivery, education and continuing education, and hospitals and hospital administration.

Dr. Leiter noted that the success of NLM's scope and coverage policy can be measured by the success NLM has in filling requests for loans. In recent months NLM has been satisfying about 75 percent of the requests for original materials. The reason that NLM cannot fill 25 percent is because the requested item is already out on loan. Eliminating this factor, it can be seen that NLM has the potential of filling almost 85 percent of all requests.

Following Dr. Leiter's presentation, Dr. Abdellah thanked the Study Group, consultants, and NLM staff for their hard work in developing the policy statement and manual. Mrs. Hetzner, who worked on the Study Group as a consultant, emphasized that the policy statement accepted by the Board last June does not address bibliographic control and announcement. This was deliberate on the part of the Study Group which recommended that bibliographic control be held in abeyance until the scope and coverage work was completed. The issue should still be of concern to the Board and a subject of future deliberation and action.

Dr. Mider questioned the provisions contained in the manual pertaining to legislative materials. If we are to collect items of health legislation, we must also collect the hearings that lead to them and the regulations they generate. Mr. Welsh remarked that the Library of Congress has an on-line data base known as the "Bill Digest" which could be made available to NLM to help solve this problem. It does not contain the regulations implemented as a result of legislation, however. The point was made that there are a number of commercial organizations in the business of tracking legislation and preparing compendia of hearings, legislation, and regulations for special interest groups. (As a result of this discussion, the wording in the Scope and Coverage Manual was made more explicit.)
X. COMPUTERIZATION OF TECHNICAL PROCESSING

Mr. Thomas D. Tonkerey, Deputy Chief, Technical Services Division (TSD), reviewed recent activity in TSD leading to the computerization of certain technical processing functions. In the area of network-available data bases there are several bibliographic files, including CATLINE (on-line catalog of material since 1965), AVLINE (over 3,000 non-print items), Name Authority File (every personal, corporate, and series name in the computerized files), and SERLINE (on-line access to 25,000 serial titles and their location in resource libraries around the U.S.) In addition to these network files, there are internal on-line processing files accessible within NLM. These include an on-line accounting file, files of in-process print and non-print materials, and a master serials system. These files are accessible from 19 lines within TSD, including cathode ray terminals, as well as paper output terminals.

The information in CATLINE, in addition to being made available over the MEDLINE network, is used to produce biweekly proof sheets of cataloging information that are sent out to about 600 libraries in the U.S. Also, the system produces catalog cards for NLM's main card catalog and quarterly, annual, and five-year printed catalogs. Mr. Tonkery showed the Regents examples of records from CATLINE, AVLINE, Name Authority File, SERLINE, and the internal processing files. The master serials system is not yet completely automated. Although subscription, binding, gaps, renewal, and microfilming information is computerized, serial check-in still presents a problem. As much as possible of the day-to-day TSD use has been shifted from the main MEDLARS computers to a minicomputer in TSD to reduce the load on the IBM 370/158's.

XI. PRELIMINARY REPORT ON UPCOMING BROOKINGS CONFERENCE

Dr. Harold M. Schoolman, NLM Assistant Deputy Director, reported that NLM has arranged with the Brookings Institution to sponsor a conference on the Translation of National Health Policies into Health Practice, June 1-4, 1977. The purpose of the conference is to provide a forum for an interchange between health policy makers and health practitioners. The conference is another manifestation of NLM's recent emphasis on information services in support of health care planning, administration, and delivery. We hope to gain an insight into this user population and its needs for information resources. Dr. Schoolman outlined the agenda of the conference and listed the approximately 25 people invited to participate. There will be a post-conference report available for distribution, and the Regents will be briefed on the outcome at a future meeting.

