

AGENDA

Thirty-second Meeting of the  
BOARD OF REGENTS  
National Library of Medicine  
9:00 a.m., March 24-25, 1969  
Board Room 139

- I. CALL TO ORDER AND INTRODUCTORY REMARKS Dr. Stewart Wolf
- II. CONSIDERATION OF MINUTES OF LAST MEETING TAB I  
(orange book) Dr. Stewart Wolf
- III. DATES OF FUTURE MEETING TAB II Dr. Stewart Wolf  
1969-70 Calendars in all books  
Next meeting - June 19-20, 1969  
Subsequent Meeting - November 20-21, 1969  
Selection of Meeting Date - March 1970  
Date circled is one preferred  
Possible dates: 19-20, 23-24, (26-27)
- IV. REMARKS BY THE ASSISTANT SECRETARY FOR  
HEALTH AND SCIENTIFIC AFFAIRS
- V. REPORT OF THE DIRECTOR, NLM TAB III Dr. Martin Cummings
- VI. CONFERENCE ON COMMUNICATIONS FOR MEDICAL TAB IV Dr. Stewart Wolf  
EDUCATION AND RESEARCH  
a. History  
b. Purpose
- VII. ASSOCIATION OF AMERICAN MEDICAL COLLEGES/  
COUNCIL OF ACADEMIC SOCIETIES - REPORT ON  
NLM CONFERENCE Dr. Cheves Smythe
- VIII. REPORT ON ORAL HISTORY PROGRAM TAB V Dr. Peter Olch  
  
LUNCH
- EXTRAMURAL PROGRAMS
- IX. REPORT OF THE ASSOCIATE DIRECTOR, EP Mr. David Kefauver  
  
DRG Administrative Report TAB I  
(gray book)  
  
CONSIDERATION OF PENDING APPLICATIONS  
  
A. RESEARCH AND PUBLICATION GRANTS TAB II  
  
B. TRAINING GRANTS TAB III
- X. REPORT OF THE TECHNICAL ADVISORY TAB VI Mr. Edward McClellan  
COMMITTEE, NATIONAL MEDICAL  
(orange book)  
AUDIOVISUAL CENTER

XI. INTRODUCTION OF DR. MARSHALL W. NIRENBERG  
(Nobel Laureate for 1968)

Dr. Martin Cummings

Film Showing: "DNA: Blueprint for Life"

Presentation of: "The Genetic Code - and How it Works" (Exhibit on display in NLM Lobby)

ADJOURNMENT

DINNER (DUTCH TREAT) - Ballroom of the Walter Reed Army Medical Center  
Officers Open Mess

Bus departs Library 6:30 - stopping at three Bethesda motels enroute  
and for return.

Cocktails 7:00 p.m.

Dinner 8:00 p.m.

REGENT SPEAKER - MR. ALFRED ZIPF - Subject: "The Cashless Checkless Society"

RECONVENE - 9:00 a.m. - March 25, 1969

XII. LISTER HILL NATIONAL CENTER FOR BIOMEDICAL TAB VII  
COMMUNICATIONS

INTRODUCTION

Dr. Ruth Davis

CONTRACTOR REPORTS:

A. Systems Development Corporation

Dr. C. Cuadra

B. Massachusetts Institute of Technology/  
Lincoln Laboratory

Mr. J. Nolan

C. Stanford Research Institute

Mr. C. Rosen

D. EDUCOM

Mr. J. Becker

E. Rand Corporation

Dr. S. Koslov

DISCUSSION

LUNCH (For Members of Board of Regents and NLM Key Staff - Catered -  
Billings Conference Room)

XIII. EXECUTIVE SESSION

XIV. OTHER BUSINESS

ADJOURNMENT

THE BOARD OF REGENTS  
of the  
NATIONAL LIBRARY OF MEDICINE

MINUTES OF THE 32ND MEETING

March 24-25, 1969 - Bethesda, Maryland

MEMBERS PRESENT:

Dr. William G. Anlyan, Mr. Bruno W. Augenstein, Dr. William B. Bean, Vice Admiral George M. Davis, USN, Dr. Robert H. Ebert, Dr. Max Michael, Jr., Dr. L. Quincy Mumford, Dr. Kathryn M. Smith, Dr. George W. Teuscher, Dr. Frederick H. Wagman, Dr. Stewart G. Wolf, Jr., Mr. Alfred R. Zipf

MEMBERS ABSENT:

Dr. Harve J. Carlson, Dr. H. Martin Engle, Lt. General L. D. Heaton, USA, Lt. General Kenneth E. Pletcher, USAF, Dr. William H. Stewart

ATTENDEES:

Dr. Burton W. Adkinson represented Dr. Harve J. Carlson, National Science Foundation, first day only

Colonel William G. Dunnington represented Lt. Gen. L. D. Heaton, USA, both days

Colonel Gerrit Hekhuis, USAF represented Lt. Gen. Kenneth E. Pletcher, USAF, both days

Dr. Harold Schoolman represented Dr. H. Martin Engle, Veterans Administration, both days

Captain Charles L. Waite, USN, attended with Vice Admiral George Davis, USN, first day, and represented Vice Admiral George Davis on the second day

ESTS:

Dr. Robert Marston, Director, National Institutes of Health

Dr. John F. Sherman, Deputy Director, National Institutes of Health

Dr. Donald Chill, Office of Program Planning and Evaluation, NIH, representing Dr. Thomas Kennedy

Mrs. Ileen Stewart, Executive Secretary, History of Life Sciences Study Section and Biomedical Communications Study Section, DRG, NIH

Miss Cecelia Conrath, Acting Chief, Continuing Education and Training Branch, Regional Medical Programs, Health Services and Mental Health Administration, PHS

Dr. Marshall W. Nirenberg, First NIH Nobel Laureate

Professor Sune Bergstrom, Professor of Biochemistry at Karolinska Institutet and the Medical School of Stockholm, Sweden

Dr. Cheves Smythe, Associate Director for Association of American Medical Colleges, Evanston, Illinois

**UESTS:** (Cont'd) Dr. Jordan Baruch, President, Inter-University Communications Council, (EDUCOM), Boston, Massachusetts

Mr. Joseph Becker, Vice President, Inter-University Communications Council, (EDUCOM), Bethesda, Maryland

Mr. Tad Mayeda, Research Associate, Inter-University Communications Council, (EDUCOM), Bethesda, Maryland

Dr. Samuel Koslov, Research Council, RAND Corporation, Washington, D.C.

Mr. Lee Attaway, Associate Head for Public Studies, System Sciences Department, RAND Corporation, Santa Monica, California

Dr. Carlos Cuadra, Department Manager, Library & Documentation Systems Department, System Development Corporation, Santa Monica, California

Dr. Robert Katter, Senior Research Leader, Library and Documentation Systems Department, System Development Corporation, Santa Monica, California

Mr. Jack Nolan, Massachusetts Institute of Technology, Lincoln Laboratories, Lexington, Massachusetts

Mr. Charles Rosen, Manager, Artificial Intelligence Group, Stanford Research Institute, Menlo Park, California

Dr. Fred Cole, President, Council on Library Resources, Inc., Washington, D. C.

Mr. Lawrence Livingston, Council on Library Resources, Inc., Washington, D. C.

Mr. John Sherrod, Director, National Agricultural Library, Washington, D. C.

**AFF:** Dr. Martin Cummings, Mr. Scott Adams, Mr. Alfred Asch, Dr. Clifford Bachrach, Dr. John Blake, Dr. Jeanne Brand, Mr. Huly Bray, Mr. Arthur Broering, Mr. Kenneth Carney, Mr. Peter Clepper, Mr. Lawrence Coffin, Mr. Salvatore Costabile, Miss Mary Corning, Dr. Ruth Davis, Mr. Donald Dennis, Mr. Allan Doris, Dr. Malcolm Ferguson, Mr. Herbert Fockler, Mr. Joseph Foley, Mrs. Louise Gamage, Mr. James Hill, Mr. David Kefauver, Dr. Joseph Leiter, Mr. Davis McCarn, Mr. Edward McClellan, Dr. G. Burroughs Mider, Miss Marilyn Miller, Mr. Dan Mills, Dr. Peter Olch, Mr. Ben Parker, Mrs. Rita Pusey, Dr. Charles Rice, Mr. George Russell, Mrs. Ann Sabin, Dr. Norman Shumway, Mr. Ralph Simmons, Mr. Stanley Smith, Mr. Kenneth Styers, Mr. Zane Thornton, Mr. Samuel Waters.

NEW STAFF MEMBER INTRODUCED

Dr. Cummings introduced Mr. Donald D. Dennis, Chief of Reference Services Division in Library Operations. Mr. Dennis was formerly the Health Sciences Librarian with the University of Michigan.

NOVEMBER 1968 MINUTES APPROVED, FORTHCOMING MEETINGS SCHEDULED

The minutes of the November 25-26, 1968 meeting were approved. The dates of June 19-20, 1969 and November 20-21, 1969 were reaffirmed. The dates of March 26-27, 1970 were tentatively selected for the second meeting in FY 1970.

REPORT OF DIRECTOR, NLM

Dr. Cummings reviewed the NLM budget submission for FY 1970, noting that Library construction money had been transferred to the Bureau of Health Professions Education and Manpower Training. In the event of reductions in the FY 1970 budget, the MEDLARS II commitments would be protected, and required cuts absorbed by other components of NLM. The Library will have four appearances before Congressional Committees this year rather than two, since the Medical Library Assistance Act is due for renewal.

Staffing at NLM, including the National Medical Audiovisual Center (NMAC), at the end of this fiscal year is projected at 485 positions. It was noted that the NLM strength, less personnel in the new programs (Lister Hill National Center for Biomedical Communications, Specialized Information Services, NMAC), was comparable to that of twenty years ago--when the budget was much smaller and services considerably less in volume than now.

Dr. Cummings reported on the efforts of the National Medical Audiovisual Center to develop a solution to media distribution workload problems. With demands for loan services exceeding existing manpower resources to handle them, non-health related groups now receive lowest priority. Loan services to high schools, service organizations, etc., are due to be transferred to the General Services Administration after July 1, 1969.

The Director stated that as a result of strong representations from Georgia interests, the Audiovisual Center will not be moved from Atlanta, Georgia to Bethesda, Maryland.

Following the general recommendations of the President's Commission on Libraries, bills have been introduced in Congress calling for the establishment of a National Commission on Libraries and Information Science.

At a recent Committee on Scientific and Technical Information (COSATI) meeting, it was proposed that the National Agricultural Library, National Library of Medicine, National Aeronautical and Space Administration and the Atomic Energy Commission be named the first group of responsible agencies to coordinate and improve the handling of scientific and technical information within their areas of mission interest. MARC II standards were adopted for the format of machine-readable bibliographic information relating to technical reports.

The Director reported progress by the National Libraries Task Force on systems development relating to compatibility in machine-readable cataloging, but that comparable progress was not being made towards a national serial data bank.

Dr. Cummings called on Dr. Burton W. Adkinson, National Science Foundation, who reported that the Committee on Scientific and Technical Communications (SATCOM) of the National Academy of Sciences has recommended the creation of a broadly representative and high prestige non-Governmental body to stimulate greater national coordination of information handling efforts among both profit and non-profit private interests. Such a body could serve as a channel for their interaction with public policy making groups and should operate within the Academy structure.

Mr. Scott Adams, Deputy Director, NLM, reporting on some aspects of the Library's international activities, stated that the proposal for a consortium to develop a MEDLARS system in Europe, under sponsorship of the Organization for Economic Cooperation and Development, has been abandoned. Bilateral agreements will be concluded between NLM and specific organizations at the rate of one per year. The first will be the Institut National de le Santé et Recherche Médicale (INSERM) in France. An agreement for a MEDLARS system has been concluded with Australia.

Mr. Adams reported on the International Council of Scientific Unions (ICSU) - UNESCO Joint Project for studying the feasibility of a World Science Information System. Attention will be focused on the interconnections between large developing systems, both national and international; on standardization of bibliographic descriptions; and on problems of natural and artificial language.

#### REPORT ON CONFERENCE "COMMUNICATIONS FOR MEDICAL EDUCATION AND RESEARCH"

Dr. Stewart Wolf, Moderator of this Conference designed to assist planning for the Lister Hill Center and held at the Library in December 1968, expressed some disappointment in the meeting due to the emphasis on modern technology. It was recommended by the group that the Lister Hill Center's Biomedical Communications Network (BCN) become involved first in continuing medical education as a means of helping physicians broaden their knowledge and understanding of clinical problems. It was agreed that a national advisory group on content, and a pilot program were needed as first steps. In Board discussion, the urgency for action rather than immobilization was stressed. A unifying force was required around which efforts of many organizations and agencies could be coordinated with regard to production costs, distribution mechanisms and utilization systems. The Library could be such a force, and an experimental model should be developed with the BCN as an essential part of this venture.

#### REPORT ON "CONFERENCE ON POTENTIAL EDUCATION SERVICES FROM A NATIONAL BIOMEDICAL COMMUNICATIONS NETWORK"

This conference, designed to provide guidance to NLM in providing educational services through the BCN, was held in February 1969. It was arranged by the Council of Academic Societies, Association of American Medical Colleges (AAMC), and reported on by Dr. Cheves Smythe, Associate Director, AAMC.

Unqualified support for a Biomedical Communications Network was expressed by the participants, with emphasis to be placed on undergraduate and post-graduate medical education. The conference had eight well-defined objectives relating to educational materials, technologies, distribution mechanisms, and effective utilization of media and equipment. The need for a "floor" rather than a "core" of professional knowledge was stated. Comment was made on the disordered fashion of collecting medical data, and on the potential of computers and modern communications technology. There was heavy emphasis on the need for evaluation of services offered by the BCN, with attention being paid to behavioral changes in people using them.

It was agreed that there is the body of knowledge, skills, and concepts common for all medical schools which constitutes a national resource. Not all medical schools can provide ready access to this body of knowledge; modern techniques and technology can assist in such provision, and information should be made available with local option as to its use within any institution.

A communications model was again called for in the development of improved information transfer. It was finally suggested that methods of extending this information transfer to continuing education would evolve from the experience with undergraduate and postgraduate education.

#### REPORT ON ORAL HISTORY PROGRAM

Dr. Peter Olch, Deputy Chief, History of Medicine Division, and in charge of this Program, reported on this two-year old activity at NLM. Two hundred hours of history are on audio tape. Five in-depth histories have been completed and there are several shorter tape recordings of historical significance. Dr. Olch concluded his report by playing excerpts from statements by Dr. A. Baird Hastings, Senator Lister Hill, and Dr. Denton Cooley.

#### CEREMONY HONORING DR. MARSHALL NIRENBERG

The Board participated in an informal ceremony during the first afternoon, when as a body they congratulated Dr. Marshall Nirenberg of NIH who was recently awarded the Nobel Prize for his work on the definition of the genetic code. A bound citation from the Board was given to Dr. Nirenberg. Dr. Sune Bergstrom, Karolinska Institutet, Stockholm, and Chairman of the Nobel Committee for Medicine or Physiology, was present for the occasion. Dr. Robert Marston, Director of NIH, commented on the good feeling that the Nobel award had generated at NIH. A film "DNA: Blueprint for Life" was shown and the Board members inspected the new exhibit on the "Genetic Code" that was located in the lobby. This included the British-made fifteen foot high DNA model erected in the catalog area.

#### REPORT OF TECHNICAL ADVISORY COMMITTEE, NMAC

Mr. Edward McClellan, Deputy Director, NMAC, reported on the November 1968 meeting of this five-man committee authorized by the Board earlier in the year. The members were asked to address themselves to a series of problems relating to audiovisual systems planning, recruitment and career development

of personnel, effective use of educational media, color television production, and establishment of a videotape distribution center. They were further asked to make recommendations regarding services that will utilize technology at the lowest possible cost and to concern themselves with the technical quality of NMAC operations.

The Committee recommended that NMAC develop publications on learning facilities, frame multi-media teaching packages, and make use of contracts and consultants in supporting communications development in biomedical institutions.

In Board discussion, it was noted that the Committee did not consider broad issues relating to design of learning materials for specific groups, but had rather limited its discussion to facilities, equipment and technology. It was recognized, however, that the committee could not be expected to address itself to the content or substance of audiovisual communication, and that another mechanism needed to be developed for this. It was noted that evaluation was a "missing link" in the NMAC program. The role of the Center as a central facility and its relationship to regional centers required definition. It was recognized that NMAC could play a valuable role as custodian and distributor of media. The need for individuals with knowledge of subject matter, production methods, and technology to stand at the interface between media production agencies and the educator-learner groups was emphasized.

#### REPORT ON DISCUSSION OF THE ROLE OF LISTER HILL NATIONAL BIOMEDICAL COMMUNICATIONS CENTER IN MEDICAL EDUCATION

As a result of the Reports in Sections III and IV above, there was a lengthy discussion of the area of medical education toward which the Lister Hill Center should first channel its efforts -- continuing, or undergraduate and postgraduate, medical education. The Board appeared to favor emphasis on support for medical school instructional programs. Students are highly motivated, and adapt to the new approaches that are available and necessary, and the educator groups are used to working with Federal Governmental agencies. It was brought out that we are now in a "continuous learning society" and that medical school education could also relate to continuing education, the needs of which are difficult to define. The desirability of a close working relationship between NIM and the AAMC, both with regard to substance and technical aspects of medical education, was emphasized. The sources of ideas for new approaches received considerable attention and it was agreed they came not from committee action but from individuals in diverse groups and institutions. Board members confirmed the need to develop a "model" for evaluation, an explicit demonstration that there is a need for learning materials and knowledge transmission facilities and that there are means of filling these needs.

#### LISTER HILL NATIONAL CENTER FOR BIOMEDICAL COMMUNICATIONS CONTRACTS ORIENTATION

Dr. Ruth Davis, Director of the Center, stated that the Lister Hill Center has four main functions: establishment of a biomedical communications network (BCN), application of communications technology to purposes of the



medical community, serving as a focal point for coordination of various types of communications activity in DHEW, and to provide liaison for DHEW regarding these matters with other Governmental agencies. The efforts of the Center's contractors relate primarily to the development of the BCN, determination of existing resources, and the use of communications technology in organizing and transmitting medical knowledge. These activities are concerned with systems technology, communications technology, computer technology and content production.

