

THE NATIONAL LIBRARY OF MEDICINE

**ENVIRONMENTAL HEALTH
INFORMATION OUTREACH PROGRAM**

PROCEEDINGS

National Library of Medicine
Bethesda, Maryland
January 28–29, 2008

Advances in Science: Research and Outreach

Prepared for
Specialized Information Services Division
National Library of Medicine

Prepared by
Medical Education and Outreach Group
Oak Ridge Institute for Science and Education

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The **Oak Ridge Institute for Science and Education** (ORISE) is a U.S. Department of Energy institute focusing on scientific initiatives to research health risks from occupational hazards, assess environmental cleanup, respond to radiation medical emergencies, support national security and emergency preparedness, and educate the next generation of scientists. ORISE is managed by Oak Ridge Associated Universities.

HISTORY OF THE NATIONAL LIBRARY OF MEDICINE

The National Library of Medicine (NLM) was established in 1836 as the library of the Army Surgeon General's Office. The Armed Forces Institute of Pathology and its Medical Museum were founded in 1862 as the Army Medical Museum. Throughout their history, the Army Medical Library and the Army Medical Museum often shared quarters. From 1866 to 1887, they were housed in Ford's theatre after the assassination of President Abraham Lincoln.

In 1956, the Library collection was transferred from the control of the Department of Defense to the Public Health Service of the Department of Health, Education and Welfare and renamed the "National Library of Medicine." The Library moved to its current quarters in Bethesda, Md., on the campus of the National Institutes of Health, in 1962.

The National Institutes of Health (NIH) is the world's leader in medical research. Comprised of twenty-seven separate Institutes and Centers, NIH is the primary federal agency for conducting and supporting medical research and provides leadership and financial support to top scientists in every state in the nation and throughout the world.



The Library makes available a wide variety of health and medical information to professionals in the health sciences and researchers in academia, industry and other institutes. Abstracts and full texts from 5,000 journals, complete genome sequences for hundreds of species, including humankind, and registries for over 40,000 clinical trials are all published online.

For the health care consumer, NLM makes available, on its Web site <http://medlineplus.gov/>, the most accurate, up-to-date information on 700 common diseases, 350 genetic diseases, and a database of drug information and adverse drug reactions. Currently, the Web site receives over one billion hits per year from some 194 countries throughout the world.

The [Division of Specialized Information Services](http://sis.nlm.nih.gov/) (SIS, <http://sis.nlm.nih.gov/>), [National Library of Medicine](http://www.nlm.nih.gov/) (NLM), creates information resources and services in toxicology, environmental health, chemistry, and HIV/AIDS. The [Office of Outreach and Special Populations](http://sis.nlm.nih.gov/outreach.html) (OOSP) (<http://sis.nlm.nih.gov/outreach.html>) manages and develops programs in an effort to eliminate disparities in accessing health information by providing community outreach support, training health professionals to use NLM's health information databases, and designing special population Web sites that address health information in underserved and special populations.

As the world's largest medical library, the NLM works with eight other regional libraries and 5,000 libraries in medical schools, hospitals, and institutes to provide both specialized and general information in all aspects of the biological and medical sciences.

For more information: <http://www.nlm.nih.gov/services/nlmhistory.html>

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**NATIONAL LIBRARY OF MEDICINE
ENVIRONMENTAL HEALTH INFORMATION OUTREACH PROGRAM MEETING**

**Board Room
Mezzanine, Bldg. 38
January 28-29, 2008
Henry Lewis III, Pharm.D., Presiding**

AGENDA

Monday—January 28, 2008

- 8:15 a.m.–8:45 a.m. Registration and Continental Breakfast
- 8:45 a.m.–9:00 a.m. **Meeting Opening and Welcome**
Henry Lewis III, Pharm.D.
Chairman, EnHIOP
- 9:00 a.m.–9:15 a.m. **Introductions**
Henry Lewis III, Pharm.D.
Chairman, EnHIOP
- 9:15 a.m.–9:30 a.m. **Remarks**
Donald A.B. Lindberg, M.D.
Director, NLM
- 9:30 a.m.–10:15 a.m. **Division of Specialized Information Services Update and
Disaster Information Management Research Center**
Steven Phillips, M.D.
Associate Director, Specialized Information Services, NLM
- 10:15 a.m.–10:30 a.m. BREAK
- 10:30 a.m.–11:15 a.m. **Methods of Increasing Contributions to the Health Sciences
Literature and to NLM Databases**
Keith Jackson, Ph.D., Vice President for Research
Florida A&M University
Tallahassee, Florida