XII. DESCRIPTION OF HRA'S HEALTH INFORMATION PROGRAM

Mr. H. Calvin Meadows, Public Health Advisor in the Health Resources Administration's National Health Planning Information Center, described the history and functions of the two-year old NHPIC. The Center facilitates the exchange of information in the area of health services, resources, planning, and methodology. The Center has worked closely with NIH's Division of Computer Resources and Technology and with the National Technical Information Service (NTIS) in developing its program. The Center is not a source of data, but of methods and approaches for health planning.
On request, NTIS provides paper copy and microforms that NHPIC announces. The database of information the Center has created is computerized and searchable by text words. Primary users of the Center's services include health systems agencies, local and state health planning agencies, Federal health agencies, and schools of public health. Health planning information and publications acquired from a variety of sources are not only made available, but synthesized in literature reviews and state-of-the-art reports. The Center also operates a reference and query response service.

XIII. HRA/NLM AGREEMENT ON HEALTH CARE PLANNING LITERATURE

Dr. Schoolman described what NLM is doing to meet its commitments to those concerned with the form of medicine as well as those working in the substance of medicine. One aim is to identify the information relating to health planning and organization that needs to be brought under bibliographic control and to devise a standardized bibliographic mechanism and language for it. Others are to reduce duplication in the handling of this literature (acquiring, cataloging, announcing) and to devise distribution mechanisms to deliver these documents to those who need them. Examples of collaborative projects to date are NLM's involvement with the American Hospital Association to improve the handling and announcement of the professional literature related to hospitals, and NLM's cooperation with the National Health Planning Information Center described by Mr. Meadows.

This latter collaboration led to an agreement between NLM and the Health Resources Administration with the result that the two organizations will cooperate in the following areas: NLM will create and maintain a microfiche archive of the NHPIC collection; NLM will routinely process serials in the "scholarly record" in subjects of interest to NHPIC and will also expand the Medical Subject Headings vocabulary in those subjects; the user community of all Centers and Bureaus in HRA will be identified; the responsibility for nonserial literature will be apportioned between NLM and HRA, although NLM's CATLINE procedures will be followed in all cases; arrangements will be made to prepare abstracts, when necessary, for NHPIC's users; arrangements will be made for access to the NHPIC information pool—incorporating their materials into existing systems or developing supplemental data bases; HRA and NLM regional resources will be involved in the distribution of the material; and a management coordination system between NLM and HRA will be worked out.

XIV. AWARDS

1. Miss Emilie V. Wiggins, Head of NLM's Cataloging Section, was honored with the 1977 NLM Regents' Award for Scholarship or Technical Achievement. In presenting the award, Dr. Volker cited Miss Wiggins both for her efforts to make the NLM catalog file conform fully to the current Anglo-American rules, and for her massive restructuring and modernization of the NLM Classification.

2. The 1977 NLM Director's Award was presented by Dr. Cummings to three employees for their work in connection with the Colloquium on the Bicentennial of Medicine in the U.S. Miss Mary E. Corning, Assistant Director for International Programs, was cited for her work as coordinator of the Colloquium and for her presentation to the Colloquium on the subject of Biomedical
Communications. Dr. John B. Blake and Dr. Peter D. Olch, Chief and Deputy Chief, respectively, of the History of Medicine Division, were cited for their presentations to the Colloquium and for their work in developing NLM's special Bicentennial Exhibit that was on display in the lobby during 1976.

XV. REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS

Dr. Ernest M. Allen pointed out the following items in the DRG Administrative Report:

1. The Government in the Sunshine Act allows meetings to remain closed for the review of grant applications and contract proposals.

2. Under the Privacy Act an individual has the right of access to information pertaining to himself contained in the NIH grant record file. This availability has recently led to rebuttals of study section opinions by principal investigators. Opinions which have previously been confidential can now be requested by the individual under whose name the file is kept. Although the opinions of individual study section members are incorporated into the summary statements and then destroyed, there now exists the possibility that an opinion could be revealed if the summary statement has not been completed. The effect of this has not yet been evaluated by NIH. A number of requests have recently been received by NLM from applicants for copies of the summary sheets prior to final review by the Board of Regents. Since NIH has not yet developed a specific policy to be followed regarding these rebuttals, NLM has set up an interim procedure which was discussed with the Extramural Programs Subcommittee of the Board at its meeting on May 18:

   a. If the request has real validity and concerns itself with scientific merit, rather than burden the Board or Subcommittee, staff will return the application to the study section.

   b. If the request concerns itself with matters other than scientific merit, then staff will bring it to the attention of the EP Subcommittee of the Board.

   c. If neither of the above situations applies, the EP Subcommittee of the Board would be informed of the rebuttal and staff would recommend concurrence with the study section action, without further involving the Board.