Reports were given by representatives of five of the Center's contractors:

1. Systems Development Corporation (by Dr. C. Cuadra)

Efforts under this contract relate to assisting the Lister Hill Center in developing performance criteria and specifications for the user-system interface and those components of the BCN involving on-line information retrieval.

The NLM - ORBIT resource will be used as an experimental facility by personnel skilled in literature searches. From this and other studies will result a set of empirically-based guidelines to assist the Center staff in development of on-line retrieval interface aspects of the BCN.

2. Lincoln Laboratory, Massachusetts Institute of Technology (by Mr. J. Nolan)

This project takes advantage of MIT hardware capability to begin the evolutionary development of an interactive capability to use and manipulate the vocabulary of MeSH (Medical Subject Headings).

A data base has been constructed containing MeSH terms that permit searching for alphabetical terms on all or a fraction of a word or the entry at a node in the hierarchical structure. Vocabularies from other information systems can be input to the system and it will be possible to enter a word from one of those systems and find the equivalent MeSH term, thus allowing access to the MEDLARS system.

3. Stanford Research Institute (by Dr. C. Rosen)

The purpose of this contract is the development of capabilities for remote viewing and manipulation of textual and graphical materials, and remote interrogation of stored information by means of question-answering techniques.

Studies to date have resulted in the following preliminary design concept for implementing remote viewing: use of microfiche, video images to be transmitted by television channels devoted to the BCN, a capability for local storage of a complete video frame, and a display that would handle text and simple graphical information and ultimately "browsing" features when technology and economics permitted. One program has been written for a drug information system.

4. EDUCOM (by Mr. J. Becker)

This is a study of the total environment in which the BCN might function, and an attempt to anticipate the needs of the information systems designer with respect to the characteristics of the medical community, and elements of the new technology applicable to a multimedia network.

The information network for farmers set up many years ago and involving the Land Grant Colleges, Agricultural Experiment Stations, 4-H Clubs, and with the cooperation and substantial financial support of the Department of Agriculture was cited as a model for development of the BCN. The Lister Hill Center has been provided with a series of research memoranda on such topics as: a survey of health science libraries, need for a medical information network to service physicians, communications capabilities in medical schools, and the role of audiovisual materials in enhancing the learning process.

5. Rand Corporation (by Dr. S. Koslov and Mr. D. L. Attaway)

Rand's contract calls for providing the Lister Hill Center with systems design and management support services in selecting, defining, and designing educational and other public benefit services falling primarily within the responsibility of DHEW.

This study involves ascertainment of present formal continuing education activities, the economics and feasibility of extending existing activities of national importance, and attempting to determine what role technology might play in the future in continuing education.

Board discussion of the presentations pointed up the need for the contractors to enlist the assistance of knowledgeable physicians and other subject matter specialists in developing their models. It was questioned as to whether there was free communication between the contractors and professional groups working on clinical decision systems. The sophistication of the technology for a communications network was contrasted with the inadequacies of much of present day medical practice. The raising of the level of productivity of the physician through BCN activity had been mentioned by contractors and the question was asked "Would he see more patients, or do a better job of diagnosis and treatment?" The Board considered improved patient care to be the primary goal of continuing medical education. There was recognition of the proposition that the physicians must be introduced to and helped to feel comfortable with the changing communications technology. The most important aspect of continuing medical education is a cultivation of the physician's skill in eliciting evidence regarding the health of his patients.

EXTRAMURAL PROGRAMS 1/ 2/ 3/

Council Operating Procedures

Reaffirmed by the Board at its June 1968 meeting. We will conform to reviewing these procedures beginning November 1969.

- 1/ Proceedings of meetings are restricted unless cleared by the Office of the Director, National Institutes of Health. The restriction relates to all material submitted for discussion at the meetings, the agenda for the meetings, the supplemental material, and all other official documents.
- 2/ For the record, it is noted that members absent themselves from the meeting room when the Board has under individual discussion applications (a) from their respective institutions, (b) in which a conflict of interest might occur.
- 3/ The Board of Regents, when considering the Extramural Programs of the NLM, also consists of the Board of Regents Advisory Council for Extramural Programs and National Medical Libraries Assistance Advisory Board and concurrently discharges the responsibilities of all three bodies.

REPORT OF THE EXTRAMURAL PROGRAMS

Mr. David F. Kefauver, Associate Director for Extramural Programs, reported on the status of the reorganization of the construction program in PHS. He advised the Board of the redelegation of authority by the Director, NIH, of this program to the Bureau of Health Professions Education and Manpower Training (formerly Bureau of Health Manpower). Other than the redelegation of authority and transfer of funds, we have not as yet received instructions as to how it will be organized or how it relates to the centralized program. He did assure the Board of Regents that they will continue to have final review of all construction projects reviewed under the Library Assistance Act.

Mr. Kefauver spoke briefly about the preparation of the extensions of authority under the Medical Library Assistance Act, that it had been presented to Congress in January, but as yet had not been introduced. He spoke of his intentions of submitting the final "black book" justification for continuation of the program and as a matter of interest he advised the Regents that this Bill was sent back to DHEW by the new Administration.

Attention was called to the latest legislative developments and the recent changes in the administration of grants as outlined in the DRG Administrative Report. The Board was reminded of the confidentiality of the proceedings.

Mr. Kefauver stated that he didn't see the need for calling a meeting of the Subcommittee for Extramural Programs for this Board meeting. He did, however, state that he gave review assignments to the members of the Subcommittee by mail and that they would be noted in the order that they would be taken up in the book.

CONSIDERATION OF PENDING APPLICATIONS

The Board of Regents acting concurrently as the Board of Regents Advisory Council for Extramural Programs and as the National Medical Libraries Assistance Advisory Board, reviewed the following grant applications:

Research and Publication Grants	Reviewed	27	\$ 689,267
	Approved	13	299,663
	Disapproved	13	364,874
	Deferred	1	24,730
Training Grants	Reviewed	1	\$ 108,000
	Approved	1	108,000
	Disapproved	-	--
	Deferred	-	--

Summaries of Board actions on all Extramural Grant Programs are appended to these minutes.

Respectfully submitted,



Martin M. Cummings, M.D.  
Executive Secretary to the Board of Regents  
National Library of Medicine

NATIONAL LIBRARY OF MEDICINE

RESUME OF BOARD OF REGENTS RECOMMENDATIONS

March 24-25, 1969

RESEARCH & PUBLICATION GRANT APPLICATIONS

<u>Application No., Investigator and Institution</u>	<u>Initial Review Group</u>	<u>FY</u>	<u>Year</u>	<u>Requested</u>	<u>IRG Recommendation</u>	<u>BOARD OF REGENTS</u>	
						<u>Approval</u>	<u>Priority</u>
3 RO1 LM 00212-01S1 (Publ) Kerker, Ann E. Purdue Research Foundation Lafayette, Indiana "Literature Sources in the Biological Sciences, a revision"	BCM	69	01S1	\$ 4,644	Disapproval		DIS
3 RO1 LM 00577-02S1 (Publ) Lane, Harlan L. The University of Michigan Ann Arbor, Michigan "International Thesaurus for Language and Communication"	BCM	69	02S1	9,693	\$ 9,693	\$ 9,693	390
1 RO1 LM NB 00579-01A1 (Publ) Hall, Victor E. University of California Los Angeles, California "Continuously Updated Reviews in Basic Neurology"	BCM	69	01A1 02 03	58,280 65,758 77,259	Disapproval		DIS
1 RO1 LM 00674-01 (Publ) Freyman, Moye W. University of North Carolina Chapel Hill, North Carolina "International Community Medicine"	BCM	69	01 02	23,088 25,106	23,088 25,106	23,088 25,106	160

RESEARCH & PUBLICATION GRANT APPLICATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	BOARD OF RECEIPTS		
					IRG Recommendation	Approval	Priority Other
2 R01 LM 00686-02 (Pub1) Swindler, Daris R. University of Washington Seattle, Washington "Anatomy of Primates"	BCM	70	02	\$26,856	\$ 26,856	\$ 26,856	180
1 R01 LM 00689-01 Hyatt, George W. Georgetown University Washington, D. C. "Study of Scientific Communi- cation in Orthopedics"	BCM	69	01 02	24,817 21,990	24,817 21,990	24,817 21,990	180
1 R01 LM 00719-01 (Pub1) Hardy, Nancy F. University of Utah Salt Lake City, Utah "Vital Notes on Medical Periodicals"	BCM	69	01 02	24,730 26,670	Deferral		DEF
1 R01 LM 00720-01 Sager, Naomi New York University New York, New York "Science-Sublanguage Grammars"	BCM	69	01 02 03	55,218 51,000 53,200	55,218 51,000 53,200	55,218 51,000 53,200	270
1 R01 LM 00721-01 (Pub1) Dayhoff, Margaret O. National Biomedical Research Foundation Silver Spring, Maryland "Reference Data, Atlas of Protein Sequence & Structure"	BCM	69	01 02 03 04 05	39,682 43,650 48,015 52,816 58,097	39,682 43,650 48,015 52,816 58,097	39,682 43,650 48,015 52,816 58,097	150

RESEARCH & PUBLICATION GRANT APPLICATIONS

BOARD OF REGENTS  
Recommendation  
Approval   Priority   Other

Application No., Investigator   Initial   IRG   Requested   Year   FY   Review Group   Recommendation   Disapproval   DIS  
and Institution

1 R01 LM 00724-01   BCM   69   01   \$65,455   Disapproval   DIS  
 Hersey, David F.  
 Smithsonian Institution  
 Washington, D. C.  
 "Information System  
 Input/Output Effort Model"

1 R01 LM 00725-01 (Publ)   BCM   69   01   9,000   Disapproval   DIS  
 Fitzgerald, Paul R.  
 University of Illinois  
 Urbana, Illinois  
 "Publication of Translated  
 Russian Toxoplasmosis Book"

1 R01 LM 00726-01   BCM   69   01   22,935   Disapproval   DIS  
 Pings, Vern M.  
 Wayne State University  
 Detroit, Michigan  
 "Study for Clinical  
 Reference Service"

1 R01 LM 00730-01 (Publ)   BCM   69   01   11,150   \$ 11,150   \$ 11,150   310  
 Williams, Charles R. M.  
 American Academy of Periodontology  
 Chicago, Illinois  
 "A Thesaurus of Periodontology"

RESEARCH & PUBLICATION GRANT APPLICATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	BOARD OF REGENTS	
					IRG Recommendation	Recommendation Priority
1 R01 LM 00734-01 (Publ) Briggs, George M. The University of California Berkeley, California "Development of Journal of Nutrition Education"	BCM	69	01 02 03	\$27,046 14,990 8,391	\$ 27,046 14,990 8,391	200
1 R01 LM 00739-01 Darling, Louise The University of California Los Angeles, California "On-Line Computer Based Serials Control System"	BCM	69	01 02	33,750 54,252	33,750 54,252	240
1 R01 LM 00752-01 (Publ) Friedenberg, Robert M. University of Maryland Baltimore, Maryland "Pioneering Concepts in Modern Science"	BCM	69	01 02 03	3,470 3,470 3,470	Disapproval	DIS
1 R01 LM 00755-01 (Publ) Sollers-Riedel, Helen Entomological Society of America "Synthesis of Literature on Mosquitoes"	BCM	69	01 02 03 04	15,540 15,985 16,670 17,415	15,540 15,985 16,670 17,415	220

RESEARCH & PUBLICATION GRANT APPLICATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 RO1 HD 04349-01 Dual LM (Publ) Carp, Frances M. Langley Porter Neuropsychiatric Institute San Francisco, California "Adult Development: Community Aging Manuscript"	DBR	69	01 02 03	\$25,624 31,939 31,005	Disapproval			DIS
1 RO1 LM 00727-01 Weiss, Daniel L. The University of Kentucky Lexington, Kentucky "History of Leprosy in Europe"	HLS	70	01	23,997	Disapproval			DIS
1 RO1 LM 00728-01 Howard, R. Palmer University of Oklahoma Foundation, Inc. Oklahoma City, Oklahoma "Health in Indian and Oklahoma Territories before 1900"	HLS	70	01 02	11,698 11,698	\$ 11,698 11,698	\$ 11,698 11,698	220	
1 RO1 LM 00729-01 Smith, Noel W. The Research Foundation of State University of New York Albany, New York "A Social and Conceptual History of Psychology"	HLS	69	01 02	16,639 3,924	Disapproval			DIS



RESEARCH & PUBLICATION GRANT APPLICATIONS

BOARD OF REGENTS  
Recommendation  
Approval Priority Class.

Application No., Investigator      Initial      IRG  
and Institution      Review Group      Recommendation

FY      Year      Requested      Approval      Priority      Class.

1 R01 IM 00731-01      HLS      69      01      \$ 11,576      Disapproval      DIS

Hilger, Sister Mary Ione  
 Annunciation Priory, Inc.  
 Bismarck, North Dakota  
 "Biography: Dr. Charles A. Eastman"

1 R01 IM 00732-01      HLS      69      01      2,265      Disapproval      DIS

Forbes, Thomas R.  
 Yale University  
 New Haven, Connecticut  
 "Verbal Charms in Folk Medicine"

1 R01 IM 00733-01      HLS      69      01      9,413      Disapproval      DIS

Ross, Dorothy R.  
 The George Washington University  
 Washington, D. C.  
 "Biography of G. Stanley Hall,  
 1895-1924"

1 R01 IM HD 00722-01 (Publ)      REB      70      01      20,500      \$ 20,500      269

Mossman, Harland W.  
 The University of Wisconsin  
 Madison, Wisconsin  
 "Vertebrate Fetal Membranes"

1 R01 IM PM 00749-01      SSS      69      01      111,576      Disapproval      DIS

Howe, Chester W.  
 Boston University School of  
 Medicine  
 Boston, Massachusetts  
 "Studies on Audiovisual Teaching  
 in Medical School"

02      75,108  
 03      71,829  
 04      75,810  
 05      80,070  
 06      38,950

02      20,700      20,700  
 03      29,800      29,800

RESEARCH & PUBLICATION GRANT APPLICATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 R01 LM 00723-01 (Pub1) Furst, Arthur University of San Francisco San Francisco, California "A Review on Hydrazines Toxicity"	TOX	69	01	\$ 625	\$ 625			315

NATIONAL LIBRARY OF MEDICINE

RESUME OF BOARD OF REGENTS RECOMMENDATIONS

MARCH 24-25, 1969

TRAINING GRANT

<u>Grant Number</u>	<u>Program Director &amp; Institution</u> <u>Year, Amt. Req.</u> (Direct Costs Only)	<u>Stipend</u>	<u>Committee Recommendation</u> <u>Amt. Recomm.</u>	<u>Stipend</u>	<u>Requested</u> <u>Begin. Date</u> <u>Priority</u>	<u>BRACEP</u> <u>Action</u>	
1 TO1 LM 00132-01 MT(Ahr)	Boaz, Martha University of Southern California Los Angeles, California						
	01	\$148,151	\$31,200	\$108,000	\$31,200	7/1/69	APPROVAL
	02	205,439	64,000	170,000	64,000	160	
	03	210,367	64,000	175,000	64,000		
	04	215,591	64,000	180,000	64,000		
	05	221,128	64,000	185,000	64,000		
	06	226,997	64,000	- - -	- - -		
	07	233,218	64,000	64,000	- - -		

COMPETING RESEARCH AND PUBLICATION GRANTS  
 SUMMARY OF COUNCIL RECOMMENDATIONS BY POTENTIAL FISCAL YEAR OF SUPPORT AND TYPE OF APPLICATION  
 TOTAL OF ALL PROGRAMS

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE		COUNCIL DATE: MARCH 1969									
FY & TYPE OF REQUEST	TOTAL REQUESTED		COUNCIL APPROVED		REDUCED		COUNCIL DISAPPROVED		COUNCIL DEFERRED		
	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	
FY 1969											
NEW	20	566,255	9	230,916	0		10	310,609	1	24,730	
RENEWAL	0		0		0		0		0		
SUPPLEMENT	2	14,337	1	9,693	0		1	4,644	0		
TOTAL	22	580,592	10	240,609	0		11	315,253	1	24,730	
FY 1970											
NEW	3	56,195	2	32,198	0		1	23,997	0		
RENEWAL	1	26,856	1	26,856	0		0		0		
SUPPLEMENT	0		0		0		0		0		
TOTAL	4	83,051	3	59,054	0		1	23,997	0		
FY 1971											
NEW	0		0		0		0		0		
RENEWAL	0		0		0		0		0		
SUPPLEMENT	0		0		0		0		0		
TOTAL	0		0		0		0		0		
FY 1972											
NEW	0		0		0		0		0		
RENEWAL	0		0		0		0		0		
SUPPLEMENT	0		0		0		0		0		
TOTAL	0		0		0		0		0		
GRAND TOTAL	26	663,643	13	299,663	0		12	339,250	1	24,730	



BOARD OF REGENTS  
NATIONAL LIBRARY OF MEDICINE

MINUTES OF EXECUTIVE SESSION  
March 25, 1969


- I. Dr. WOLF appointed a Nominating Committee consisting of Dr. BEAN, Chairman, Mr. AUGENSTEIN and Dr. MICHAEL. The Nominating Committee will bring in nominations for Chairman and Vice-Chairman for election of new officers by the Board at its June 19 and 20 meeting, 1969.
  
- II. Dr. CUMMINGS announced Mr. ADAMS' plans for early retirement. He reviewed his search for a replacement and asked for the Board's opinion on whether it believed a graduate degree in Library Science essential for the position. The Board believed the graduate degree of less consequence than the aptitudes and qualifications of individual candidate. Members of the Board were requested to submit suggestions individually.
  
- III. Toxicology Information Program. Dr. Charles RICE, Associate Director, Special Information Systems, reviewed critical points of the communication from the National Research Council Advisory Committee (Committee's Report of January, 1969, and Mr. Dunham's letter to Dr. Rice of February 12, 1969. He raised the following specific questions to the Board.
  1. The need, in accordance with NRC's comments, to look at programs of other Federal Executive Agencies.
  2. The need for in-house competence in the SIS programs.
  3. The problem of bringing resources for systems analyses to bear on the problem of accessing multiple toxicologic information stores.