- 11:15 a.m.–11:45 a.m. **Finding the Key: Healthier Homes & Communities**
Tanya Maslak, M.P.H.
Director, Environmental Health Promotion
Society for Public Health Education (SOPHE)
Washington, D.C.
- 11:45 a.m.–1:10 p.m. **Working Lunch**
Translational Research
Anthony Hayward, M.D., Ph.D., Associate Director
National Center for Research Resources (NCRR)
National Institutes of Health
Bethesda, MD
- Fred Taylor, Ph.D.
Division of Research Infrastructure
National Institutes of Health
Bethesda, MD
- 1:10 p.m.–1:30 p.m. **Group Picture**
NLM History of Medicine
- 1:30 p.m.–3:30 p.m. **NLM Long Range Plan/EnHIOP Strategic Planning**
Henry Lewis III, Pharm.D.
Dianne Sutton, M.A.
Sutton Enterprises, Kensington, MD
- 3:30 p.m.–3:40 p.m. BREAK
- 3:40 p.m.–4:45 p.m. **NLM Long Range Plan/EnHIOP Strategic Planning**
Henry Lewis III, Pharm.D.
- 4:45 p.m.–5:00 p.m. **Wrap-up and Day 2 Overview**
Henry Lewis III, Pharm.D.
Chairman, EnHIOP

Tuesday—January 29, 2008
National Library of Medicine: Board Room

- 8:00 a.m.–8:45 a.m. Registration and Continental Breakfast
- 8:45 a.m.–9:00 a.m. **Remarks**
Henry Lewis III, Pharm.D.
Chairman, EnHIOP
- Welcome and Greetings**
Betsy Humphreys
Deputy Director, NLM
- 9:00 a.m.–10:30 a.m. **EnHIOP Outreach Projects**
Robert Anders, *University of Texas at El Paso*
Cynthia Henderson, *Morehouse School of Medicine*
David Hurley, *Diné College*
Robert Copeland, *Howard University*
Constance Hendricks, *Zeta Phi Beta Sorority*
- 10:30 a.m.–10:40 a.m. BREAK
- 10:40 a.m.–12:15 p.m. **EnHIOP Outreach Projects**
Sarah Coulter Danner, *Oglala Lakota College*
Milton Morris, *Benedict College*
Patricia Matthews-Juarez, *Meharry Medical College*
Paul Tchounwou, *Jackson State University*
- 12:15 p.m.–12:30 p.m. **Wrap-up**
Henry Lewis III, Pharm.D.
EnHIOP Chairman
- 12:30 p.m. **Adjourn**

**DEPARTMENT OF HEALTH AND HUMAN SERVICES
NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE**

**PROCEEDINGS OF THE ENVIRONMENTAL HEALTH
INFORMATION OUTREACH PROGRAM (EnHIOP) MEETING
January 28-29, 2008**

The Environmental Health Information Outreach Program (EnHIOP) convened for its 9th session on January 28, 2008, at 8:45 a.m. in the National Library of Medicine Board Room. The meeting continued on January 29, 2008. Dr. Henry Lewis III, Dean, College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, and EnHIOP chairman, presided. The theme of the meeting was *Advances in Science: Research and Outreach*.