3. The number of grant applications to NIH has increased from 6,800 for January 1977 Council meetings to 7,500 for the current round of meetings. Funds, however, have not increased. Dr. Merritt pointed out that one of the reasons for the increase is the trend at NIH toward three-year grants instead of five-year grants. Consequently, applicants have to submit applications sooner and more often, thereby increasing the workload for NIH.

Training of Library Directors:

Dr. Allen addressed the problem of vacant positions for library directors and the absence of qualified people to fill these vacancies. He indicated that Extramural Programs has begun to seek workable solutions. It was found that there is a lack of "deputy" directors in medical libraries who would qualify for the directorships. Candidates with a combination of library/management experience and training are
needed. Various means of training qualified people to acquire these skills were considered, and it was found that the "Management Intern Program," run by the Council on Library Resources (CLR) in cooperation with the Association of Research Libraries, seemed to be the one that was most likely to succeed. Dr. Fred C. Cole, President of CLR, is willing to give NLM all the assistance necessary. For its program, CLR selects, with the aid of a screening committee, five people from approximately 60 candidates. NLM has decided to begin with three trainees for each of two years, who would be trained in a strong medical library and be permitted to take management courses in a nearby accredited business school. CLR's program seems to be run economically and successfully. Two training classes have been completed, and the record of trainees in obtaining more responsible jobs has been good. NLM would have a say in the selection process and is at the moment developing the terms and specifications to be included in a "sole-source" contract. It is hoped that the program can begin in about six to eight months.

Quality of NLM Research Grant Program:

Dr. Allen noted that there has been a general lack of confidence in the quality of the NLM Research Grant Program, and Dr. Cummings has for some time voiced his concern. The study section has rejected a high average of applications. Previous attempts to improve their quality have failed, so NLM has decided to approach the problem in a different manner by involving a group of the best people in the research and information field. Dr. Allen asked for the Board's suggestions on qualified people who might be included in the group, which will be chaired by Dr. John F. Sherman, a member of the Biomedical Library Review Committee, and Vice President of the Association of American Medical Colleges.

The agenda is not yet final, but Dr. Allen noted that some of the discussions will center around research versus resource definitions, and, hopefully, some guidelines will materialize for the study section to follow. Critical advice is needed on whether or not NLM should try to "target" research with only $1 million available. It will also be important to publicize the results of the meetings and discussions so as to reach the greatest number of potential applicants.

Status of Funds:

Dr. Allen noted that the Extramural Programs has $712,000 to award at this meeting, and the priority cutoff will be 210.

MEETING CLOSED FOR REVIEW OF GRANT APPLICATIONS FROM 10:00 A.M. TO 11:00 A.M.

Dr. Roger W. Dahlen, Executive Secretary, Biomedical Library Review Committee, announced the new members of the Committee who will begin their four-year term on July 1, 1977: Professor Pauline A. Atherton, School of Information Studies, Syracuse University; Dr. Gail I. Bank, Director, Division of Continuing Medical Education, School of Medicine, Wayne State University; Ms. Jean K. Miller, Director, The Medical Library Center of New York; and Dr. Warner V. Slack, Associate Professor of Medicine, Harvard Medical School, and Assistant Physician in Medicine, Beth Israel Hospital. They are replacing Dr. Lois DeBakey, Mr. Donald J. Hillman, Miss Nancy M. Lorenzi, and Dr. Josiah Macy, Jr., whose terms end on June 30.
XVI. RESEARCH, RESOURCE, TRAINING, SPECIAL SCIENTIFIC PROJECT, AND PUBLICATION GRANT APPLICATIONS

Before proceeding with the consideration of pending applications, Dr. Dahlen informed Board members and consultants of confidentiality and conflict-of-interest procedures and reminded all appointed Regents and consultants to sign, at the conclusion of the grant review, the statement certifying that they had not participated in the discussion of any applications where conflicts of interest might occur.