In the Board's discussion, it was brought out:

1. That the initial PSAC Report gave no clear sense of priorities of need or attack.
2. That the program has no statutory base.
3. That priorities should be given, first, to ascertain the contents and file organization of other Federal files of toxicologic information (Patent Office, Navy, Agriculture) and secondarily, to the problem of design access to these files.
4. Funds were not the principal problem.
5. No other Federal agency was in a position to accept responsibility for the program.

As a resolution, the Board recommended giving priority to the more limited objective of exploring Federal resources and designing access to them and of enlisting assistance from the Lister Hill National Center for Biomedical Communications in systems analyses necessary to this latter function. During this discussion, Dr. CUMMINGS left to attend hearings of the House Appropriations Subcommittee with the Director, NIH.

- IV. MEDLARS II. Mr. ADAMS described briefly the slippage of the contractor's schedule, the personnel problems in OCES, and problems of interface with NLM operating programs. Dr. WOLF asked the R & D Subcommittee (Mr. AUGENSTEIN, Mr. ZIPF and Dr. ANLYAN) to review the MEDLARS II progress with the Library.
- V. Mr. ADAMS reported, for information, the possible reduction in Administration expenditures which would affect the scheduling of construction of the Lister Hill National Center for Biomedical Communications.
- VI. Mr. AUGENSTEIN, reviewing the contractor presentations of the Board's morning session, expressed a need to bring advice from the medical community to the Library through a new subcommittee of the Board which would counterbalance the R & D Subcommittee. He was concerned with the better provision of information to the Library and its contractors concerning the substance of medicine and the changing requirements of the medical community. He quoted Dr. EBERT to the effect that technology was moving so fast that there was a danger that systems to meet the requirements of the community might be frozen prematurely. Dr. WOLF named Captain Charles WAITE, MC, USN, and Drs. EBERT and SCHOOLMAN to this new Subcommittee, with Dr. Ebert as Chairman.



Martin M. Cummings, M. D.  
Executive Secretary, Board of Regents  
National Library of Medicine

Bethesda, Maryland  
April 9, 1969

AGENDA

Thirty-third Meeting of the  
BOARD OF REGENTS  
National Library of Medicine  
9:00 a.m., June 19-20, 1969  
Board Room

- I. CALL TO ORDER AND INTRODUCTORY REMARKS Dr. Stewart Wolf
- II. CONSIDERATION OF MINUTES OF LAST MEETING TAB I  
(orange book)
- III. DATES OF FUTURE MEETINGS  
1969-70 Calendars in all books TAB II  
Next Meeting - November 20-21, 1969  
Subsequent Meeting:  
March 19-20 (Thursday-Friday)  
March 23-24 (Monday-Tuesday)  
March 26-27 (Thursday-Friday)--This date was selected at the March, 1969  
meeting; however, it falls on Good Friday  
Selection of Meeting Date - June 1970  
Date circled is one preferred  
15-16, (18-19), 22-23 (AMA meets 6/21-25)  
M-T. Th.-F. M-T
- IV. REMARKS BY THE DIRECTOR, NIH Dr. Robert Marston
- V. REPORT OF THE DIRECTOR TAB III Dr. Martin Cummings
- VI. REPORT OF THE RESEARCH AND DEVELOPMENT TAB IV Mr. Bruno Augenstein  
SUBCOMMITTEE REVIEW OF MEDLARS II Mr. Alfred Zipf
- VII. SELECTED LITERATURE SEARCHES TAB V Dr. G. Burroughs Mider
- Photograph of Board of Regents on Front  
Steps of National Library of Medicine
- LUNCH
- EXTRAMURAL PROGRAMS
- VIII. REPORT OF THE ASSOCIATE DIRECTOR TAB VI Mr. David Kefauver
- IX. EXAMINATION OF THE SPECIAL TAB VII Dr. Jeanne Brand  
FOREIGN CURRENCY ACTIVITIES



X. CONSIDERATION OF PENDING APPLICATIONS

Mr. David Kefauver

DRG Administrative Report

TAB I  
(gray book)

A. CONSTRUCTION GRANTS

TAB II

B. REGIONAL GRANTS

TAB III

C. RESOURCE GRANTS

TAB IV

D. RESEARCH AND PUBLICATION GRANTS

TAB V

E. TRAINING GRANTS

TAB VI

ADJOURNMENT

DINNER (DUTCH TREAT) - COMMISSIONED OFFICERS CLUB, NATIONAL NAVAL MEDICAL CENTER

Cocktails 6:30 p.m.

Dinner 7:30 p.m.

REGENT SPEAKER - MR. BRUNO AUGENSTEIN - Subject: "Rand's Experiences in Working on Urban Problems for New York City"

RECONVENE - 9:00 a.m. - June 20, 1969

XI. REVIEW OF THE DISTRIBUTION OF AUDIOVISUAL MATERIALS

TAB VIII

Dr. James Lieberman

XII. USER CHARGES - Current Status of Government Position

TAB IX

Mr. Scott Adams

XIII. EXECUTIVE SESSION

XIV. OTHER BUSINESS

ADJOURNMENT

THE BOARD OF REGENTS  
of the  
NATIONAL LIBRARY OF MEDICINE  
MINUTES OF THE 33RD MEETING

June 19-20, 1969 - Bethesda, Maryland

MEMBERS PRESENT: Dr. William G. Anlyan, Mr. Bruno Augenstein, Dr. William B. Bean, Dr. Harve J. Carlson, Dr. Max Michael, Jr., Dr. Kathryn M. Smith, Dr. William H. Stewart, Dr. George W. Tauscher, Dr. Stewart G. Wolf, Mr. Alfred Zipf

MEMBERS ABSENT: Vice Admiral George M. Davis, USN, M.C., Dr. Robert H. Ebert, Dr. H. Martin Engle, Lt. General L. D. Heaton, USA, M.C., Dr. L. Quincy Mumford, Lt. General Kenneth E. Pletcher, USAF, M.C., Dr. Frederick H. Wagman

ALTERNATES: Dr. Burton W. Adkinson represented Dr. Harve J. Carlson, National Science Foundation, first day only.

Colonel William G. Dunnington, USA, represented Lt. General L. D. Heaton, USA, both days.

Colonel Gerrit Hekhuis, USAF, represented Lt. General Kenneth E. Pletcher, USAF, both days.

Dr. Harold Schoolman represented Dr. H. Martin Engle, Veterans Administration both days.

Captain Charles L. Waite, USN, represented Vice Admiral George M. Davis, USN, both days.

GUESTS: Dr. Robert Marston, Director, National Institutes of Health

Dr. Joseph F. Caponio, Scientific and Technical Communications Officer, National Institute of Neurological Disease and Stroke (attending for Dr. Thomas J. Kennedy, OD, NIH)

Miss Cecilia Conrath, Acting Chief, Continuing Education and Training Branch, Regional Medical Programs, Health Services and Mental Health Administration, PHS

Mrs. Ileen Stewart, Executive Secretary, History of Life Sciences Study Section and Biomedical Communications Study Section, DRG, NIH

Dr. William G. Cooper, Director of Educational Resources, University of Colorado (Consultant to the Lister Hill Biomedical Communications Center)

Dr. Fred Cole, President, Council of Library Resources, Inc., Washington, D. C.

Mr. John Sherrard, Director, National Agricultural Library, Washington, D.C.

STAFF:

Dr. Martin Cummings, Mr. Scott Adams, Mr. Jerrold Alexander,  
Mr. Alfred Asch, Dr. Clifford Bachrach, Dr. John Blake,  
Dr. Jeanne Brand, Mr. Arthur Broering, Mr. Raymond Brown,  
Mr. Kenneth Carney, Dr. Ralph P. Christenson, Mr. Peter Clepper,  
Mr. Lawrence Coffin, Dr. Ruth Davis, Mr. Donald Dennis,  
Dr. Malcolm Ferguson, Mr. Herbert Fockler, Mr. Joseph Foley,  
Mrs. Louise Gamage, Miss Frances Hasemeier, Dr. Elmer W. Herron,  
Mr. James Hill, Mr. David Kefauver, Dr. Joseph Leiter,  
Dr. James Lieberman, Mr. Davis McCarn, Dr. G. Burroughs Mider,  
Miss Marilyn Miller, Mr. Peter Monk, Mrs. Rita Pusey,  
Mr. George Russell, Mrs. Ann Sabin, Dr. Norman Shumway,  
Mr. Ralph Simmons, Mr. Stanley Smith, Mr. Kenneth Styers,  
Mr. John Walden, Mr. Robert Walkington, Mr. Alfred Weissberg,

NEW STAFF MEMBERS INTRODUCED

Dr. Ralph P. Christenson, Chief of Customer Products and Services Branch, Lister Hill National Center for Biomedical Communications. Dr. Elmer W. Herron, Regional Medical Library Officer, Extramural Programs.

MARCH 1969 MINUTES APPROVED, FORTHCOMING MEETINGS SCHEDULED

The minutes of the March 24-25, 1969 meeting were approved. The dates of November 20-21, 1969 and March 26-27, 1970 were reaffirmed. The dates of June 18-19, 1970 were tentatively selected for the third meeting in FY 1970.

REMARKS BY SURGEON GENERAL, PHS

(Acting Assistant Secretary for Health and Scientific Affairs, DHEW)

There have been phenomenal changes in the health budget picture during Dr. Stewart's four years as Surgeon General--from a figure of 4 billion dollars to one this year of 12½ billion dollars. The new programs, Medicare and Medicaid, are now the dominant forces in DHEW and account for 78% of the budget. The cost of personal health services is an uncontrollable item and almost 2/3 of the money in the FY 69 budget for Medicare and Medicaid was consumed by inflation. The remainder went for increased utilization of these services. With regard to Medicare, 1/3 of the money goes for nursing home care and several states have been forced to move funds into this area and away from the attack on other important problems such as mental retardation.

DHEW is seeking a long-range plan for developing health resources as a means of managing and controlling its functions, and emphasis is on planning and restructure of health services. Medicare and Medicaid have potent political ramifications. Other matters of concern are such unanswered questions as: What is a healthy growth rate for the biomedical research establishment and how to develop a national policy on health problems relating to the environment.

REMARKS OF DIRECTOR, NIH

Dr. Marston discussed the activities of the recently appointed DHEW Health Task Force, with its several teams, that have been exploring plans for developing the nation's health resources and services. An attempt was made to go across organizational entities to look at problems broadly and to seek strategies for attacking them, rather than to engage in a 5-year budget exercise. The implications to NIH of a "mid-level ceiling" in planning and budgeting would be essentially a holding operation with little or no growth in programs or services. The greatest problem confronting NIH is the growing anti-research climate with the viewpoint of some that research is wasteful and not relevant to problems of the day.

The Board questioned Dr. Marston on the apparent failure of the Task Force to recognize the contributions communications technology might make to health objectives. Of concern were savings to be made possible through the sharing rather than the duplication of resources between institutions. National availability of standardized educational materials would enable all medical schools to share resources developed with Federal assistance for the education of physicians.

Dr. Marston suggested that the FY 1970 NLM budget-cut resulted from a lack of administrative distinction between NLM and libraries of different types supported by the Office of Education, and that a special case must be made for the NLM. He stated that the Lister Hill Center had developed a more clearly defined approach to biomedical communications and that this should benefit NLM budgetwise. He further suggested that the emphasis at NIH on the importance of projects had caused a credibility gap with Congress because most problems are not solved. Budget requests should be related to achieving certain results, such as increasing the number of physicians. Dr. Stewart commented that DHEW was not being asked to spend less money, but to prove that funds were being used in the most efficient way.

#### REPORT BY DIRECTOR, NLM

Dr. Cummings reported that a bill for extension of the Medical Library Assistance Act for three years, with amendments for improvement, had been reported favorably by the House Subcommittee on Public Health and Welfare. A variety of public witnesses--health professionals, other elements of the health community, library associations, and individuals--had come forward to express strong support for extension of the Act.

The NLM FY 1970 budget cut of 2½ million dollars was absorbed by the Lister Hill Center, the Toxicology Information Program, NMAC, and the Extramural Programs.

Five-year budget levels projected for NLM by the DHEW Health Task Force seem satisfactory although below original projections. The PPB approach to budgeting is suited to NLM's service-oriented program. A special document on NLM communications projects has been prepared for submission to the Task Force Chairman.

The report of the President's Advisory Commission on Libraries, created in 1966, has resulted in bills introduced in Congress, and hearings on these have been held by the House and Senate. A House-passed bill calls for the creation of a new National Commission on Libraries and Information Science authorized to engage in planning, carry out functions, contract for projects, and publish and disseminate reports. It would be an independent component in the office of the Secretary, DHEW, and the Secretary's influence on the work of the Commission would be limited. Its major emphasis would be on overall planning.

The Committee on Scientific and Technical Information (COSATI) has recommended to the Federal Council on Science and Technology that it recognize the national status of four agencies with operational specialized area information systems--the National Agricultural Library, National Aeronautical and Space Administration, Atomic Energy Commission and NLM, and that the National Science Foundation is a Federal spokesman to the private sector with particular emphasis on disciplinary, rather than mission-oriented information systems.

The National Libraries Task Force has developed standards for compatible machine-readable cataloging systems based on the Mark II format of the Library of Congress. It is expected that significant progress will be made toward establishment of a pilot national serials data bank, now that the Association of Research Libraries will manage this effort under a grant from the National Agricultural Library.

Mr. Scott Adams, Deputy Director, NLM reported that a bilateral agreement for a MEDLARS system with the Institut National de la Santé et Recherche Médicale (INSERM) has been implemented in Paris. Applications for MEDLARS agreements have been received from the Bundesministerium for Health in West Germany and from a Consortium between Belgium and the Netherlands.

An NLM sponsored MEDLARS operating group meeting was held in Amsterdam May 9, with the purpose of attempting to work out a commonality of management policy between the international participants in MEDLARS--Sweden, Great Britain, France, and others intending to submit applications.

The Joint Feasibility Study of Information systems by the International Council of Scientific Unions (ICSU) and UNESCO is proving to be a long-range action program with three major components: (1) improvement of the interfaces and technical compatibility among large information systems, (2) standardization that will permit national information centers in countries lacking resources to exploit existing data bases in other countries, (3) exploitation of existing methodology for placing the products of these systems at the disposal of the scientific communities.

Mr. Adams reported briefly on the development of the Excerpta Medica Automated Storage and Retrieval Program of Biomedical Information centered in Amsterdam. A meeting has been held with Excerpta Medica technical personnel and agreement reached on an effort to develop some common standards between MEDLARS and this new system. NLM is not primarily interested in avoiding competition with MEDLARS and achieving economy, but in improving both systems so that better services are rendered.

Mr. George Russell, Executive Officer, NLM reported that with the current 7 for 10 personnel replacement ratio, the NLM loss rate had been 2% as compared to 4% throughout NIH. The Library had identified 48 positions that might have to be eliminated or not filled in order to bring the NLM staff down to 455 positions by the end of FY 1970. Reduction in manpower will be by attrition rather than through reduction-in-force.

Dr. Burton W. Adkinson, National Science Foundation, reported on House hearings held on the Pucinski bill that would convert his National Science Foundation (NSF) office into a National Science Research Data Processing and Information Retrieval System. No further action has been taken on the bill in Congress, but it is an expression of the strong feeling through the country that the various large information handling and processing efforts--biomedical, space, military, atomic energy, etc.--must be integrated.

REPORT OF THE RESEARCH AND DEVELOPMENT SUBCOMMITTEE REVIEW OF MEDLARS II

In March 1969 NLM Management and the Research and Development Subcommittee of the Board of Regents (Mr. Augenstein and Mr. Zipf) were alerted to the serious slippage of the MEDLARS II contract (performance and schedule) by the contractor, Computer Sciences Corporation (CSC). The failure to meet contract requirements appeared to be aggravated by some communication gaps between NLM and CSC.

At a meeting called by the R&D Subcommittee, CSC and NLM presented status briefings and prospective plans. Answers provided by CSC to most of the questions raised regarding its progress appeared unsatisfactory or highly incomplete, including an explanation of why the costs have escalated by over 50%. In a subsequent meeting between the Director, NLM and higher level CSC management, the Corporation officials appreciated more fully the magnitude of the problems, and assigned new administration and technical leadership to the project. It was decided to develop a new and tighter CSC contract, which was more explicit on the roles and interactions of NLM and CSC. This contract accepted newer cost estimates as being commensurate with the more detailed description of the required work. It also contains penalty clauses for overruns.

The R&D Subcommittee of the Board discussed the new arrangement during a meeting on June 18, 1969 following a detailed briefing by the new MEDLARS II management of NLM (Mr. Simmons). CSC management was invited to discuss a few residual concerns expressed by the Subcommittee. The Subcommittee then decided that the proposed arrangement (new contract, new management on part of both NLM and CSC, and more explicit work statement) was a most significant improvement, and recommended that NLM formally sign the contract.

REPORT ON SELECTED LITERATURE SEARCHES

Dr. G. Burroughs Mider, Office of the Director, NLM reviewed the development of the MEDLARS Selected Literature Search activity since its initiation in August 1965. A total of 120 searches have been produced, 87 are currently available, and over 45,000 copies of the searches have been distributed up through FY 1968. There were 137 requests from foreign countries. Some searches are extremely popular, while for others there is little demand. One-half of the requests came from libraries and the rest from varied groups and individuals. About 40 percent of the requests are from medical school environments, 25 percent from Governmental medical activities, 16 percent from other hospitals, 10 percent from practitioners, and the remaining 8 percent from various medically related associations and groups. Requests from the dental area amounted to less than 1 percent.

The availability of searches is announced in several medical journals, library journals, in Index Medicus, and elsewhere. Additional distribution has been given individual searches where libraries reproduce them for local use.

Dr. Cummings commented that while the cost of producing a Selected Literature Search by computer is estimated at \$60.00, the printing of large numbers of copies of a search drives the unit cost down to about 10 cents. He looks upon the production of searches as being an important contribution to continuing medical education.