ATTENDEES

Representatives from Participating Institutions

Dr. Bruce Allen, Jr., Charles R. Drew University of Medicine and Science
Dr. Robert L. Anders, University of Texas at El Paso
Dr. Ann Barbre, Xavier University of Louisiana
Dr. Robert Copeland, Jr., Howard University College of Medicine
Mrs. Sarah Coulter Danner, Oglala Lakota College
Dr. Pamela Hammond, Hampton University
Dr. Jean Hampton, Texas Southern University (Attended for Dr. Kimberly Pounds)
Ms. Cynthia Henderson, Morehouse School of Medicine
Dr. Diógenes Herreño-Sáenz, University of Puerto Rico Medical Sciences Campus
Mr. David Hurley, Diné College (Alternate)
Dr. Henry Lewis III, Florida A&M University (EnHIOP Chairman)
Dr. Patricia Matthews-Juarez, Meharry Medical College (Alternate)
Dr. Milton Morris, Benedict College
Dr. Allan Noonan, Morgan State University
Dr. Cheryl Taylor, Southern University at Baton Rouge
Dr. Paul Tchounwou, Jackson State University
Dr. Daniel Wildcat, Haskell Indian Nations University
Dr. Doris Withers, Medgar Evers College

Consultants to the EnHIOP

Mr. John Scott, Center for Public Service Communications
Dr. Melvin Spann, NLM, retired (EnHIOP Executive Secretary)
Dr. Bailus Walker, Howard University (Senior Scientific Advisor)

Speakers

Dr. Anthony Hayward, National Center for Research Resources, NIH
Dr. Constance Hendricks, Auburn University
Dr. Keith Jackson, Florida A&M University
Ms. Tanya Maslak, Society for Public Health Education
Ms. Dianne Sutton, Sutton Enterprises
Dr. Fred Taylor, National Center for Research Resources, NIH

NLM Staff

Dr. Donald A.B. Lindberg, Director, NLM
Ms. Betsy Humphreys, Deputy Director, National Library of Medicine
Dr. Donald King, Office of the Director, NLM
Dr. Elliott Siegel, Office of the Director, NLM
Mr. David Nash, Office of the Director, NLM
Dr. Steven Phillips, Division of Specialized Information Services
Ms. Gale Dutcher, Division of Specialized Information Services
Ms. Cynthia Gaines, Division of Specialized Information Services (EnHIOP Project Officer)
Ms. Florence Chang, Division of Specialized Information Services
Ms. Jeanne Goshorn, Division of Specialized Information Services
Ms. Deborah Lovelace, Division of Specialized Information Services
Ms. Cassandra Allen, Division of Specialized Information Services
Ms. Stacey Arnesen, Division of Specialized Information Services
Ms. Deena Pers, Division of Specialized Information Services
Mr. Victor Cid, Division of Specialized Information Services
Ms. Nicole Dancy, Division of Specialized Information Services
Ms. Cindy Love, Division of Specialized Information Services
Mr. Sheldon Kotzin, Library Operations
Ms. Becky Lyons, Library Operations
Dr. Angela Ruffin, Library Operations
Ms. Lisa Boyd, Library Operations
Ms. Georgette Whiting, Division of Specialized Information Services
Ms. Karen Falconer, Division of Specialized Information Services
Ms. Colette Nelson, Division of Specialized Information Services

ORISE Staff

Ms. Wilma Templin-Branner, Oak Ridge Institute for Science and Education
Ms. Mona Carrasco, Oak Ridge Institute for Science and Education
Ms. Diane De Binder, Oak Ridge Institute for Science and Education

I. Welcome and Opening Remarks

Dr. Henry Lewis III, Dean, College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, and EnHIOP chairman, welcomed EnHIOP representatives and guests and introduced Dr. Donald A.B. Lindberg, Director, NLM.

Dr. Lindberg welcomed representatives, speakers, and guests to the NLM. He expressed his support for the EnHIOP and discussed the need for anti-genetic discrimination laws in light of the extensive nature of human genome discoveries. This would be a good future topic for an EnHIOP meeting. Several EnHIOP representatives are engaged in activities related to the human genome:

- Dr. Doris Withers, Medgar Evers College (MEC), studied the human genome at Howard University in 2007 and wrote a proposal to infuse genomic education into the curriculum at MEC and developed a course. She is also working with a heart study on genomics education in the community, and with the Brooklyn Public Library on genomic education called “Libraries of the Future,” and with Dr. Vence Bonham, Jr., Senior Advisor to the Director on Societal Implications of Genomics, at the Human Genome Research Institute. Medgar Evers’ 2008 EnHIOP Award is related to genomics.
- Dr. Patricia Matthews-Juarez is co-writing an article on the importance of cultural competency in the face of discoveries in human genomic sequences. It is important to realize that these discoveries will not close the gap relative to health disparities. Communication, patient empowerment, and implementation of appropriate policies are critical to this struggle. The article will be published in May 2008 at Morgan State University.