The Board concurred with the recommendations of the Extramural Programs Subcommittee. A total of 57 applications was reviewed, of which 35 were recommended for approval, 18 for disapproval, and 4 for deferral. Grant applications recommended for approval by the Board are listed in the summary actions (Attachment "B"). Interim actions taken by EP staff since the last Board meeting in January were noted.

XVII. OTHER BUSINESS

Dr. Cummings asked for the Chairman's permission, in view of the last Presidentially appointed member's leaving the Board, that he be allowed to call on the expertise of at least three ex officio members to form a nominating committee for the selection of the next Chairman of the Board when new members are appointed. He then thanked Dr. Volker for his excellent service as a member and Chairman of the Board and invited him to serve as a consultant to the Board in the coming year.

Dr. Abdellah expressed the thanks from the Board of Regents to the Chairman. In addition, she conveyed the Board's appreciation for Mrs. Karin Colton's unusually fine service to the members of the Board of Regents.

XVIII. ADJOURNMENT

The meeting was adjourned at 11:00 a.m. on Friday, May 20, 1977.

* * * * * * * * * * *

Wednesday, May 18, 1977, 2:00 to 4:30 p.m.  
(EP Subcommittee -- List of Attendees under Attachment "C")  
Thursday, May 19, 1977, 9:00 a.m. to 5:00 p.m.  
Friday, May 20, 1977, 9:00 to 11:00 a.m.  

* * * * * * * * * *
ACTIONS TAKEN BY THE BOARD OF REGENTS

1. The Board concurred with recommendations of the Extramural Programs Sub-committee. Grant applications recommended for approval are listed in the summary actions (Attachment "B").

2. The Board presented the 1977 NLM Regents' Award for Scholarship or Technical Achievement to Miss Emilie Wiggins.

* * * * * * * *

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

Martin M. Cummings, M.D. (DATE)
Executive Secretary

Joseph F. Volker, D.D.S., Ph.D. (DATE)
Chairman

Robert B. Mehnert
Chief
Office of Inquiries and Publication Management
# BOARD OF REGENTS OF THE NATIONAL LIBRARY OF MEDICINE

## CHAIRMAN

VOLKER, Joseph F., D.D.S., Ph.D. (8/3/77)
Chancellor
University of Alabama System
Box BT
University, AL 35486  205-348-5121