#### REVIEW OF THE DISTRIBUTION OF AUDIOVISUAL MATERIALS

Dr. James Lieberman, Director, NMAC, outlined the development of the audiovisual distribution program in Atlanta from a level of 2,404 loans in FY 1948 to 100,000 in FY 1969. During the past decade the average yearly increase in distribution has been 23 percent. FY 1969 budget and manpower constraints have necessitated development of a policy in recent months whereby distribution is made only to health-related groups.

Dr. Lieberman placed emphasis on the great need for biomedical teaching and informational materials, and as he sees it, the responsibility resting upon NMAC to develop a national distribution program to meet this need. This might involve alternatives such as subcontracting for distribution services, establishment of regional library resource facilities, and other means. The recent initiation of a sales, audiovisual information and distribution point in the National Archives, General Services Administration offers a mechanism for relieving the pressure on NMAC's distribution services due to manpower shortages. However, Dr. Lieberman feels they are encroaching upon his program area. Effective July 1, 1969 GSA will contract to handle 40,000-50,000 loans for NMAC during FY 1970 at a cost of \$2.50 per shipment. Dr. Lieberman stated that, in the interest of economy and efficiency, he sought and finally obtained in June a DHEW policy directive designating NMAC as the centralized coordination agency for audiovisual distribution in the Department. All requests for NMAC film loans will be received by NMAC and those for non-health related audiences will generally be forwarded to GSA for processing.

Dr. Lieberman has serious reservations about the distribution arrangements with GSA and the effectiveness of the statement that encourages PHS agencies to use NMAC as the centralized distribution service in DHEW. He did not think GSA would perform well at first, he feared damage to the present NMAC distribution program in terms of good will and efficiency, and to the long-range status of his audiovisual distribution program. The fact that the GSA audiovisual facility has been named the National Audiovisual Center will create confusion.

Board discussion of Dr. Lieberman's presentation was held in Executive Session.

#### REPORT ON USER CHARGES - CURRENT STATUS OF GOVERNMENT POSITION

Mr. Scott Adams reviewed the issue of user charges as it relates to the Library since its establishment as the National Medical Library by the Hill-Kennedy Bill. He noted that in 1959 the Bureau of the Budget developed a general



policy for Executive agencies of Government regarding charges for services of special benefit to individual recipients, but Executive agencies make various interpretations of this policy. The Board of Regents has considered the matter of user charges three times since 1965, and on two occasions authorized the Director, NLM to employ charges only as a means of control on the volume of requests for services. The BOB has again become interested in imposition of user charges by agencies involved in scientific and technical information programs. The draft report of the COSATI Task Force working on a common policy regarding user charges leans toward imposition of these charges. NLM must, therefore, prepare for pressure to impose such charges; and its Program Planning and Evaluation Group (PPEG) is identifying services that might bear a charge, e.g., publications, interlibrary loans, search services, recurring bibliographies and specialized photographic services. The PPEG has developed the concept that imposition of user charges for routine services should be resisted and that if pushed into them, the Library should seek legislation authorizing a revolving fund with provisions for flexibility regarding manpower.

### EXTRAMURAL PROGRAMS 1/ 2/ 3/

#### REPORT OF THE EXTRAMURAL PROGRAMS

##### Council Operating Procedures

Reaffirmed by the Board at its June 1968 meeting. We will conform to reviewing these procedures beginning November 1969.

#### EXAMINATION OF THE SPECIAL FOREIGN CURRENCY ACTIVITIES

Dr. Jeanne L. Brand, Chief of the Publications and Translations Division, gave an illustrated review of the Special Foreign Currency Program, which is administered through the Extramural Programs. Dr. Brand discussed the origins of the Library's P.L. 480 activities ten years ago, which followed passage of an amendment to the Agricultural Trade Development and Assistance Act, authorizing U.S. Government agencies to collect, collate, translate, and disseminate scientific and technological information, as well as to conduct research and support activities overseas with special foreign currencies derived from Public Law 480.

- 
- 1/ Proceedings of meetings are restricted unless cleared by the Office of the Director, National Institutes of Health. The restriction relates to all material submitted for discussion at the meetings, the agenda for the meetings, the supplemental material, and all other official documents.
  - 2/ For the record, it is noted that members absent themselves from the meeting room when the Board has under individual discussion applications (a) from their respective institutions, (b) in which a conflict of interest might occur.
  - 3/ The Board of Regents, when considering the Extramural Programs of the NLM, also consists of the Board of Regents Advisory Council for Extramural Programs and National Medical Libraries Assistance Advisory Board and concurrently discharges the responsibilities of all three bodies.

Initially, the Library's P.L. 480 program was devoted to the translation of Russian and Eastern European biomedical literature, primarily carried out through overseas contractors of the National Science Foundation. Subsequently, a variety of abstracting and digesting programs were added.

Today, the Library's P.L. 480 programs, carried out in Poland, Yugoslavia and Israel, with other projects pending in Israel and India relates broadly to all the Library's activities, and represents a major component of the Library's over-all activities in support of international communication. It includes cover-to-cover journal translation and publication, translation of monographs, abstracting projects, preparation of scientific handbooks and directories, critical reviews, histories of medicine, publication of conference proceedings, one audiovisual demonstration project and an indexing program for MEDLARS.

The Board discussed evaluation procedures in the program and noted, in particular, the potential of the critical review program as a uniquely valuable medium of drawing upon expert foreign scientists in collaborative advancement of international communication.

#### REPORT OF THE ASSOCIATE DIRECTOR

The Associate Director for Extramural Programs addressed his comments to the Board of Regents on the following subjects:

##### Library Support by the Regional Medical Programs

Mr. Kefauver compared objectives of the Regional Medical Programs (RMP) and NLM as they relate to support of library services and their implementation. He advised the Board regarding program coordination, the exchange of information, participation in review functions, and technical advice and consultation on a national basis between the NLM Regional Medical Library Program (RMLP) and the RMP Information Activities. He also reported on RMP and RMLP planning with regard to coordination of library services, exchange of information and joint support of selected projects on a regional basis, e.g., in the Mid-Atlantic Region and the New England Region.

Mr. Kefauver further reported that the audiovisual support by the RMP in 38 regions had exceeded \$21 million and that of this amount, approximately \$4 million, or 19%, was earmarked for equipment. Efforts at cooperation between NLM and RMP are continuing.

##### "Year in Neutral" - Extramural Program Accomplishment and Budget Review

Mr. Kefauver reviewed the development of the Extramural Programs following passage of the Medical Library Assistance Act in October 1965, to show how the support authorized by this legislation will have been allocated during FY 1966-1970. The beneficial effects of these programs on the nation's medical libraries and their services were described.

The Medical Library Assistance Act authorized seven programs to remedy the three principle areas of need which have been defined: (1) facilities and resources, (2) manpower, and (3) tools and technology. In reviewing the

budget history, Mr. Kefauver noted that appropriations will be only about 44% of the authorized \$95 million during the five-year period. This limited funding has particularly slowed the development of the construction, regional medical library, and the resource grants programs.

During the five-year period, approximately 532 projects in all health areas totalling \$41.64 million will have been supported. This support includes 11 projects for the construction of new health science libraries, awards for approximately 20 training grants, the support of some 9 special scientific projects, 64 research grants, 392 medical library resource grants, 8 regional medical library programs, and 29 projects for biomedical scientific publications activities.

Mr. Kefauver reported that fiscal 1970 will be a year without further growth, with total funds available for these seven grant programs substantially below the funds available in fiscal 1969. He also noted that, during the years covered by the extension of the legislative authority now under consideration, a major planning and analysis activity across all programs and in all three areas of need should be instituted.

Mr. Kefauver then called attention to the latest legislative developments and recent changes in the administration of grants as outlined in the DRG Administrative Report. The Board was reminded of the confidentiality of the proceedings.

#### Extramural Programs Staff Change

Mr. Kefauver introduced to the Board Members Dr. Elmer W. Herron, Regional Medical Library Officer who was newly appointed to the Extramural Programs.

#### Review of Applications Needing Special Consideration by the Board of Regents Subcommittee for Extramural Programs

The Subcommittee met with the Extramural staff on June 18, 1969 to discuss certain research, training, medical library resource, regional medical library, and construction grant applications which required special consideration, such as those applications requesting more than \$50,000 per year, all split vote recommendations from initial review, applications for conference support and all foreign grant applications.

#### Consideration of Pending Applications

The Board of Regents, acting concurrently as the Board of Regents Advisory Council for Extramural Programs and as the National Medical Libraries Assistance Advisory Board, reviewed the following grant applications:

Construction Grants	Reviewed	4	\$7,071,795
	Approved	3	3,129,745
	Deferred	1	3,942,050

Regional Grants	Reviewed	1	\$ 195,857
	Approved	1	122,901
Resource Grants	Reviewed	40	
	Approved	38	
	Disapproved	1	
	Deferred	1	
Research and Publication Grants	Reviewed	25	888,597
	Approved	13	420,505
	Disapproved	11	409,992
	Deferred	1	31,600
Training Grants	Reviewed	10	740,433
	Approved	5	220,256
	Disapproved	3	97,364
	Deferred	2	325,879

Summaries of Board actions on all Extramural Grant Programs are appended to these minutes.

Respectfully submitted.



Martin M. Cummings, M.D.  
Executive Secretary to the Board of Regents  
National Library of Medicine

NATIONAL LIBRARY OF MEDICINE

RESUME OF CONSTRUCTION GRANT APPLICATIONS

Reviewed by Board of Regents

June 19-20, 1969

<u>APPLICATION NUMBER</u>	<u>INSTITUTION</u>	<u>RECOMMENDATION &amp; PRIORITY</u>
1 JO6 LM 00448-01	State University of Iowa Iowa City, Iowa	\$ 2,605,987 * (171)
1 JO6 LM 00483-01	Iowa State University of Science & Technology Ames, Iowa	314,214 * (204)
1 JO6 LM 00516-01	University of Illinois Library of Medical Sciences Chicago, Illinois	DEFERRAL
 <u>SPECIAL ACTION</u>		
1 JO6 LM 00348-01A1	Southern School of Pharmacy of Mercer University Atlanta, Georgia	209,554 * (195)

\*Recommended Maximum Amount

NATIONAL LIBRARY OF MEDICINE

RESUME OF REGIONAL MEDICAL LIBRARY GRANT APPLICATION

REVIEW BY BOARD OF REGENTS

June 19-20, 1969

<u>APPLICATION NO.</u>	<u>INSTITUTION</u>	<u>REQUESTED</u>	<u>IRG APPROVAL</u>	<u>APPROVAL</u>	<u>BOARD OF REGENTS PRIORITY</u>	<u>OTHER</u>
1 004 IM 00785-01	The University of Texas System Austin, Texas	\$ 195,857-01 195,150-02 204,000-03 201,325-04 207,650-05	\$122,901-01 149,000-02	\$122,901-01 149,000-02	243	

NATIONAL LIBRARY OF MEDICINE  
RESUME OF BOARD OF REGENTS RECOMMENDATIONS  
JUNE 19-20, 1969

Resource Grants

<u>APPLICATION NO.</u> <u>GO1 - LM -</u>	<u>INSTITUTION - ADDRESS</u>	<u>RECOMMENDATION OR ENTITLEMENT</u>	<u>PRIORITY</u>
00735-01	Bronx State Hospital Bronx, New York	\$ 7,482	336
00737-01	Pontiac Osteopathic Hospital Pontiac, Michigan	1,623	321
00738-01	Washington University School of Medicine St. Louis, Missouri	47,412	123
00740-01	New England Institute Ridgefield, Connecticut	6,355	404
00741-01	Maricopa County General Hospital Phoenix, Arizona	3,461	286
00742-01	Mercy Hospital School of Nursing Wilkes-Barre, Pennsylvania	1,646	373
00743-01	University of Wisconsin School of Pharmacy Madison, Wisconsin	10,097	209
00744-01	Missouri Institute of Psychiatry University of Missouri St. Louis, Missouri	9,658	209
00745-01	Hunter College of the City University of New York Nursing Library New York, New York	10,315	227
00746-01	Lutheran Hospital and Medical Center Wheat Ridge, Colorado	1,769	364
00747-01	Will Rogers Hospital Saranac Lake, New York	To Be Determined	236
00748-01	United Hospitals Medical Center Newark, New Jersey	2,371	335

Resource Grants

<u>APPLICATION NO.</u> <u>GO1 - IM</u>	<u>INSTITUTION - ADDRESS</u>	<u>RECOMMENDATION</u> <u>OR ENTITLEMENT</u>	<u>PRIORITY</u>
00750-01	Monroe Community College Rochester, New York	To Be Determined	258
00751-01	Provident Hospital Baltimore, Maryland	To Be Determined	254
00753-01	Children's Hospital of the District of Columbia Washington, D.C.	\$ 6,967	200
00754-01	Conemaugh Valley Memorial Hospital Johnstown, Pennsylvania	6,163	273
00756-01	South Baltimore General Hospital Baltimore, Maryland	2,289	309
00759-01	Saint John Hospital Detroit, Michigan	6,137	227
00771-01	Mendota State Hospital Madison, Wisconsin	1,409	300
00775-01	St. Joseph's Hospital Milwaukee, Wisconsin	2,985	264
00776-01	Hackley Hospital Muskegon, Michigan	2,830	305
00777-01	Amarillo Hospital District Northwest Texas Hospital Amarillo, Texas	4,550	255
00778-01	Columbus Hospital Great Falls, Montana	DISAPPROVAL	
00779-01	Marion County General Hospital Indianapolis, Indiana	13,330	236
00781-01	Purdue University School of Technology Department of Nursing Lafayette, Indiana	1,073	373
00782-01	St. Joseph Hospital Mt. Clemens, Michigan	2,170	320



Resource Grants

<u>APPLICATION NO.</u> <u>GO1 - LM</u>	<u>INSTITUTION - ADDRESS</u>	<u>RECOMMENDATION</u> <u>OR ENTITLEMENT</u>	<u>PRIORITY</u>
00783-01	Chestnut Hill Hospital Philadelphia, Pennsylvania	\$ 2,656	310
00784-01	Cornell University New York State Veterinary College Ithaca, New York	18,158	180
00786-01	Southern College of Optometry Memphis, Tennessee	8,189	255
00787-01	Orthopaedic Hospital Los Angeles, California	To Be Determined	300
00788-01	St. Joseph Hospital Houston, Texas	5,299	255
00789-01	Mercer Hospital Trenton, New Jersey	1,945	380
00790-01	University of Illinois at Urbana-Champaign College of Veterinary Medicine Urbana, Illinois	7,220	230
00791-01	Mercy Hospital Rockville Centre, New York	2,358	330
00792-01	St. Joseph's Infirmary Atlanta, Georgia	3,532	340
00793-01	University of Missouri School of Veterinary Medicine Columbia, Missouri	8,118	200
00794-01	Normandy Osteopathic Hospital St. Louis, Missouri	To Be Determined	350
00795-01	Santa Ana Community Hospital Santa Ana, California	5,262	330
00796-01	Colorado State College School of Nursing Greeley, Colorado	5,547	289
00797-01	Osteopathic Hospital Albuquerque, New Mexico	DEFERRAL	

NATIONAL LIBRARY OF MEDICINE

RESUME OF BOARD OF REGENTS RECOMMENDATIONS

June 19 - 20, 1969

RESEARCH & PUBLICATION GRANT APPLICATIONS - RESUME OF COUNCIL RECOMMENDATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
2 R01 LM 00036-03 Swanson, Don R. The University of Chicago Graduate Library School Chicago, Illinois "Experimental Dissemination of Biomedical Literature"	BCM	70	03	\$ 101,038	\$ 101,038	\$101,038	200	
			04	104,751	104,751	104,751		

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2 R01 LM 00074-03  
Straight, William M.  
University of Miami  
School of Medicine  
Coral Gables, Florida  
"History of Medicine in  
Florida"

HLS 70 03 5,671 5,671 5,671 290

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2 R01 LM 00098-04A1  
Rubenstein, Albert H.  
Northwestern University  
The Technological Institute  
Evanston, Illinois  
"The Development of Information  
Style by Researchers"

BCM 70 04A1 42,647 Disapproval 42,647 100  
05 50,054 50,054  
06 45,032 45,032  
07 44,084 44,084  
08 45,213 45,213

RESEARCH & PUBLICATION GRANT APPLICATIONS - RESUME OF COUNCIL RECOMMENDATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
2 R01 IM 00213-03 Schultz, Claire K. Institute for Advancement of Medical Communication Philadelphia, Pennsylvania "Cost-Effectiveness of Human and Computer Indexing Rules"	BCM	70	03	\$ 77,670	\$ 67,170	\$ 67,170	230	
2 R01 IM 00422-03 Rees, Alan M. Case Western Reserve University School of Library Science Cleveland, Ohio "Education for Hospital Library Personnel"	MT	70	03 04	32,730 14,600	32,730 14,600	32,730 14,600	157	
1 R01 IM ME 00572-01A1 Tishler, Haze S. Rutgers University The State University of New Jersey Graduate School of Social Work New Brunswick, New Jersey "Archival Resources for Research in Social Welfare History"	NSS	70	01A1 02 03 04 05 06 07	33,790 30,192 32,620 32,844 31,074 33,090 35,508	Disapproval			Dis.