Attendees received a copy of The Crisis Magazine’s special issue, *The Fight for Environmental Justice*, July/August 2007. One article was written by Dr. Bailus Walker, EnHIOP senior scientific advisor and NLM consultant. The issue is available for downloading and printing on the Web at <http://online.qmags.com/TCR0707/>.

Another excellent outreach publication is MedlinePlus Magazine, which is available on the Web at <http://www.nlm.nih.gov/medlineplus/magazine.html>. This quarterly guide for patients and their families contains the latest, most authoritative medical and health care information from the National Institutes of Health. As an outreach tool, it could easily be placed in libraries, patient waiting rooms, community clinics, and other places where people gather.

II. SIS Updates and the Disaster Information Management Research Center

Dr. Steven Phillips, Associate Director, Specialized Information Services Division (SIS) highlighted changes in SIS and the creation of a new Disaster Information Management Research Center.

Changes in SIS Organization

The SIS Office of Outreach and Special Populations (OOSP) will become a branch on the same level with the Biomedical Files Implementation Branch and the Biomedical Information Services Branch. Ms. Gale Dutcher will be Branch Chief. A new office, the Disaster Information Management Research Center Office, is being created and will be headed by Ms. Stacey Arnesen. The new office will identify relevant literature, team librarians with emergency planners, provide tools and services, provide training and continuing education, and conduct research in disaster information management.

Disaster Information Management Research Center

In 2006, the medical aspects of disaster preparation and response were returned to the Department of Health and Human Services from the Department of Homeland Security. Disaster information management was then included in the NLM 2006-2016 Long Range Plan, and the establishment of a Disaster Information Management Research Center (DIMRC) at NLM was mandated under Goal 1 of the plan: “Seamless, Uninterrupted Access to Expanding Collections of Biomedical Data, Medical Knowledge, and Health Information.” The objective is to create a single government agency dedicated to providing disaster information and training others to do the same.

Many existing SIS tools and resources already provide disaster and emergency response information, including the Toxicology Data Network (TOXNET), Wireless Information System for Emergency Responders (WISER), Radiation Event Medical Management (REMM), and international outreach programs in Central America and Asia. SIS is building on these tools to create a U.S. government portal dedicated to disaster information preparedness and response. The scope of disasters includes acts of nature, accidents, terrorism (including cyber terrorism), and pandemics.

The National Network of Libraries of Medicine (NN/LM) and NLM’s MedlinePlus Go Local are additional conduits for information. NN/LM’s eight regional medical libraries provide communication hubs with database resources, data triage centers, and histories of regional events, with the ability to plan and train for regional response to disasters as a team. All are connected with backup plans. Go Local is an NLM service that partners with libraries and library consortia to provide national coverage of health services in local geographic areas.

SIS has established a Disaster Information Specialist Pilot Project, headed by Ms. Cindy Love, in which librarians are working with the following agencies:

- The NIH Library and the Secretary’s Operations Center, Office of Preparedness and Emergency Operations, Office of the Assistant Secretary for Preparedness and Response, HHS, Washington, D.C.

- Uniformed Services University of the Health Sciences Learning Resource Center and the USUHS Center for Disaster and Humanitarian Assistance Medicine, Bethesda, Md.
- Bishopric Medical Library, Sarasota Memorial Hospital; the Sarasota Memorial Hospital, the Sarasota County Health Department; and the Sarasota County Emergency Management Program, Sarasota, Fla.
- Frederick L. Ehrman Medical Library, New York University School of Medicine and New York University, New York, N.Y.