## EX OFFICIO MEMBERS

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<tr>
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<tr>
<td>ARENTZEN, Willard P., Vice Adm., MC, USN&lt;br&gt;Surgeon General&lt;br&gt;Department of the Navy&lt;br&gt;Washington, DC 20372  202-254-4153</td>
<td>COX, J. William, Rear Adm., MC, USN&lt;br&gt;Assistant Chief for Human Resources and Professional Operations&lt;br&gt;Bureau of Medicine &amp; Surgery (Code 3)&lt;br&gt;Department of the Navy&lt;br&gt;Washington, DC 20372  202-254-4180</td>
</tr>
<tr>
<td>BOORSTIN, Daniel J., Litt.D.&lt;br&gt;Librarian of Congress&lt;br&gt;10 First Street, S.E.&lt;br&gt;Washington, DC 20540  202-426-5205</td>
<td>WELSH, William J.&lt;br&gt;Deputy Librarian of Congress&lt;br&gt;10 First Street, S.E.&lt;br&gt;Washington, DC 20540  202-426-5215</td>
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<td>CHASE, John D., M.D.&lt;br&gt;Chief Medical Director&lt;br&gt;The Veterans Administration&lt;br&gt;Washington, DC 20420  202-389-2596</td>
<td>MAYER, Dr. William D.&lt;br&gt;Assistant Chief Medical Director for Academic Affairs (14)&lt;br&gt;Department of Medicine &amp; Surgery&lt;br&gt;The Veterans Administration&lt;br&gt;810 Vermont Avenue, N.W.&lt;br&gt;Washington, DC 20420  202-389-5093</td>
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<tr>
<td>CLARK, Eloise E., Ph.D.&lt;br&gt;Assistant Director for Biological, Behavioral, and Social Sciences&lt;br&gt;National Science Foundation&lt;br&gt;1800 G Street, N.W.&lt;br&gt;Washington, DC 20550  202-632-7867</td>
<td>none</td>
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<tr>
<td>EHRLICH, S. Paul, Jr., M.D.&lt;br&gt;Acting Surgeon General&lt;br&gt;U.S. Public Health Service&lt;br&gt;Rockville, MD 20852  301-443-1774</td>
<td>ABDELLAH, Dr. Faye G.&lt;br&gt;Assistant Surgeon General&lt;br&gt;Chief Nurse Officer, USPHS, and Director, Office of Long-Term Care, H Parklawn Building, Room 17B17&lt;br&gt;5600 Fishers Lane&lt;br&gt;Rockville, MD 20852  301-443-6497</td>
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BOARD OF REGENTS' Roster, continued

TAYLOR, Richard R., Lt. Gen., MC, USA
The Surgeon General
Department of the Army
Washington, DC 20314  202-697-1295

RICHARDS, John C., 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

EXECUTIVE SECRETARY

CUMMINGS, Martin M., M.D.
Director
National Library of Medicine
Bethesda, MD 20014  301-496-6221
APPLICATIONS RECOMMENDED FOR APPROVAL BY COUNCIL 1/
(Arranged numerically by program)

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE

<table>
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<th>APPLICATION NUMBER</th>
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<td>PREPARATION OF BIOGRAPHY OF WALTER BRADFORD CANNON</td>
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| 1 K10 LM 00008-01  | 01 U.S. MUNICIPAL HOSPITALS                       | 11,577
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| 1 K10 LM 00009-01  | 01 THE THIRD CULTURE (A TEXT ON SPORTS MEDICINE)  | 20,552
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| 1 K10 LM 00010-01  | 01 SPECIAL SCIENTIFIC PROJECT: PRIORITIES FOR HEALTH R&D | 48,344 |
|                    | 02 SPECIAL SCIENTIFIC PROJECT: PRIORITIES FOR HEALTH R&D | 7,960 |

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BOARD OF REGENTS

Extramural Programs Subcommittee Meeting

May 18, 1977

ATTENDEES

Subcommittee Members Present:

Dr. Faye G. Abdellah
Mrs. Bernice M. Hetzner
Dr. Saul Jarcho
Dr. Doris H. Merritt

NLM Staff Present:

Dr. Martin M. Cunnings, Director
Dr. Harold M. Schoolman, Assistant Deputy Director
Dr. Ernest M. Allen, Associate Director for Extramural Programs
Mr. Arthur J. Broering, Deputy Associate Director for Extramural Programs
Dr. Jeanne L. Brand, Chief, International Programs Division, EP
Dr. Roger W. Dahlen, Chief, Division of Biomedical Information Support, EP
Mrs. Helen S. Benninson, Grants Management Specialist, EP
Mr. Peter A. Clepper, Program Officer, EP
Mrs. Karin K. Colton, Committee Management Assistant
Mrs. Frances E. Johnson, Program Officer, EP
Mrs. Kathleen M. Nichols, Grants Management Assistant, EP
Mrs. Marguerite Pusey, Grants Management Specialist, EP
Dr. Dorothy A. Stroup, Program Officer, EP
Mr. Randall Worthington, Program Officer, EP
Dr. Galina V. Zarechnak, Program Officer, EP