RESEARCH & PUBLICATION GRANT APPLICATIONS - RESUME OF COUNCIL RECOMMENDATIONS

BOARD OF REGENTS  
Recommendation  
Approval   Priority   Other

<u>Application No., Investigator and Institution</u>	<u>Initial Review Group</u>	<u>FY</u>	<u>Year</u>	<u>Requested</u>	<u>IRG Recommendation</u>	<u>Approval</u>	<u>Priority</u>	<u>Other</u>
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2 R01 LM 00575-03A1 Ferris, Deam H. University of Illinois College of Veterinary Medicine Urbana, Illinois "Autotutorial Methods of Teaching Comparative Medicine"	BCM	70	03A1	\$ 29,631	Disapproval			Dis.
			04	27,900				
			05	26,100				

1 R01 LM 00719-01 (Publ) Hardy, Nancy F. University of Utah College of Medicine Salt Lake City, Utah "Vital Notes on Medical Periodicals"	BCM	70	01	24,730	\$ 24,730	\$ 24,730	310	
			02	26,670	26,760	26,760		

1 R01 LM 00757-01 Rather, Leland J. Stanford University School of Medicine Stanford, California "A History of the Biological Concept of Inflammation"	HLS	70	01	4,624	4,624	4,624	181	
			02	6,289	4,789	4,789		
			03	4,958	4,958	4,958		

1 R01 LM 00758-01 Veith, Ilza University of California School of Medicine San Francisco Medical Center San Francisco, California "Education for Morality"	HLS	70	01	12,502	Disapproval			Dis.
			02	11,407				
			03	13,328				

RESEARCH & PUBLICATION GRANT APPLICATIONS - RESUME OF COUNCIL RECOMMENDATIONS

BOARD OF REGENTS  
Recommendation  
Approval Priority Other

<u>Application No., Investigator and Institution</u>	<u>Initial Review Group</u>	<u>FY</u>	<u>Year</u>	<u>Requested</u>	<u>IRG Recommendation</u>	<u>Approval</u>	<u>Priority</u>	<u>Other</u>
1 R01 LM 00760-01 Hall, Thomas S. Washington University Graduate School of Arts & Sciences St. Louis, Missouri "Development and Decline of the Physiological Soul"	HLS	70	01 02	\$ 10,777 7,987	Disapproval			Dis.
1 R01 LM 00761-01 Blain, Daniel Pennsylvania Hospital Philadelphia, Pennsylvania "History of Psychiatry and Mental Health in U.S. - 1945-65"	HLS	70	01 02	34,165 32,915	Disapproval	\$ 34,165 32,915	100	
1 R01 LM 00762-01 Cushman, Paul, Jr. St. Luke's Hospital Center New York, New York "Influence of the Kissam Family on American Medicine"	HLS	70	01	2,499	Disapproval			Dis.
1 R01 LM 00763-01 Forbes, Thomas R. Yale University School of Medicine New Haven, Connecticut "History of Anatomy Films"	HLS	70	01 02	47,374 39,157	Disapproval			Dis.

RESEARCH & PUBLICATION GRANT APPLICATIONS - RESUME OF COUNCIL RECOMMENDATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 R01 LM 00764-01 Hand, Wayland D. University of California College of Letters & Science Los Angeles, California "Standard Work on American Folk Medicine"	HLS	70	01 02	\$ 9,960 11,033	\$ 9,960 11,033	230		
1 R01 LM 00765-01 Mountjoy, Paul T. Western Michigan University School of Liberal Arts & Sciences Kalamazoo, Michigan "The History of Animal Behavior Technology"	HLS	70	01 02	18,775 19,187	Disapproval			Dis.
1 R01 LM 00766-01 Berninghausen, David K. University of Minnesota College of Liberal Arts Minneapolis, Minnesota "Experimental Library Document Transmission System"	BCM	70	01 02 03	96,523 149,291 86,510	Disapproval			Dis.
1 R01 LM 00767-01 (Publ) Gressitt, J. Linsley Bernice P. Bishop Museum Honolulu, Hawaii "World Monographs and Studies of 'Pupipara' and 'Muscoldea'"	BCM	70	01 02 03	50,373 49,773 49,906	50,373 49,773 49,906	171	50,373 49,773 49,906	

RESEARCH & PUBLICATION GRANT APPLICATIONS - RESUME OF COUNCIL RECOMMENDATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 RO1 LM 00768-01 (Pub1) Stunkard, Horace W. American Society of Parasitologists Lawrence, Kansas "Publication of Proceedings, Second International Congress of Parasitology"	BCM	70	01	\$ 48,000	\$ 32,000	\$ 32,000	200	
1 RO1 LM 00769-01 (Pub1) Wald, Florence S. Yale University School of Nursing New Haven, Connecticut "Publication of 'Research Nursing Care'"	BCM	70	01	9,700	Disapproval			Dis.
1 RO1 LM 00770-01 Parker, Edwin B. Stanford University School of Humanities & Sciences Stanford, California "User Needs for On-Line Medical Information"	BCM	71	01	134,643	Disapproval			Dis.
			02	120,929				
			03	122,101				
			04	123,332				
			05	124,623				
			06	125,979				
1 RO1 LM 00772-01 (Pub1) Reilly, Mary University of Southern California Los Angeles, California "Occupational Behavior Monographed Series"	BCM	70	01	31,600	Deferral			Def.
			02	26,500				
			03	24,200				

RESEARCH & PUBLICATION GRANT APPLICATIONS - RESUME OF COUNCIL RECOMMENDATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 R13 LM PM 00773-01 Levine, Martin G. Association of Medical Illustrators River Forest, Illinois "Conference on Visual Communications in Medicine"	NSS	70	01	\$ 13,774	\$ 9,000 (300)			Dis.
1 R01 LM HS 00774-01 Shrand, Hyman Tufts University School of Medicine Boston, Massachusetts "Video Confrontation in a Home Medical Service"	NSS	70	01 02	11,177 5,000	11,177 5,000	\$ 11,177 5,000		240
1 R01 LM 00780-01 Beck, Ann F. University of Hartford College of Arts & Sciences West Hartford, Connecticut "German and British Medical Administration of Tanganyika"	HLS	70	01	4,220	4,220	4,220		172



DUAL LM-2ND INSTITUTE - RESUME OF COUNCIL RECOMMENDATIONS  
RESEARCH & PUBLICATION GRANT APPLICATION - RESUME OF COUNCIL RECOMMENDATIONS

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS	
						Approval	Priority Other
2 R13 DH 00129-06 Dual LM Scheaffer, C. Gibson The Ohio State University College of Social & Behavioral Sciences Columbus, Ohio "Dental Editors Seminar"	CDE	70	06	\$ 13,053	\$ 13,053	\$13,053	350
			07	14,357	14,357	14,357	
			08	15,792	15,792	15,792	
<hr/>							
1 R01 HD 04605-01 Dual LM Handler, Paul University of Illinois Urbana, Illinois "Population Dynamics - Computer- Assisted Instruction"	SSS	70	01	16,434	Disapproval		Dis.
<hr/>							
1 R01 HE 12926-01 Dual LM (Publ) Leavell, Jerome F. University of Arkansas Graduate School of Law Fayetteville, Arkansas "The Law and Ethics of Human Vital Organ Transplant"	SRC	70	01	28,550	Disapproval		Dis.
			02	19,690			

NATIONAL LIBRARY OF MEDICINE

RESUME OF BOARD OF REGENTS RECOMMENDATIONS

JUNE 19-20, 1969

TRAINING GRANTS

<u>Grant Number</u>	<u>Program Director &amp; Institution</u> <u>Year, Amt. Req. Stipend</u> (Direct Costs Only)	<u>Amt. Recomm.</u>	<u>Stipend</u>	<u>Committee Recommendation</u>	<u>Requested</u> <u>Begin. Date</u> <u>Priority</u>	<u>BRACEP</u> <u>Action</u>
2 TO1 LM 00101-04A1 MT	Shilling, Charles W. George Washington University Washington, D.C.	04A1 \$ 27,744	\$ 5,800	\$ 15,000	7/1/69 286	APPROVAL
2 TO1 LM 00103-11 HLS	Holmes, Frederic L. Yale University New Haven, Connecticut	11 75,720 12 79,620 13 87,863 14 93,274 15 95,405	22,800 22,600 25,200 28,000 28,000	56,970 58,180 63,033 - - - - - -	7/1/70 163	APPROVAL
2 TO1 LM 00105-11 HLS	Stevenson, Lloyd G. Johns Hopkins University Baltimore, Maryland	11 57,253 12 57,253 13 57,253 14 57,253 15 57,253	31,100 31,100 31,100 31,100 31,100	47,853 47,853 47,853 - - - - - -	7/1/70 120	APPROVAL

TRAINING GRANTS (cont'd)

<u>Grant Number</u>	<u>Program Director &amp; Institution</u> <u>Year, Amt. Req.</u> <u>Stipend</u>	<u>Committee Recommendation</u> <u>Amt. Recomm.</u> <u>Stipend</u>	<u>Requested</u> <u>Begin. Date</u> <u>Priority</u>	<u>BRACEP</u> <u>Action</u>
	(Direct Costs Only)			
1 T01 LM 00133-01 HLS	Hyman, Harold M. Rice University Houston, Texas			
	01 \$ 34,032 \$ 11,800	DISAPPROVAL	9/1/70	DISAPPROVAL
	02 46,631 17,600			
	03 61,230 23,400			
	04 61,480 23,400			
	05 61,730 23,400			
	06 40,648 11,600			
	07 26,549 5,800			
1 T01 LM 00134-01 MT	Brouse, Albert J. Illinois Institute of Technology Chicago, Illinois			
	01 117,336 29,000	DEFERRAL	9/1/69	DEFERRAL
	02 111,200 29,000			
	03 143,900 43,500			
	04 146,900 43,500			
1 T01 LM 00135-01 MT	Parker, Edwin B. Stanford University Stanford, California			
	01 116,040 18,200	\$ 60,000	7/1/69	APPROVAL
	02 117,339 29,000	105,000	113	
	03 140,738 40,400	140,738		
	04 143,506 40,400	143,506		
	05 146,415 40,400	146,415		
	06 149,469 40,400	- - - -		

TRAINING GRANTS (cont'd)

<u>Grant Number</u>	<u>Program Director &amp; Institution</u> <u>Year, Amt. Req. Stipend</u> <u>(Direct Costs Only)</u>	<u>Committee Recommendation</u> <u>Amt. Recomm. Stipend</u>	<u>Requested</u> <u>Begin. Date</u> <u>Priority</u>	<u>BRACEP</u> <u>Action</u>
1 T01 LM 00136-01 HLS	Hamrick, Joseph T. Tulane University New Orleans, Louisiana			
	01 \$ 45,250 \$ 5,800	DISAPPROVAL	7/1/69	DISAPPROVAL
	02 54,050 12,500			
	03 62,880 19,600			
	04 70,330 23,000			
	05 77,540 26,100			
	06 83,470 29,900			
	07 85,080 29,900			
1 T01 LM 00137-01 MT	Rubenstein, Albert H. Northwestern University Evanston, Illinois			
	01 40,433 9,200	\$ 40,433	7/1/69	APPROVAL
	02 64,760 20,000	64,760	100	
	03 92,360 30,900	92,360		
	04 114,680 41,400	114,680		
	05 114,760 41,600	114,760		
1 T01 LM 00138-01 MT	Larsh, John E., Jr. University of North Carolina Chapel Hill, North Carolina			
	01 18,082 - - -	DISAPPROVAL	7/1/69	DISAPPROVAL
	02 18,563 - - -			
	03 19,656 - - -			

TRAINING GRANTS (cont'd)

<u>Grant Number</u>	<u>Program Director &amp; Institution</u> <u>Year, Amt. Req.</u>	<u>Stipend</u>	<u>Amt. Recomm.</u>	<u>Stipend</u>	<u>Requested</u> <u>Begin. Date</u> <u>Priority</u>	<u>BRACEP</u> <u>Action</u>
1 101 LM 00139-01 MT	Swank, Raynard C. University of California Berkeley, California	(Direct Costs Only)				
	01 \$ 208,543	\$ 25,500				
	02 156,232	42,500				
	03 169,891	51,000				
	04 132,564	25,500				
	05 108,293	8,500				
			DEFERRAL		7/1/69	DEFERRAL

**COMPETING RESEARCH AND PUBLICATION GRANTS  
SUMMARY OF COUNCIL RECOMMENDATIONS BY POTENTIAL FISCAL YEAR OF SUPPORT AND TYPE OF APPLICATION  
TOTAL OF ALL PROGRAMS**

<u>FY &amp; TYPE OF REQUEST</u>		<u>TOTAL REQUESTED</u>		<u>TOTAL</u>		<u>COUNCIL APPROVED</u>		<u>REDUCED</u>		<u>COUNCIL DISAPPROVED</u>		<u>COUNCIL DEFERRED</u>	
		<u>NO.</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>AMOUNT</u>
INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE													
COUNCIL DATE: JUNE 1969													
FY 1969													
NEW	0			0		0		0		0		0	
RENEWAL	1	32,730		1	32,730	0		0		0		0	
SUPPLEMENT	0			0		0		0		0		0	
TOTAL	1	32,730		1	32,730	0		0		0		0	
FY 1970													
NEW	18	464,567		8	171,249	1	16,000	9	245,718	1	31,600		
RENEWAL	5	256,657		4	216,526	1	10,500	1	29,631	0			
SUPPLEMENT	0			0		0		0		0			
TOTAL	23	721,224		12	387,775	2	26,500	10	275,349	1	31,600		
FY 1971													
NEW	1	134,643		0		0		1	134,643	0			
RENEWAL	0			0		0		0		0			
SUPPLEMENT	0			0		0		0		0			
TOTAL	1	134,643		0		0		1	134,643	0			
FY 1972													
NEW	0			0		0		0		0			
RENEWAL	0			0		0		0		0			
SUPPLEMENT	0			0		0		0		0			
TOTAL	0			0		0		0		0			
GRAND TOTAL	25	888,597		13	420,505	2	26,500	11	409,992	1	31,600		

COMPETING TRAINING GRANTS  
 SUMMARY OF COUNCIL RECOMMENDATIONS BY POTENTIAL FISCAL YEAR OF SUPPORT AND TYPE OF APPLICATION

INSTITUTE/DIVISION: NATIONAL LIBRARY OF MEDICINE COUNCIL DATE: JUNE 1969

FY & TYPE OF REQUEST	NO.	TOTAL REQUESTED AMOUNT	NO.	TOTAL	COUNCIL APPROVED		REDUCED		COUNCIL DISAPPROVED		COUNCIL DEFERRED	
					AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.
FY 1969												
NEW	5	428,348	2	100,433	1	56,040	2	63,332	1	208,543		
RENEWAL	1	27,744	1	15,000	1	12,744	0		0			
SUPPLEMENT	0		0		0		0		0			
TOTAL	6	456,092	3	115,433	2	68,784	2	63,332	1	208,543		
FY 1970												
NEW	1	117,336	0		0		0		1	117,336		
RENEWAL	2	132,973	2	104,823	2	28,150	0		0			
SUPPLEMENT	0		0		0		0		0			
TOTAL	3	250,309	2	104,823	2	28,150	0		1	117,336		
FY 1971												
NEW	1	34,032	0		0		1	34,032	0			
RENEWAL	0		0		0		0		0			
SUPPLEMENT	0		0		0		0		0			
TOTAL	1	34,032	0		0		1	34,032	0			
FY 1972												
NEW	0		0		0		0		0			
RENEWAL	0		0		0		0		0			
SUPPLEMENT	0		0		0		0		0			
TOTAL	0		0		0		0		0			
GRAND TOTAL	10	740,433	5	220,256	4	96,934	3	97,364	2	325,879		

AGENDA

Thirty-fourth Meeting of the  
BOARD OF REGENTS  
National Library of Medicine  
9:00 a.m., November 20-21, 1969  
Board Room

- I. CALL TO ORDER AND INTRODUCTORY REMARKS Mr. Alfred Zipf
- II. CONSIDERATION OF MINUTES OF LAST MEETING TAB I Mr. Alfred Zipf  
(orange book)
- III. DATES OF FUTURE MEETINGS TAB II Mr. Alfred Zipf  
1970 Calendars in all books  
Next Meeting - March 26-27, 1970  
Subsequent Meeting:  
June 18-19, 1970  
Selection of Meeting Date - November 1970  
16-17 (M-T) 19-20 (T-F) 23-24 (M-T)
- IV. REMARKS BY THE ASSISTANT SECRETARY FOR Dr. Roger Egeberg  
HEALTH AND SCIENTIFIC AFFAIRS
- V. REMARKS BY THE DIRECTOR, NLM TAB III Dr. Martin Cummings
- VI. PRESENT STATUS OF LHCBC--PROJECTS AND Dr. Ruth Davis  
PLANS TAB IV
- LUNCH
- VII. REEXAMINATION OF LISTER HILL NATIONAL CENTER FOR BIOMEDICAL COMMUNICATIONS TAB V
- A. THE REASONS FOR AND THE ADVANTAGES Mr. Alfred Zipf  
OF HAVING A BIOMEDICAL COMMUNICATIONS  
NETWORK TO SUPPORT
- (1) Medical education at the undergraduate Dr. William Anlyan  
and graduate level
- (2) Postgraduate and continuing medical Dr. Max Michael  
education
- (3) Education for other professional  
personnel
- (a) The nursing profession Dr. Kathryn Smith
- (b) The dental profession Dr. George Teuscher



(4) Medical research

Capt. Charles Waite, USN

**B. FUNDING OF THE BIOMEDICAL COMMUNICATIONS NETWORK**

(1) Government resources

Dr. Harold Schoolman, VA  
Col. Gerrit Hekhuis, USAF  
Col. William Dunnington, USA

(2) Private medical and health related professional societies

Dr. C. H. William Ruhe, AMA

(3) Private, technical and industrial sources

Mr. Bruno Augenstein  
Dr. Douglas Knight, RCA

**C. NEED FOR COORDINATION OF DHEW FUNDED BIOMEDICAL COMMUNICATIONS PROJECTS**

(1) Inventories and Analysis -- Medical Communications Projects in DHEW

Dr. Ruth Davis

(2) Possibility of savings by replacing the construction of traditional medical libraries with new types of information resources based on communications technology.

Dr. Frederick Wagman

**D. CONCLUDING SUMMARY AND COMMENT**

Dr. Robert Ebert

**ADJOURNMENT**

**DINNER (DUTCH TREAT) - COMMISSIONED OFFICERS CLUB, NATIONAL NAVAL MEDICAL CENTER**

Cocktails 6:30 p.m.

Dinner 7:30 p.m.