III. Methods of Increasing Contributions to the Health Sciences Literature and to NLM Databases

Dr. Keith Jackson, Vice President for Research, Florida A&M University (FAMU), discussed contributions of Historically Black Colleges and Universities (HBCUs) to the health sciences literature in the context of an article that appeared in the August 3, 2007 issue of *Science Magazine: U.S. Output Flattens, and NSF Wonders Why*. The article pointed to a National Science Foundation study on the output of scientific articles from 1988–2003, which found a “flattening” of U.S. output in research publications beginning in 1992 despite overall increases in funding and personnel during that same time.

The article also listed the top 200 universities with the largest growth as illustrated by the amount of federal R&D funding for 1992–2001. At the top of this list were three HBCUs: Charles R. Drew University of Medicine & Science (127% growth), Florida A&M University (116% growth), and Clark Atlanta University (101% growth). All three of these HBCUs offer the Ph.D. degree. One can conclude from this that research productivity at HBCUs offering the Ph.D. degree is extremely high, despite the overall downward trend.

Publication in peer-reviewed journals is considered the gold standard of research productivity, and training of graduate students to develop more PhDs leads to more research results. The challenge is finding support for not only the graduate students, but the faculty as well.

At FAMU, the largest research program is in the College of Pharmacy and Pharmaceutical Sciences, where groundbreaking research in the area of Parkinson’s disease may lead to a cure. Research highlights include the following:

- Lysosomal Protease Alterations Following Oxidative Stress: Implications in the Pathogenesis of Parkinson’s disease—Donald E. Palm, Ph.D.
- Development of peptides and antibodies to diagnose and treat neurodegenerative diseases such as Parkinson’s disease and vascular dementia—Karanya Kandimalla, Ph.D.

Another major research program at FAMU is in the department of physics. Major research areas include astrophysics, condensed matter physics, plasma physics, laser/plasma interactions, fusion research, high energy physics, computational dynamics of atomic and molecular systems,

nanoscience, materials processing and characterizations, and ultra-fast spectroscopy. FAMU is also a major contributor to the nation's physics workforce. According to the National Science Foundation, an average of fifteen Ph.D.s in physics are awarded to African Americans each year in the United States. FAMU awarded five Ph.D. physics degrees in the 2006–2007 school year.

IV. Finding the Key: Healthier Homes & Communities

Ms. Tanya Maslak, M.P.H., Director, Environmental Health Promotion, Society for Public Health Education (SOPHE), gave an overview of SOPHE and discussed the organization's environmental health activities and future plans.

SOPHE is an independent professional organization dedicated exclusively to public health education research and health promotion with a strong emphasis on continuing education. As an example, SOPHE has produced a series of Webinars on emergency preparedness and response. The society also publishes two journals, *Health Education & Behavior* (published bi-monthly) and *Health Promotion Practice* (published quarterly), as well as other publications including a bi-monthly printed newsletter and a weekly e-newsletter.

“Finding the Key: Healthier Homes & Communities” is a year-long environmental health education campaign to address environmental health literacy, launched during National Health Education Week (NHEW), October 15–20, 2007. Objectives are to increase awareness of environmental health issues and the role of health educators in addressing them. Resources for this initiative include the following:

- The Finding the Key Webinar, archived at http://www.sophe.org/content/ce_self-study.asp
- A planning guide and activity tool kit, available for downloading on the SOPHE Web site at <http://www.sophe.org>—tools and ideas for increasing environmental health awareness at the local level with sample activities

V. Translational Research

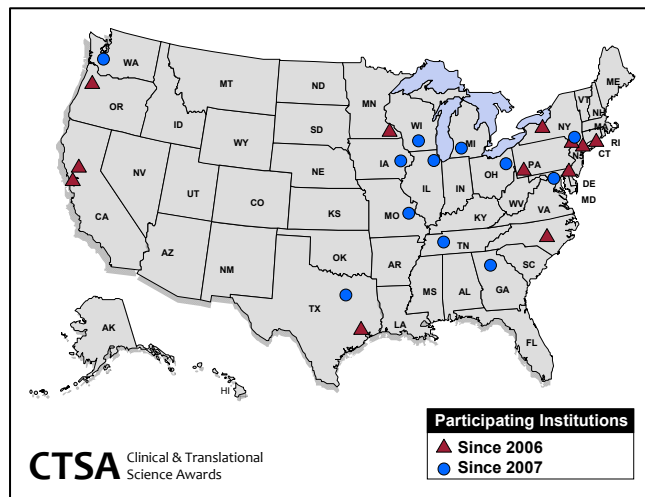
Dr. Anthony Hayward, Associate Director for Clinical Research, National Center for Research Resources (NCRR), NIH, and Dr. Fred Taylor, Division of Research Infrastructure, NIH, discussed the NCRR's Clinical and Translational Science Awards (CTSA) Program.

The NCRR provides approximately half a million dollars a year in infrastructure grants. The vision of the CTSA program is to strengthen clinical research as an academic discipline, provide resources to researchers, promote resource and data sharing, and advance the safety and quality of research through adoption of good clinical practices and effective use of informatics. Community involvement is a vital part of the program and is critical in setting research priorities that directly affect patients and enhance research perspectives (e.g., health disparity research).

This will be accomplished through development of a national consortium that will work together to transform the discipline.

The CTSA program began in 2006 with awards to twelve academic health centers (AHCs) across the country. The goal is to implement the program in sixty AHCs by 2012 with annual funding of approximately \$500 million. Most CTSA awardees are multi-school “institutes.” All include an institution that can award higher degrees in clinical research.

Currently, there are twenty-four established AHCs. Four of the EnHIOP institutions are currently participating in the CTSA program. Current EnHIOP participants are:



- Meharry Medical College, as a partner with Vanderbilt University (2007)
- Morehouse College of Medicine, as a partner with Emory University, Georgia Institute of Technology, and Children’s Healthcare of Atlanta (2007)
- Charles R. Drew University of Medicine and Science
- Jackson State University

Steering committees, composed of representatives from all of the AHCs, provide a forum for communication with the NIH to identify needs, goals and priorities for different topics of focus, including informatics, community engagement, evaluation, education/career development, public/private partnerships, and translational research and technologies. These groups also provide a platform for the adoption of common standards.

NCCR is currently pursuing involvement of Institutional Development Award (IDeA) states in the CTSA Program. The IDeA program was established to enhance the competitiveness of institutions in states historically less successful in receiving NIH funding through providing funding for research infrastructure and faculty development.

VI. EnHIOP Strategic Planning

Ms. Dianne Sutton, Sutton Enterprises, Kensington, Md., guided the EnHIOP representatives in a strategic planning exercise. Representatives present were divided into four groups to discuss each of the four NLM long range planning goals as they relate to the EnHIOP. Groups and outcomes were as follows:

Strategic Planning Group 1

Focus: Seamless, Uninterrupted Access to Expanding Collections of Biomedical Data, Medical Knowledge, and Health Information

Members: Dr. Patricia Matthews-Juarez, Dr. Paul Tchounwou, Ms. Cynthia Henderson, Dr. Henry Lewis, Dr. Bailus Walker

- Challenges:**
- Strengthen teaching and research at HBCUs/MIs using information technology
 - Ensure continuity of EnHIOP school representatives
 - Changes in makeup of group with added Hispanic and Tribal schools
 - Increase workforce diversity in environmental health
 - Assess access capabilities at EnHIOP institutions
 - (NLM) enhance EnHIOP representatives to provide seamless, uninterrupted access to expanding biomedical data
 - (NLM) ensure EnHIOP institutions have the capability to provide seamless, uninterrupted access to NLM resources and disaster information

- Strategies:**
- Survey EnHIOP institutions to determine needs and identify virtual private networks (VPN) at each school
 - Increase active participation of EnHIOP representatives in SIS activities and membership on other NLM boards and committees to maintain ongoing relationship
 - Increase visibility in publications
 - Change name of group to EnHIP, “Environmental Health Information Partnership,” to reflect the collaborative outreach efforts of the group

Strategic Planning Group 2

Focus: Trusted Information Services that Promote Health Literacy and the Reduction of Health Disparities