**REGENT SPEAKER - DR. MAX MICHAEL, Jr. - Subject: "The Ivory Tower Crumbles"**

**RECONVENE - 9:00 a.m. - November 21, 1969**

**VIII. REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS**

Mr. David Kefauver

TAB I  
(gray book)

- a. Review of Council Procedures  
"Guidelines for Negotiated Adjustments by Staff in Time or Amount of Grant Award"
- b. DRG Administrative Report
- c. Legislative Developments

- IX. CONSIDERATION OF PENDING APPLICATIONS** **Mr. David Kefauver**
- A. REGIONAL GRANT** **TAB II**
- B. RESOURCE GRANTS** **TAB III**
- C. RESEARCH AND PUBLICATION GRANTS** **TAB IV**
- D. TRAINING GRANTS** **TAB V**
- 
- X. FIVE YEAR REVIEW OF MEDLARS OPERATIONS** **TAB VI** **Dr. Clifford Bachrach**  
**(orange book)**
- XI. PROGRESS REPORT ON MEDLARS II** **TAB VII** **Mr. Ralph Simmons**
- LUNCH - Conference Room 5, Building 31A-Executive Session will be held there.**
- XII. EXECUTIVE SESSION**
- 
- XIII. OTHER BUSINESS**
- ADJOURNMENT**

THE BOARD OF REGENTS  
of the  
NATIONAL LIBRARY OF MEDICINE

MINUTES OF THE 34TH MEETING

November 20-21, 1969 - Bethesda, Maryland

MEMBERS PRESENT: Dr. William G. Anlyan, Mr. Bruno W. Augenstein, Dr. William O. Baker,  
Dr. Robert H. Ebert, Dr. Jack M. Layton, Dr. Max Michael, Jr.,  
Dr. Kathryn M. Smith, Dr. George W. Teuscher, Dr. Frederick H. Wagman,  
Mr. Alfred R. Zipf

MEMBERS ABSENT: Dr. Harve J. Carlson, Vice Admiral George M. Davis, USN, M.C.,  
Dr. H. Martin Engle, Lt. General Hal B. Jennings, Jr., USA, M.C.,  
Dr. L. Quincy Mumford, Lt. General Kenneth E. Pletcher, USAF, M.C.,

ALTERNATES: Dr. Harold M. Schoolman represented Dr. H. Martin Engle, Veterans  
Administration both days.

Col. William G. Dunnington, USA, represented Lt. Gen. Hal B. Jennings, USA,  
both days.

Col. Gerrit L. Hekhuis, USAF, represented Lt. Gen. Kenneth E. Pletcher,  
USAF, both days.

Capt. C. L. Waite, M.C., USN, represented Vice Admiral George M. Davis,  
USN, both days.

Mr. Henry Dubester, Deputy Head, Office of Science Information Services,  
National Science Foundation, both days.

GUESTS: Dr. Roger O. Egeberg, Assistant Secretary for Health and Scientific  
Affairs, DHEW

Dr. C. H. William Ruhe, Director, Division of Medical Education, AMA

Dr. Douglas Knight, Vice President, Radio Corporation of America

Dr. Stewart Wolf, Regents Professor of Medicine and Psychiatry,  
Oklahoma Medical Research Foundation

Mr. John Sherrod, Director, National Agricultural Library

Dr. Leroy Langley, National Heart Institute, NIH

Mr. Donald Chill, Office of the Director, National Institutes of  
Health

Dr. William G. Cooper, University of Colorado (Consultant to the  
Lister Hill Biomedical Communications Center)

Dr. C. G. Gunn, University of Oklahoma (Consultant to the Lister  
Hill Biomedical Communications Center)

GUESTS: Mrs. Ileen Stewart, Executive Secretary, History of Life Sciences Study  
(cont'd.) Section and Biomedical Communications Study Section, DRG, NIH

Dr. James Dyson, Division of Regional Medical Programs, DRG, NIH

Mrs. Roberta Downes, Office of Management Policy and Review, OD, NIH

Mr. Jim McAllister, Office of Management Policy and Review, OD, NIH

STAFF: Dr. Martin Cummings, Dr. Clifford Bachrach, Dr. Jeanne Brand,  
Mr. Arthur Broering, Mr. Peter Clepper, Mr. Lawrence Coffin,  
Miss Mary Corning, Dr. Ruth Davis, Mr. Donald Dennis, Dr. Malcolm Ferguson,  
Mr. Joseph Foley, Mr. Herbert Fockler, Dr. Wayne Herron, Dr. Ann Kaufman,  
Mr. David Kefauver, Dr. Joseph Leiter, Dr. James Lieberman, Mr. Davis McCarn,  
Dr. G. Burroughs Mider, Miss Marilyn Miller, Dr. Peter Olch, Dr. Charles Rice,  
Mr. George Russell, Mrs. Ann Sabin, Mr. Richard See, Dr. Norman Shumway,  
Mr. Ralph Simmons, Mr. Ken Styers, Mr. M. Zane Thornton, Mr. John Waldren,  
Mr. Robert Walkington

NEW STAFF MEMBERS INTRODUCED

Dr. Leroy Langley of the National Heart Institute was introduced to the Board as the replacement for Mr. David F. Kefauver, Associate Director for Extramural Programs at the time he transfers to the Mental Health Institute.

JUNE 1969 MINUTES APPROVED, FORTHCOMING MEETINGS SCHEDULED

The minutes of the June 19-20, 1969 meeting were approved. The dates of March 26-27, 1970 and June 18-19, 1970 were reaffirmed. The dates of the November 19-20, 1970 were tentatively selected for the first meeting in FY 1971.

OPENING REMARKS OF THE CHAIRMAN OF THE BOARD AND INTRODUCTION OF THE ASSISTANT SECRETARY FOR HEALTH AND SCIENTIFIC AFFAIRS, DHEW

Mr. Zipf expressed great concern on behalf of the Board of Regents for the recent budget cuts which have affected service to foreign institutions and threaten to curtail some domestic services as well. The curtailment of the Biomedical Communications Network (BCN) development is looked upon as a long term detriment to the health care system of this country. The Board of Regents considers the implementation of BCN imperative to the improved productivity and distribution of health manpower; important for optimizing the investments of future private as well as public health programs; a means for improving diagnostic and treatment capabilities; a means for greater opportunities for more effective independent learning and greater productivity of faculty; and an aid in the relief of soaring educational costs.

REMARKS BY ASSISTANT SECRETARY FOR HEALTH AND SCIENTIFIC AFFAIRS, DHEW

Dr. Egeberg assured the group of his full support and concern for the importance of libraries as focal points for information. He is well aware of the financial stringency to which the Library has been subjected. He presented his overview of the present health scene and rated the distribution of health care as the most urgent problem. He stressed the importance of population control, the need for environmental control, and listed alcoholism as a major disease to be attacked along with the drug abuse problem. For improvements in all of these areas, better biomedical communications and better biomedical libraries are obviously important.

He felt that the absence of a physician from his post in the Administration for some six months was an important factor in the poor support of the biomedical community in the 1970 budget. He indicated that some 300 million dollars is needed immediately to be roughly divided between health manpower, research support, and to develop some muscle in selected new and ongoing programs. Without this, he stated, it may take ten years to catch up to our present position; the NLM might expect to share in any increases which he succeeded in acquiring.

REPORT BY DIRECTOR, NLM

Dr. Cummings presented the first National Library of Medicine Director's Honor Award to Mr. Ralph Simmons, the manager of the NLM MEDLARS II contract in recognition of his superior handling of an extremely difficult contractual arrangement pertaining to the development of MEDLARS II.

Following reference to the 1969 NLM Annual Report and the new NLM publication, Abridged Index Medicus, the Director discussed the current status of the extension of the Medical Library Assistance Act of 1965. The Administration's position was a one-year extension of the Medical Library Assistance Act with no modification. Different bills which would extend the Act for three years with certain technical and clarifying amendments have been passed by the Senate and the House. No conference has yet been called to reconcile the differences.

- (1) Budget Hearings - Budget Hearings in the House were held April 3, 1969 and reported out July 24, 1969 essentially supporting every element in the President's budget for NLM, some 19.6 million dollars.

Budget Hearings in the Senate were held November 7, 1969 and have not been reported as yet. Dr. Mider reported that the hearings were generally friendly towards NLM.

- (2) NLM Budget Information - The Office of Computer and Engineering Services, the Toxicology Information Service, and the National Medical Audiovisual Center have all been adversely affected by budget cuts in 1970. In recent years, there has been essentially no increase in the budgets of National Medical Audiovisual Center (NMAC), Lister Hill National Center for Biomedical Communications (LHNCBC), and the Toxicology Information Program and only a modest increase in the direct Library Operations budget. The major commitment is to complete MEDLARS II. Funds provided to date for the Medical Library Assistance Act have been less than half of the funds authorized by Congress. A review of Library services and personnel over a period of about 20 years, from 1951 to 1969 has shown a marked increase in services to the public with a decrease in personnel!
- (3) NMAC Fee-for-Service Issue - In August 1969, DHEW proposed that NMAC be closed in the interest of economy. This move was successfully appealed by NIH, but was followed by a directive from DHEW that NMAC be placed on a fee-for-service basis. Almost concurrently the Subcommittee of the Board of Regents on NMAC recommended a de-emphasis on production and an emphasis on acquisition, cataloging, and distribution of audiovisual materials. A backlog in film requests forced a reluctant turn to GSA for assistance in the distribution of films at the cost of \$50,000 per annum. This was an unfortunate move because GSA was unable to provide

timely service. The agreement has been terminated by the Director, NLM. Meanwhile, a plan for adoption of fee-for-service for audio-visual loans at NMAC was developed by the staff at NLM and NMAC for consideration by DHEW.

Extended discussion by the Board of the fee-for-service issue followed. The majority expressed grave concern on the institution of fee-for-service as the first impingement on the free library service concept. It was felt of sufficient importance to call for a statement of concern to be drafted by the Board for presentation to the Assistant Secretary for Health and Scientific Affairs, DHEW. It was also agreed that the substance of the Board's deliberations on this matter be available in some detail for the Assistant Secretary's examination, if requested. A transcript of this discussion was therefore prepared. The statement of concern or Resolution passed by the Board is appended to the Minutes as Attachment I.

- (4) COSATI Activities - A major activity has been the effort to implement the "Responsible Agent" concept, under which selected Federal Agencies assume responsibility for specialized National Systems of Information relevant to their missions. A recommendation to formally recognize the national status of four such systems (including bio-medicine) was submitted to the Federal Council for Science and Technology.

Dr. Cummings concluded his report with a discussion of the National Libraries Task Force activities, the renegotiation with the National Science Foundation for use of PL 480 funds, the PAHO Regional Library of Medicine, and his concern for the need of discontinuing interlibrary loan services, MEDLARS and other reference services, and film loans to foreign countries which are not covered by the Agency for International Development (AID) agreement.

PRESENT STATUS OF LISTER HILL NATIONAL CENTER FOR BIOMEDICAL COMMUNICATIONS -  
DR. RUTH DAVIS

Dr. Davis pointed out that the funds available to date for the three fiscal years involved are approximately 48 percent of those funds initially approved by DHEW. The LHCNBC staffing for FY '70 is 22 percent of that requested in the NLM five year plan. Progress is therefore about 35 percent of that anticipated by mid-FY '70.

In spite of the fact that the LHCNBC is supposed to be a focal point for biomedical communications in DHEW, there are some 29 different health organizations in DHEW spending some 74.9 million dollars on 711 different identifiable biomedical communications projects compared to 1.6 million dollars spent by the LHCNBC in FY '68-'69. These are not coordinated at any level.

Extensive planning activities of the LHCNBC, including a Technical Development Plan for the BCN, and a Fiscal Planning Document for Selected Information Services have been prepared and lie fallow for lack of funding and personnel.

The forced posture of the LHCBC in FY '70 has been to protect its investment in ongoing cooperative efforts with the biomedical community and the other limited activities it has been able to get under way with its restricted staff and funding. Some 85 groups outside of DHEW have approached the LHCBC for technical assistance and cooperative efforts. These have been in the areas of systems technology, communications technology, content, and computer technology (in descending order of frequency).

The Lister Hill National Center for Biomedical Communications has devoted considerable effort to the collection, analysis and interpretation of cost data for selected biomedical communications services. Careful analysis and study reveals substantial duplication of effort around the country at a great cost to individual institutions with a low yield of high quality audiovisual products.

#### REEXAMINATION OF LISTER HILL NATIONAL CENTER FOR BIOMEDICAL COMMUNICATIONS

This full afternoon session featured individual members of the Board addressing themselves to three basic problems. First, the reasons for and advantages of having a biomedical communications network to support professional education at undergraduate, graduate, and continuing education levels; second, the funding of the BCN through Government and private sources, and third, the need for coordination of DHEW funding of biomedical communications projects.

This series of presentations was summarized by Dr. Robert Ebert. He pointed out that the growing need for physicians and the newer members of the health team, such as physician assistants, etc. demanded quality education at a time when there is a severe shortage of teaching personnel. This coupled with the unevenness of teaching quality within varying programs indeed increases the need for some packaged high quality teaching programs for use of institutions throughout the country. The varying quality and high costs of individual university audiovisual programs supports the need for a centralized or unified effort to produce such packaged programs.

In the area of continuing education, it was stressed that the physician must consider the material relevant to his daily needs in the care of patients and should be involved in the planning of such materials. More continuing education courses are not the answer, but rather an opportunity for continuing education through daily problem-solving in working with his patients. One envisions the opportunity for the physician at the community hospital level to react individually and privately with a terminal in response to his daily patient care problems.

In the area of research, though investigators have their own intimate channels for keeping up-to-date in their own fields, a network could assist in an infusion and transfer of knowledge across research disciplines.

In consideration of funding for the BCN, it was agreed that this should be a partnership of private and public sectors. The immobility of funds within the Government was cited as a problem. Interesting figures were



presented that 8 percent of Government funding in biomedical communications is in industry and 75 percent in universities, though the abundance of communications talent in industry is obvious. The only way for better coordination in distribution of Government funds is for the decisions to be made at the Assistant Secretary level.

It was pointed out that private physicians are accustomed to paying for continuing education. The initiation of programs should come from medical schools and medical societies, etc., though there is some fear in some sectors of centralized program planning being tantamount to centralized control. The latter is not believed to be an insurmountable problem, however. It was suggested that the cost of continuing education for the physician may well approach several million dollars annually in the near future, but the growing concern for reexamination or relicensing of physicians will undoubtedly bring about a receptive user audience.

There is little question that the science and technology of industry can and will assist in the biomedical communications problem. It is important, however, that specific problems be isolated and identified for the application of industry's technology. It was agreed that software is the major problem rather than hardware.

The two major questions which arose from the afternoon's session were:

- (1) How to coordinate Government activities in biomedical communications?
- (2) How to utilize a biomedical communications network in support of the educational process?

In response to the first question, there was agreement that the Lister Hill National Center for Biomedical Communications in its present posture and location could do little to fulfill the needs. A letter expressing the concerns of the Board was drafted by the Board and reviewed during the Executive Session prior to being mailed to the Assistant Secretary from the Chairman of the Board at the close of the Regents' meeting. A copy was also sent to the Director, NIH. In response to the second question, Dr. Ebert presented his thoughts on a "university on loan" concept which briefly would call upon a number of universities providing faculty members "on loan" to the LHCBC for the development of core curriculum programs which could then be utilized by the network. He envisioned faculty being assigned to the LHCBC for a three to nine month period to permit them to devote their undivided attention to this matter. Such faculty members coupled with the technical staffs of NMAC and the LHCBC could develop a series of packaged programs to fill the needs and overcome the duplicity of effort mentioned above. In the long haul, the savings to individual universities would be most substantial. A similar arrangement could be made in the field of continuing education packages.

#### PROGRESS REPORT ON MEDLARS II - MR. RALPH SIMMONS

Mr. Simmons reviewed the history of the NLM contract with Computer Sciences Corporation (CSC). Because of slippage and poor performance, it was necessary to revise the original contract in June 1969 with stipulations designed

to encourage incentive and timeliness and penalties for the lack of same. There is now an agreed target cost of \$3,200,000 and the designation of two operational phases. The initial phase is to be operational by May 1970 and the extended phase by June 1971.

He reviewed the major areas of weakness in the contractor's performance to date and the steps the Library has taken to correct these. A number of major issues remain unsolved, particularly in the area of hardware selection, photocomposition (in house vs. GSA), vocabulary design, and final system design. The "modularity" of the search program is still not known and will, of course, affect the use by the MEDLARS search centers around the country and abroad.

By the current schedule, the contractor believes there has been a four week slippage; Mr. Simmons thinks an eight week slippage is more realistic. The overall quality of work and the personnel problems were discussed at length. It was agreed that CSC should be asked (specifically Mr. Nashman, Sr., Vice President) to present a major review of the project to the Board Subcommittee on Research and Development in January 1970. NLM would then document any deficiencies in writing. Mr. Nashman would then respond to this NLM communication to the MEDLARS II Subcommittee of the Board of Regents before the scheduled March meeting of the full Board. A decision will be made if Mr. Nashman should then address the full Board, or whether the Subcommittee will report on their meeting with Mr. Nashman.

#### FIVE YEAR REVIEW OF MEDLARS OPERATIONS (1964-1969) - DR. CLIFFORD BACHRACH

In this period, the annual number of articles indexed has risen from 144,057 to 210,602. Initially, all articles were indexed at NLM, but an increasing number are now indexed at other U.S. and foreign centers.

NLM indexing staff now spends more time reviewing quality of outside indexing, training outside indexers, and in network management. All indexers now receive training in MEDLARS search formulation to give them better appreciation of uses to which their indexing is put. Overseas indexing is now approximately 15 percent of total. This is performed in the United Kingdom, Sweden, Japan, and Israel.

There has been a similar growth pattern and decentralization of MEDLARS demand search services. Searches released in FY 1965 numbered 621; in FY 1969, 15,495. Domestic MEDLARS centers are networked and are an interdependent group. There are now 12 centers operational, not counting NLM. Semiannual workshops and a monthly technical bulletin keep everyone up-to-date.

There are currently 17 Recurring Bibliographies and continued demands for new ones. Abridged Index Medicus is the newest NLM publication designed for the use of the individual physician and for the libraries of small hospitals and clinics.

Two international MEDLARS centers are operational - United Kingdom and Sweden. Two were activated in 1969, but are not yet operational - France and Australia.

Agreements are pending with Germany, WHO and Japan, and negotiations have been initiated with Canada. NLM is pleased with the performance of the ongoing international centers.