Members: Dr. Robert Copeland, Mr. David Hurley, Dr. Allan Noonan, Dr. Melvin Spann, Mr. John Scott

- Challenges:**
- Changing needs at representative institutions and their communities and NLM’s role in responding to those needs
 - Discovering how to use the collective strength of the EnHIOP institutions to create a national agenda for collection and sharing of environmental health and toxicology information
 - Lack of EnHIOP visibility in literature and at professional meetings

- Strategies:**
- Determine current needs of representative institutions/communities and share that information with NLM to determine its role in responding to those needs
 - Promote EnHIOP as the “brain trust” in the U.S. for environmental health and toxicology experts in the minority community
 - Identify mechanism for sharing policy/research agendas with other minority organizations such as the Association of Minority Health Professions Schools, National Association for Equal Opportunity in Higher Education, the Consortium of African-American Public Health Programs, and the United Negro College Fund Special Programs Corporation, which are positioned to influence national political agendas
 - Work with and promote use of scientific and public media (e.g., television, radio, etc.) to disseminate information
 - Increase publication of HBCU research and create “searchable” databases of HBCU faculty and student research, dissertations and theses

Strategic Planning Group 3

Focus: Integrated Biomedical, Clinical, and Public Health Information Systems that Promote Scientific Discovery and Speed the Translation of Research into Practice

Members: Mrs. Sarah Coulter Danner, Dr. Bruce Allen, Dr. Ann Barbre, Dr. Diogenes Herreno-Saenz, Dr. Cheryl Taylor, and Dr. Daniel Wildcat

- Challenges:**
- Overcome institutional/organizational compartmentalization and disciplinary specialization to increase inter- and intra-agency activity communication
 - Lack of community involvement in planning and design of information systems
 - Medical/health information often not understandable to underserved communities—needs different modes of presentation (especially on reservations)
 - Limited resources

- Strategies:**
- EnHIOP should model inter- and multi-communication levels
 - Host a stakeholders meeting or conference where stakeholders are partners/participants
 - Devise different ways to present information
 - Develop a publication, a Web site (or enhance existing Web site), a DVD of EnHIOP activities, and a communication plan
 - Increase and enhance external funding resources for EnHIOP activities—establish EnHIOP “internships” at NLM

Strategic Planning Group 4

Focus: A Strong and Diverse Workforce for Biomedical Informatics Research, Systems Development, and Innovative Service Delivery

Members: Dr. Doris Withers, Dr. Robert Anders, Dr. Pamela Hammond, Dr. Jean Hampton, and Dr. Milton Morris

- Challenges:**
- Lack of role models in underrepresented populations
 - Related and education training opportunities
 - Lack of financial resources and people to do the work
 - Dissemination of information
 - Prioritizing
 - Finding appropriate internal (campus) and external partners
 - Lack of sustainability of programs (funding)

- Strategies:**
- Develop a consortium for MSI to facilitate librarian education
 - Develop or augment partnerships between universities and K-12s
 - Interactive traveling exhibits in public libraries and community centers
 - Revise current and target new curriculum initiatives and degree programs to underrepresented groups
 - Recruit current librarians for internships (week/summer/year) at NLM
 - Model education/curriculum (K-12)

Common Themes and Categories

Common themes and categories that emerged during the group discussion that followed the breakout sessions were as follows:

- Expansion of EnHIOP work in capacity assessment/building and dissemination of relevant information
- Trust, continued leadership, and partnership in collaboration and information dissemination
- Improvement of communication and dedicated resources in librarian internships, EnHIOP technology, and EnHIOP Web site
- Leadership (development of experts) and sustainability (financial resources) in traveling, training, targeting libraries/librarians

VII. Welcome and Remarks—Tuesday, January 29, 2008

Ms. Betsy Humphreys, Deputy Director, NLM, welcomed the group to the Library. She appreciated the opportunity to hear the reports on the EnHIOP schools' projects and how they are improving access to information in their communities.