EXTRAMURAL PROGRAMS 1/ 2/ 3/

REPORT OF THE ASSOCIATE DIRECTOR FOR EXTRAMURAL PROGRAMS - MR. DAVID KEFAUVER

Council Operating Procedures

Mr. David F. Kefauver brought to the attention of the Board that Council Operating Procedures should be reviewed annually at the November meeting. After reviewing the Guidelines for Adjustments by Staff in Time or Amount of Grant Award, the Board unanimously reaffirmed these guidelines.

Review of Applications Needing Special  
Consideration by the Board of Regents Subcommittee  
for Extramural Programs

The Subcommittee met with the Extramural staff on November 19, 1969 to discuss certain research, training, medical library resource and regional medical library applications. The Subcommittee reviews those applications requesting more than \$50,000 per year, all split vote recommendations by initial review groups, applications for conference support, and all foreign grant applications.

Consideration of Pending Applications

The Board of Regents acting concurrently as the Board of Regents Advisory Council for Extramural Programs and as the National Medical Libraries Assistance Advisory Board, reviewed the following grant applications:

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- 1/ Proceedings of meetings are restricted unless cleared by the Office of the Director, National Institutes of Health. The restriction relates to all material submitted for discussion at the meetings, the agenda for the meetings, the supplemental material, and all other official documents.
  - 2/ For the record, it is noted that members absent themselves from the meeting room when the Board has under individual discussion applications (a) from their respective institutions, (b) in which a conflict of interest might occur.
  - 3/ The Board of Regents when considering the Extramural Programs of the NLM, also consists of the Board of Regents Advisory Council for Extramural Programs and National Medical Libraries Assistance Advisory Board and concurrently discharges the responsibilities of all three bodies.

Regional Medical	Reviewed	1	\$ 190,670
Library Grant	Approved	1	128,450
Resource Grants	Reviewed	32	
	Approved	31	
	Disapproved	1	
Research Grants	Reviewed	30	1,060,438
	Approved	8	102,447
	Deferred	4	194,755
	Disapproved	18	757,353
Training Grants	Reviewed	6	682,305
	Approved	4	300,150
	Disapproved	2	331,328

Mr. Kefauver called to the Board's attention the list of interim actions which were negotiated by the staff subsequent to the June 1969 Board meeting.

Summaries of Board actions on all Extramural Grant Programs are appended to these minutes.

#### ACTIONS TAKEN BY THE BOARD

1. The Board adopted a resolution (Attachment I) expressing concern for the institution of user charges at NMAC by direction of the Assistant Secretary for Health and Scientific Affairs.
2. The Board drafted a letter to the Assistant Secretary for Health and Scientific Affairs expressing concern for the present posture and status of the LHCBC relative to its mission. The letter was sent to the Assistant Secretary by the Chairman, Board of Regents at the close of the meeting, with a copy forwarded to Director, NIH.
3. The Board accepted the Progress Report on MEDLARS II of Mr. Ralph Simmons and requested a major review of the project be presented by CSC (Mr. Nashman, Sr. Vice President) to the Subcommittee on Research and Development in January 1970, following which a decision will be made if Mr. Nashman should then address the full Board at the March meeting.

Respectfully submitted,



Martin M. Cummings, M.D.  
Executive Secretary to the Board of Regents  
National Library of Medicine

RESOLUTION PASSED BY BOARD OF REGENTS

November 21, 1969

The Board of Regents takes note of the Assistant Secretary's directive (copy attached) that user charges be instituted by the National Medical Audiovisual Center in its distribution of audiovisual materials.

The Regents wish to go on record that this administrative action should not be interpreted as indicating any change in the Regents' firm position that widest possible dissemination of biomedical information should not be constrained by user charges or other procedures or controls. Further, the Regents take occasion to resassert their support of the free library services concept.

Should the Assistant Secretary or his staff wish to consider the deliberations of the Regents, the full minutes of the discussion are readily available.

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UNITED STATES GOVERNMENT

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE  
Office of The Secretary

Memorandum

TO : Robert Q. Marston, M.D.  
Director, National Institutes of Health

FROM : Roger O. Egeberg, M.D.  
Assistant Secretary for Health and Scientific Affairs

SUBJECT: Fiscal 1971 Budget Allowance for NIH

Date Oct 20 1969

Your September 19 memorandum to the Secretary recommended certain modifications in the 1971 budget allowance for NIH which had been communicated to you several days earlier. Due to the time pressures imposed in submitting our 1971 budget request to the Bureau of the Budget, the decisions on each of your appeal items have already been communicated at the staff level. Therefore, rather than repeating the determinations on dollar amounts, I would like to confine my remarks to two policy areas--adoption of a fee-for-service arrangement for the National Medical Audiovisual Center and substitution of loan guarantees or direct loans for grant-in-aid assistance in the construction of university teaching hospitals.

With respect to the National Library of Medicine's audiovisual facility, previous reductions in direct appropriations for both 1970 and 1971 have been eliminated, as you proposed. This should not, however, be construed as a reversal of the intention to develop a workable plan which, to the maximum possible extent, will convert financial support for the National Medical Audiovisual Center from a direct appropriation to a fee-for-service basis. We do not believe that such a transformation is inconsistent with the Secretary's commitment to members of the Georgia congressional delegation that the audiovisual facility will be strengthened to become a more effective instrument for producing badly needed physician and ancillary health manpower.

Obviously, a number of problems need to be resolved before this transition in the source of support can be fully effective. The concurrent shift in emphasis within the Audiovisual Center from production to distribution activities must be defined with some precision. We need to focus on the issue of transferring authority from the General Services Administration to the Center to sell prints of films and audiovisuals, with concomitant authority to deposit the resultant receipts to the credit of the National Library of Medicine appropriation. Finally, we need to explore the alternatives of seeking substantive legislation to achieve our objective, or attempting to utilize point-of-order appropriation language in the 1971 President's budget request.

To help resolve these and any other questions, I am asking that you prepare and forward to both my office and Mr. Kelly's office within the next three weeks a detailed, well thought out plan for revising the source of financial support for the National Medical Audiovisual Center. I recognize that a complete conversion from present financial arrangements will probably not be possible in fiscal 1971. This, however, should not deter us from making a significant start.

Turning to the second policy item, use of grant funds appropriated under the Health Professions Educational Assistance Act for the construction of teaching hospitals, the Secretary's September 10 allowance memorandum to you indicated that beginning in fiscal 1971, teaching hospitals should obtain Federal construction assistance through the provisions of the modified Hill-Burton program now pending approval before the Congress. You have urged that such a decision be deferred, principally because of concern that teaching hospitals will not be afforded an adequate priority under a guaranteed loan and interest subsidy (or direct loan) program and because difficulties of coordination of Federal programs may occur in meeting the total construction needs of medical schools.

While I am sympathetic to the potential problems you have foreseen, they indicate a necessity to move promptly to formulate acceptable solutions rather than a cause for abandoning the policy which the Secretary has enunciated. Until the Hill-Burton extension legislation is finally enacted by the Congress, the specific details are still subject to change. Nevertheless, I would urge that NIH immediately initiate a dialogue with appropriate parties in the Health Services and Mental Health Administration looking to the resolution of any problems of priority and program coordination before they occur. Certainly my office stands ready to assist in any way possible to see that the needs of teaching hospitals are adequately met through the mechanisms of the modified Hill-Burton program.

NATIONAL LIBRARY OF MEDICINE

RESUME OF REGIONAL MEDICAL LIBRARY GRANT APPLICATION

REVIEW BY BOARD OF REGENTS

NOVEMBER 20 - 21, 1969

<u>APPLICATION NO.</u>	<u>INSTITUTION</u>	<u>REQUESTED</u>	<u>IRG APPROVAL</u>	<u>APPROVAL</u>	<u>BOARD OF REGENTS PRIORITY</u>	<u>OTHER</u>
1 G04 LM 00862-01	University of Nebraska Omaha, Nebraska	\$190,670 188,690 199,200 209,643	\$128,450 129,945 - - - - - -	\$128,450 129,945 - - - - - -	167	



NATIONAL LIBRARY OF MEDICINE

RESUME OF BOARD OF REGENTS RECOMMENDATIONS

NOVEMBER 20-21, 1969

<u>RESOURCE GRANTS</u>	<u>APPLICATION NUMBER</u>	<u>INSTITUTION</u>	<u>COMMITTEE RECOMMENDATION &amp; PRIORITY</u>	<u>TENTATIVE ENTITLEMENT</u>	<u>BOARD RECOMMENDATION</u>
1 G01 LM	00801-01	Lewis-Clark Normal School Lewiston, Idaho	325	\$ 1,199	CONCURRENCE
1 G01 LM	00803-01	Framingham Union Hospital Framingham, Massachusetts	322	5,208	CONCURRENCE
1 G01 LM	00804-01	St. Francis General Hospital Pittsburgh, Pennsylvania	333	5,618	CONCURRENCE
1 G01 LM	00805-01	Ft. Sanders Presbyterian Hospital Knoxville, Tennessee	344	2,618	CONCURRENCE
1 G01 LM	00828-01	Athens Mental Health Center Athens, Ohio	344	1,486	CONCURRENCE
1 G01 LM	00829-01	Emma Pendleton Bradley Hospital Riverside, Rhode Island	377	4,631	CONCURRENCE
1 G01 LM	00830-01	Tennessee Psychiatric Hospital & Institute Memphis, Tennessee	367	1,272	CONCURRENCE
1 G01 LM	00831-01	Holy Name Hospital Teaneck, New Jersey	311	7,595	CONCURRENCE
1 G01 LM	00833-01	Winnebago State Hospital Winnebago, Wisconsin	328	2,282	CONCURRENCE
1 G01 LM	00834-01	Springfield Academy of Medicine Springfield, Massachusetts	322	2,103	CONCURRENCE

<u>APPLICATION NUMBER</u>	<u>INSTITUTION</u>	<u>COMMITTEE RECOMMENDATION &amp; PRIORITY</u>	<u>TENTATIVE ENTITLEMENT</u>	<u>BOARD RECOMMENDATION</u>
1 G01 LM 00836-01	Independence Sanitarium and Hospital Independence, Missouri	333	\$ 2,091	CONCURRENCE
1 G01 LM 00837-01	St. Elizabeth Hospital Covington, Kentucky	355	1,654	CONCURRENCE
1 G01 LM 00839-01	Massachusetts Institute of Technology Cambridge, Massachusetts	Refer to the Board	18,000	APPROVAL WITH A PRIORITY OF 200
1 G01 LM 00840-01	Cumberland Hospital Brooklyn-Cumberland Medical Center Brooklyn, New York	362	5,931	CONCURRENCE
1 G01 LM 00841-01	St. Vincent Charity Hospital Cleveland, Ohio	355	4,461	CONCURRENCE
1 G01 LM 00842-01	Johnson County Mental Health Center Overland Park, Kansas	Disapproval		CONCURRENCE
1 G01 LM 00843-01	Dixon State School Dixon, Illinois	350	5,200	CONCURRENCE
1 G01 LM 00844-01	Massachusetts College of Optometry Boston, Massachusetts	244	3,028	CONCURRENCE
1 G01 LM 00845-01	University of Southern California Suicide Prevention Center Los Angeles, California	300	3,300	CONCURRENCE
1 G01 LM 00846-01	Waukesha Memorial Hospital Waukesha, Wisconsin	333	3,409	CONCURRENCE
1 G01 LM 00847-01	John Umstead Hospital Butner, North Carolina	294	3,819	CONCURRENCE
1 G01 LM 00848-01	University of Georgia School of Veterinary Medicine Athens, Georgia	300	5,529	CONCURRENCE

<u>APPLICATION NUMBER</u>	<u>INSTITUTION</u>	<u>COMMITTEE RECOMMENDATION &amp; PRIORITY</u>	<u>TENTATIVE ENTITLEMENT</u>	<u>BOARD RECOMMENDATION</u>
1 G01 LM 00849-01	Southern Nevada Memorial Hospital Las Vegas, Nevada	294	\$10,905	CONCURRENCE
1 G01 LM 00850-01	St. Joseph's Hospital School of Nursing Reading, Pennsylvania	433	3,592	CONCURRENCE
1 G01 LM 00852-01	St. Joseph's School of Nursing of Alton Alton, Illinois	355	3,959	CONCURRENCE
1 G01 LM 00853-01	St. Francis Hospital Evanston, Illinois	389	3,399	CONCURRENCE
1 G01 LM 00854-01	St. Louis University Medical Center St. Louis, Missouri	144	24,902	CONCURRENCE
1 G01 LM 00855-01	Institute for Juvenile Research Chicago, Illinois	311	6,358	CONCURRENCE
1 G01 LM 00856-01	Elwyn Institute Elwyn, Pennsylvania	289	3,188	CONCURRENCE
1 G01 LM 00857-01	Earl K. Long Memorial Hospital Baton Rouge, Louisiana	344	2,500	CONCURRENCE
1 G01 LM 00859-01	Illinois Security Hospital Chester, Illinois	300	2,500	CONCURRENCE
1 G01 LM 00860-01	Essex County College Newark, New Jersey	312	4,090	CONCURRENCE
<u>SPECIAL ACTION</u>				
5 G01 LM 00385-03	University of California San Francisco Medical Center San Francisco, California	<u>BOARD RECOMMENDATION</u> APPROVAL		

NATIONAL LIBRARY OF MEDICINE

RESUME OF BOARD OF REGENTS RECOMMENDATIONS

NOVEMBER 20-21, 1969

RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

<u>Application No., Investigator and Institution</u>	<u>Initial Review Group</u>	<u>FY</u>	<u>Year</u>	<u>Requested</u>	<u>IRG Recommendation</u>	<u>BOARD OF REGENTS</u>		
						<u>Approval</u>	<u>Priority</u>	<u>Other</u>
1 R01 IM 00816-01 Yoels, Jennifer Individual New York, New York "The Functional Use of the Body"	AFY	70	01 02	\$ 43,900 39,500	Disapproval			Dis.
2 R01 IM 00499-03 (Pub1) Buchanan, Robert E. Iowa State University College of Sciences and Humanities Ames, Iowa "Evaluation of Names of Taxa for Bergey's Manual Ed. 8"	BM	70	03	22,000	22,000	\$ 22,000	100	
2 R01 IM 00087-05 (Pub1) Collins, Donald L. American Mosquito Control Association Selma, California "Publication of Bibliography of Medical Entomology"	BCM	70	05 06	2,200 2,200	\$ 2,200 2,200	2,200 2,200	137	

RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 RO1 LM 00772-01 (Pub1) Reilly, Mary University of Southern California Los Angeles, California "Occupational Behavior Monographed Series"	BCM	70	01 02 03	\$ 31,600 26,500 24,200	Disapproval			Dis.
1 RO1 LM 00798-01 (Pub1) Todd, Kenneth S., Jr. University of Illinois College of Veterinary Medicine Urbana, Illinois "Publication of Russian Book on Coccidian Life Cycles"	BCM	70	01	5,700	\$ 2,000	2,000	225	
9 RO1 LM AI 00799-10 (Pub1) Townes, Henry K. University of Michigan School of Natural Resources Ann Arbor, Michigan "Systematic Monographs of Ichneumon-Flies"	BCM	70	10	9,804	9,804	9,804	162	
1 RO1 LM 00807-01 (Pub1) Farnsworth, Norman R. University of Pittsburgh School of Pharmacy Pittsburgh, Pennsylvania "The Lynn Index"	BCM	70	01 02 03	26,048 27,261 29,053	Disapproval			Dis.

RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 RO1 LM 00808-01 (Pub1) Gottesfeld, Harry The Roosevelt Hospital Community Mental Health Services New York, New York "Annotated Bibliography of Community Mental Health"	BCM	70	01 02	\$ 33,360 36,860	Disapproval			Dis.
1 RO1 LM 00809-01 Hetzner, Bernice M. University of Nebraska Medical Center Lincoln, Nebraska "Medical Information Needs of Practicing Physicians"	BCM	70	01 02 03	6,199 6,524 6,970	Deferral			Def.
1 RO1 LM 00810-01 Paplanus, Samuel H. Johns Hopkins University School of Medicine Baltimore, Maryland "Synonym Dictionary for Diagnoses"	BCM	70	01 02 03	42,033 35,933 36,802	Disapproval			Dis.
1 RO1 LM 00819-01 Carmon, James L. University of Georgia Office of Research Athens, Georgia "Expand Biomedical Information Center"	BCM	70	01 02 03	91,078 85,000 87,000	Disapproval			Dis.

RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 RO1 LM 00820-01 DiGiulio, Hugo A. Stanford University School of Engineering Stanford, California "Computer Aided Decision-Making and Concept Manipulation"	BCM	70	01 02 03	\$ 80,730 99,062 58,976	Disapproval			Dis.
1 RO1 LM 00821-01 Newell, Frank W. University of Chicago Division of Biological Sciences Chicago, Illinois "Automated Information Retrieval from Medical Records"	BCM	70	01 02 03	28,208 72,000 98,000	Disapproval			Dis.
1 RO1 LM 00822-01A1 Thompson, David A. Stanford University School of Engineering Stanford, California "Data Classification Structures to Minimize Search Time"	BCM	70	01A1 02 03	87,803 118,270 125,500	Disapproval			Dis.
1 RO1 LM 00823-01 Tidball, Charles S. George Washington University Medical Center Washington, D.C. "Development of an Indexing Vocabulary for Physiology"	BCM	70	01 02 03	46,880 41,189 36,076	Disapproval			Dis.

RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 R01 LM 00824-01 (Publ) Weber, Alvin F. University of Minnesota College of Veterinary Medicine Minneapolis, Minnesota "Comparative Histological Nomenclature"	BCM	71	01	\$ 5,366	\$ 3,183	3,183	150	
			02	2,642	2,642	2,642		
			03	1,000	1,000	1,000		
1 R01 LM 00825-01 Wells, Arthur H. College of American Pathologists Chicago, Illinois "Is SNOP Feasible as a General SNOMED?"	BCM	70	01	86,500	Disapproval			Dis.
1 R01 LM 00832-01 (Publ) Kameny, Aaron Individual New York, New York "Working with the Brain Damaged: Rehabilitation (Manuscript)"	BCM	70	01	7,875	Disapproval			Dis.
1 R01 LM PM 00835-01 Bryan, Gordon H. University of Montana School of Pharmacy Missoula, Montana "Drug Comparison and Selection"	BCM	70	01	30,656	Disapproval			Dis.
			02	32,414				
			03	33,630				



RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
2 R01 LM 00494-08 Norwood, William F. Loma Linda University School of Medicine Loma Linda, California "History of Medical Education in the United States"	HLS	70	08	\$ 8,360	Disapproval			Dis.
1 R01 LM 00811-01 Coulter, Harris L. Individual Washington, D.C. "History of Nineteenth-Century Medicine"	HLS	70	01 02	14,000 14,000	Deferral			Def.
1 R01 LM 00812-01 Forbus, Wiley D. Duke University Medical Center Durham, North Carolina "History of Medical Science in North Carolina"	HLS	70	01 02 03	5,367 5,775 6,000	Disapproval			Dis.
1 R01 LM 00813-01 Ogden, Margaret S. University of Michigan College of Literature, Science and the Arts Ann Arbor, Michigan "Guy de Chauliac's Medical Vocabulary"	HLS	70	01 02	18,554 19,308	18,554 19,308		133	

RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	IRG Recommendation	BOARD OF REGENTS		
						Approval	Priority	Other
1 R01 LM 00814-01 Levey, Martin The Research Foundation of State University of New York College of Arts and Letters; Science Division Albany, New York "Medical Deontology, From the Past to the Future"	HLS	70	01 02 03	\$ 10,060 10,766 11,512	Disapproval			Dis.
1 R01 LM 00827-01 Harms, Ernest Individual New York, New York "A History of Child Psychiatry: 1800 to the Present"	HLS	70	01 02 03	17,000 17,000 17,000	Disapproval			Dis.
2 R01 LM 00528-03 Waring, Joseph I. Medical College of South Carolina School of Medicine Charleston, South Carolina "History of Medicine in South Carolina"	HLS (Ahr)	70	03	10,500	10,500	10,500	283	
1 R01 HS 00382-01 Voulgaropoulos, Emmanuel University of Hawaii Honolulu, Hawaii "Comparative Health Studies"	HSR	70	01 02 03 04 05	149,093 197,543 209,284 208,256 190,544	Deferral			Def.

RESEARCH & PUBLICATION GRANT APPLICATIONS - BY STUDY SECTION

Application No., Investigator and Institution	Initial Review Group	FY	Year	Requested	BOARD OF REGENTS			
					IRG Recommendation	Approval	Recommendation Priority	Other
1 R01 LM GM 00817-01 Meites, Louis Clarkson College of Technology School of Arts and Science Potsdam, New York "Data Center in Polarography"	MCHB	70	01 02	\$ 25,463 24,733	Deferral			Def.
1 R01 LM 00815-01 Hutchins, Nettie M. Mormouth Medical Center Long Branch, New Jersey "Evaluation Study of a Learning Resources Center"	NSS	70	01 02 03	79,895 48,250 59,805	Disapproval			Dis.
1 R01 LM HD 00826-01 Hirshfield, Daniel S. Age Center of New England, Inc. Boston, Massachusetts "Social History of the Elderly in 20th Century America"	NSS	70	01 02 03	34,206 39,610 32,835	34,206 39,610 32,835 (300)	34,206 39,610 32,835	200	

NATIONAL LIBRARY OF MEDICINE  
RESUME OF BOARD OF REGENTS RECOMMENDATIONS

NOVEMBER 20-21, 1969

TRAINING GRANTS

<u>Grant Number</u>	<u>Program Director &amp; Institution</u> <u>Year, Amt. Req.</u> <u>Stipend</u>	<u>Committee Recommendation</u> <u>Amt. Recomm.</u> <u>Stipend</u>	<u>Requested</u> <u>Begin. Date</u> <u>Priority</u>	<u>BOARD</u> <u>Action</u>
2 T01 LM 00120-04 MT	Pings, Vern M. Wayne State University Detroit, Michigan			
	04    \$54,867      \$25,000	\$54,867      \$25,000	7/1/70	APPROVAL
	05    55,865      25,000	55,865      25,000	283	
	06    57,294      25,000	57,294      25,000		
	07    58,808      25,000	- - -		
	08    60,415      25,000	- - -		
2 T01 LM 00125-04 MT	Unglaub, Walter G. Tulane University New Orleans, Louisiana			
	04    184,578      62,000			DISAPPROVAL
	05    188,467      62,000			
	06    193,550      62,000			
	07    197,837      62,000			
	08    202,339      62,000			
1 T01 LM 00134-01 MT	Brouse, Albert J. Illinois Institute of Technology Chicago, Illinois			
	01    112,972      29,000	112,972	7/1/70	APPROVAL
	02    108,700      29,000	108,700	208	
	03    141,400      43,500	141,400		
	04    143,900      43,500	143,900		

<u>Grant Number</u>	<u>Program Director &amp; Institution</u> <u>Year, Amt. Req.</u>	<u>Stipend</u>	<u>Committee Recommendation</u> <u>Amt. Recomm.</u>	<u>Stipend</u>	<u>Requested</u> <u>Begin. Date</u> <u>Priority</u>	<u>BOARD</u> <u>Action</u>
1 TO1 LM 00139-01 MT	Swank, Raynard C. University of California Berkeley, California					
	01 \$130,827	\$17,000	\$ 80,000		7/1/70	APPROVAL
	02 139,073	34,000	87,000		180	
	03 165,978	51,000	103,000			
	04 167,875	51,000	104,000			
	05 171,663	51,000	106,000			
1 TO1 LM 00140-01 MT	Sargent, Charles W. University of Missouri Columbia, Missouri					
	01 52,311	17,500	52,311	\$17,500	7/1/70	APPROVAL
	02 53,446	17,500	53,446	17,500	175	
	03 55,211	17,500	55,211	17,500		
	04 57,618	17,500	57,618	17,500		
	05 59,677	17,500	59,677	17,500		
1 TO1 LM 00141-01 MT	Harris, Ira W. University of Hawaii Honolulu, Hawaii					
	01 146,750	43,500			2/1/70	DISAPPROVAL
	02 141,211	43,500				
	03 137,262	43,500				
	04 140,007	43,500				
	05 142,973	43,500				
	06 146,058	43,500				
	07 149,266	43,500				

COMPETING RESEARCH AND PUBLICATION GRANTS  
SUMMARY OF COUNCIL RECOMMENDATIONS  
TRADITIONAL PROJECT GRANTS

COUNCIL DATE: NOVEMBER 1969

INSTITUTE OR DIVISION: NATIONAL LIBRARY OF MEDICINE

TYPE OF REQUEST	TOTAL REQUESTED		APPROVED		REDUCED		DISAPPROVED		DEFERRED	
	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT
<b>FY 1970</b>										
NEW	24	\$1,002,208	3	\$54,760	1	\$3,700	17	\$748,993	4	\$194,755
RENEWAL	5	52,864	4	44,504	0		1	8,360	0	
SUPPLEMENT	0		0		0		0		0	
TOTAL	29	1,055,072	7	99,264	1	3,700	18	757,353	4	194,755
<b>FY 1971</b>										
NEW	1	5,366	1	3,183	1	2,183	0		0	
RENEWAL	0		0		0		0		0	
SUPPLEMENT	0		0		0		0		0	
TOTAL	1	5,366	1	3,183	1	2,183	0		0	
<b>FY 1972</b>										
NEW	0		0		0		0		0	
RENEWAL	0		0		0		0		0	
SUPPLEMENT	0		0		0		0		0	
TOTAL	0		0		0		0		0	
<b>FY 1973</b>										
NEW	0		0		0		0		0	
RENEWAL	0		0		0		0		0	
SUPPLEMENT	0		0		0		0		0	
TOTAL	0		0		0		0		0	
<b>GRAND TOTAL</b>	<b>30</b>	<b>1,060,438</b>	<b>8</b>	<b>102,447</b>	<b>2</b>	<b>5,883</b>	<b>18</b>	<b>757,353</b>	<b>4</b>	<b>194,755</b>

SUMMARY OF COUNCIL RECOMMENDATIONS  
GRADUATE TRAINING GRANTS

COUNCIL DATE: NOVEMBER 1969

INSTITUTE OR DIVISION: NATIONAL LIBRARY OF MEDICINE

TYPE OF REQUEST	TOTAL REQUESTED		APPROVED		REDUCED		DISAPPROVED		DEFERRED	
	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT	NO.	AMOUNT
FY 1970										
NEW	4	\$442,860	3	\$245,283	1	\$50,827	1	\$146,750	0	0
RENEWAL	1	54,867	1	54,867	0		0		0	0
SUPPLEMENT	0		0		0		0		0	0
TOTAL	5	497,727	4	300,150	1	50,827	1	146,750	0	0
FY 1971										
NEW	0		0		0		0		0	0
RENEWAL	1	184,578	0		0		1	184,578	0	0
SUPPLEMENT	0		0		0		0		0	0
TOTAL	1	184,578	0		0		1	184,578	0	0
FY 1972										
NEW	0		0		0		0		0	0
RENEWAL	0		0		0		0		0	0
SUPPLEMENT	0		0		0		0		0	0
TOTAL	0		0		0		0		0	0
FY 1973										
NEW	0		0		0		0		0	0
RENEWAL	0		0		0		0		0	0
SUPPLEMENT	0		0		0		0		0	0
TOTAL	0		0		0		0		0	0
GRAND TOTAL	6	682,305	4	300,150	1	50,827	2	331,328	0	0

**BOARD OF REGENTS  
NATIONAL LIBRARY OF MEDICINE**

**MINUTES OF EXECUTIVE SESSION  
November 21, 1969**

The Executive Session of the Board of Regents meeting was called to order by the Chairman, Mr. A. R. Zipf, at 1 p.m., November 21, 1969.

The first order of business under consideration was Dr. Schoolman's draft of a Resolution regarding user charges for NMAC services. This draft, initially prepared by Dr. Schoolman and reviewed by Dr. William O. Baker, was further modified by the Board. The final Resolution to be forwarded to the Assistant Secretary for Health and Scientific Affairs is attached to the Minutes (Attachment I). It was agreed that an edited summary, or more specifically that portion of the Minutes of the Board of Regents meeting dealing with the pertinent discussion, would be available for the Assistant Secretary's examination on request.

The second order of business was a report of the NMAC Subcommittee of the Board. Mr. Augenstein reviewed the modifications in goals and guidelines for NMAC set up by the Subcommittee of the Board in September. In general there is to be a deemphasis on production of audiovisual products with an increased emphasis on cataloging of the collection and distribution of the audiovisual products. A modest and stable production capability is to be maintained for experimental and innovative productions. The Subcommittee felt that the initial response to the reorientation of NMAC prepared by the Director, Dr. Lieberman, was a good first step in this direction. The intended retirement of Dr. Lieberman in June 1970 was announced.

Mr. Dubester of the National Science Foundation raised the question of the deemphasis on production at NMAC on the "university on loan" concept discussed in the general meeting of the Board. He expressed concern that this would interfere with the LHNC-NMAC-visiting faculty joint participation in the development of A-V products for the BCN. Mr. Augenstein responded that production would be curtailed, not stopped altogether.

The Minutes of the NMAC Subcommittee were approved.

Chairman Zipf recommended that the NLM staff conduct a study of the possibility of transferring the R & D functions of NMAC to the LHNC, and the cataloging functions of NMAC to NLM. It was stressed that this was a functional move rather than a physical move for the present. The superb physical production facilities would of course remain in Atlanta for the present.



Following further discussion it was agreed that the components of the proposed study would be:

1. The possible transfer of the R & D production component of NMAC to the LHNC.
2. The possible transfer of the cataloging function of NMAC to NLM.
3. The functional component of NMAC to be transferred (R & D production) is to be considered a prototype of the LHNC-BCN function utilizing the "university on loan" concept.

It was pointed out that a step had already been made toward this functional transfer with the proposed move of Dr. Lieberman to NLM in April of 1970.

The Board approved the Chairman's recommendation of the aforementioned study. The Director, NLM, indicated that the preliminary findings from this study would be presented to the Board in March of 1970.

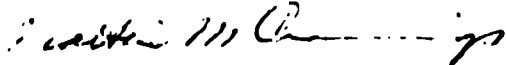
The next order of business was a recommendation by the Chairman that Doctors Michael, Schoolman, Waite, and Layton constitute a Subcommittee of the Board to approach the AMA for an endorsement of the principles and programs of the LHNC and to urge their active participation in the planning of the LHNC for the BCN. It was pointed out that the AMA might function in a cooperative planning role for the continued education of physicians in the same manner that the AAMC is now working with the LHNC on undergraduate and graduate program content.

Dr. Cummings pointed out that it would be difficult to set up more than these two cooperative ventures at this time because of the shortage of personnel in LHNC.

Dr. Cummings provided the latest information on the Williams and Wilkins copyright lawsuit. Although the suit against the NLM was to be dropped while continued against the NIH Library, the NLM plans to continue as an actively involved party in order to support the nation's libraries.

Arrangements were made for the next meeting of the Board to be held in San Francisco March 26-27. Suggested items to be included on the agenda include: review of regional medical libraries' program, contractor presentation on the status of MEDLARS II, and further discussions of the NMAC and Lister Hill National Center activities.

Respectfully Submitted,

  
 Martin M. Cummings, M.D.  
 Executive Secretary, Board of Regents  
 National Library of Medicine

Attachment (1)

Bethesda, Maryland  
 November 25, 1969



**DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE**  
**COPY**  
**PUBLIC HEALTH SERVICE**  
**NATIONAL INSTITUTES OF HEALTH**

**ATTACHMENT I**

**NATIONAL LIBRARY OF MEDICINE**  
**8600 ROCKVILLE PIKE**  
**BETHESDA, MD. 20014**

**REFER TO:**

**November 21, 1969**

**Dr. Roger O. Egeberg**  
**Assistant Secretary for Health**  
**and Scientific Affairs**  
**Department of Health, Education,**  
**and Welfare**  
**Washington, D.C. 20201**

**Dear Dr. Egeberg:**

The considered decision of the Congress and Office of the Secretary, HEW, in 1967 was that the Department needed a focal point for functions of coordination of biomedical communications and for improved means of resource sharing within the medical community. These Department needs are explicitly reflected by the language describing the functions of the Lister Hill National Center published in the Federal Register, Volume 34, No. 3, of January 4, 1969.

On November 20, the Board of Regents of the National Library of Medicine met virtually the full day in a special review of the progress and status of the Lister Hill National Center for Biomedical Communications (LHNC) with a specific emphasis placed on the questions of acceptance by and importance to the professional communities of the LHNC.

The major objectives of the LHNC as stated in the Federal Register are

- (1) to design, develop, implement, and manage a Biomedical Communications Network;
- (2) to assist the biomedical community in identifying and developing products and services for dissemination through the network;
- (3) to develop networks and information systems to improve health education, medical research, and the delivery of health services;
- (4) to apply technology to the improvement of biomedical communications;
- (5) to represent DHEW in Federal activities related to biomedical communication activities; and
- (6) to serve as the focal point in the Department for development and coordination of biomedical communications, systems, and network projects.

The Board's review was thorough and complete, as the discussion minutes will indicate. Briefly, the Board concluded that the objectives leading to the creation of the LHNC remain vitally important; that the purposes and functions of the LHNC promise major, significant services allowing the DHEW to meet urgent public needs in health care; and that the technical tools and planning/programming capabilities accessible to DHEW via the current expertise of the National Library of Medicine clearly allow the accomplishment of the LHNC objectives.

On the other hand, the Board is seriously concerned that the Lister Hill National Center for Biomedical Communications is currently unable, for a variety of reasons not under control of the National Library of Medicine, to carry out the responsibilities assigned to it under PL 90-456 and the Secretary of HEW's memorandum of September 1968.

The Lister Hill National Center has neither the authority nor the resources within the Department to perform these functions. It can be a focal point within the Department as intended only if it speaks with the authority invested in your Office. With such authority, we are quite certain that the 74 million dollars now identified as being spent by your three health agencies and biomedical communications projects will produce substantially more meaningful and needed results by provision of overall direction and guidance through the LHNC. In fact, we are convinced that major steps in this direction can be accomplished by redistribution of currently available funding in DHEW to support such LHNC activities and would not in the first instance require additional DHEW funding requests. This would necessitate establishment of priorities based on needs and a planned application of technology. The Lister Hill National Center already has the nucleus of the planning and technological expertise demanded.

It is our strong conviction that the Lister Hill National Center could best fulfill its mission, and that the ultimate delivery of health services to the public could be most significantly enhanced, by assignment to and implementation of the appropriate DHEW management and operational functions to the Center, together with the provision of the requisite resources commensurate with such functions.

To emphasize the strength of our beliefs in these areas, the Board adopted the following Resolution:

#### RESOLUTION

1. The Board reaffirms its conviction that the development of the LHNC and its planned functions and programs will make a vitally significant contribution to the purposes and objectives of DHEW;
2. The Board strongly urges you to utilize the Center as your delegated agent to coordinate biomedical communication projects and to authorize direct liaison between the Center and your staff in appropriate activities.

3. The Board urges that the DHEW, and particularly through the Office of the Assistant Secretary for Health and Scientific Affairs, consummate those necessary actions originally intended in PL 90-456, and in the Secretary DHEW's memorandum of September 1968, to allow the NLM/LHNC to properly discharge its assigned responsibilities. The background and circumstances leading to this recommendation have been outlined earlier in the body of this letter.

We strongly urge your favorable consideration of such actions and would be most pleased to present our views and more detailed recommendations and considerations to you in person at your earliest convenience.

We are well aware that such actions, if they are to be properly effective, could possibly imply some restructuring or organizational adjustments, some within current NLM cognizance, others within NIH/DHEW, to allow the NLM/LHNC to accomplish its goals. We simply suggest that the central emphasis should be given to consideration of the variety of means by which the NLM/LHNC can accomplish its goals - goals which we remain convinced are vital, exciting, and of great significance to the public and to the medical community.

Sincerely yours,

/ signed  
A/ R. Zipf  
Chairman, Board of Regents  
National Library of Medicine

cc: Director, NIH