A motion was made and seconded to change the name of the group from “Environmental Health Information Outreach Program” to “Environmental Health Information Partnership” to better reflect the cooperative outreach between NLM and the representative institutions. The name change had been suggested and discussed during the strategic planning session held on Monday afternoon, January 28. The motion passed and the name change will take effect prior to the next meeting.

VIII. EnHIOP Outreach Projects

Representatives from nine EnHIOP institutions gave progress reports on the projects for which they had received EnHIOP awards. Eight of the representatives reported on projects funded in 2007, while the Diné College report focused on a project funded in 2006. For summaries of all fourteen of the 2007 awards, see Appendix E. The project summary for the 2006 award project appears at the beginning of that update summary.

University of Texas at El Paso—El Paso, Texas

Development and Testing of Communication Card for Emergency and Disaster Preparedness for Monolingual Spanish-speaking Individuals with Limited Literacy (SIL)

Presenter: Dr. Robert Anders

Limited literacy among Spanish-speaking individuals is a critical issue in the El Paso area. El Paso borders Juarez, Mexico, with a population of 2.2 million people, and people move easily back and forth across the border. The El Paso area is also a potential target for terrorists due to the proximity of Fort Bliss, the largest military base in the nation, making disaster planning a priority.

The University of Texas at El Paso (UTEP) has partnered with CommuniCard, Inc. for this project to develop a linguistically and culturally tailored CommuniCard for use by Spanish-speaking individuals with limited literacy (SIL) in the event of an emergency or disaster and to be used as an educational tool. The card will consist of approximately five images and minimal text, which will be translated into Spanish by a certified translator, to convey the Homeland Security “Ready America” three-point plan of action for individuals.

To evaluate the CommuniCard's effectiveness, a simulation evaluation tool, based on the Homeland Security Ready America three-point action plan for individuals, is being developed to measure the quantity and accuracy of expected behaviors of 150 SIL respondents who meet

inclusion criteria. A pre- and post-test design will be used to collect the data on the CommuniCard's effectiveness.

Status of project:

- CommuniCard graphics and English text have been developed
- The text is being translated into Spanish
- Participants are being recruited for the CommuniCard focus group
- Anticipated date of project completion is March 2008.

Morehouse School of Medicine—Atlanta, Georgia

Project Prepare: Disaster and Emergency Planning Outreach Workshops at Select Atlanta Churches

Presenter: Ms. Cynthia Henderson

Morehouse School of Medicine will conduct workshops on disaster and emergency planning at three Atlanta churches. Objectives are for workshop participants to be able to identify at least six of the twelve items in the basic Homeland Security emergency kit, to create a disaster plan and learn how to share it with relatives not living with them, and to know where to go for information about disaster planning. At least 500 participants are expected.

National Library of Medicine databases, such as WISER, Haz-Map, Household Products, Tox Town, TOXMAP, and MedlinePlus will be demonstrated at the interactive workshops and participants will receive a resource manual.

Success will be measured at the end of the workshops by the number of participants who complete the following:

- Name at least six components of the Homeland Security Disaster Planning Kit
- Have a disaster/emergency plan at the end of the workshop and have identified a strategic location to keep it and/or share it with others
- Mail their disaster/emergency plan to someone in their family who does not live with them

Diné College, Center for Diné Studies—Shiprock, New Mexico

Navajo Ethno-Medical Encyclopedia (NEME) Project (2006 Award)

Presenter: Mr. David Hurley

PROJECT SUMMARY: *This project ensures the efforts are continued to complete the Navajo Ethno-Medical Encyclopedia (NEME), envisioned as a 10-volume compendium and repository of traditional Navajo Indian medical and healing knowledge. Ten volumes have already been sketched in outline form. Diné students who can read and type the Navajo language will retype the old typewritten transcriptions into electronic files for permanent, accessible, and transferable storage, using the modern Navajo Microsoft Word font. Their efforts will make it more readily and immediately available for incorporation into the ongoing work of the NEME, as other efforts will continue on researching new material and on codifying and incorporating the material from the early years of the project into modern computer word processing programs.*

This ambitious project, begun in the 1970s with funding from the National Institute of Mental Health (NIMH), involves the recording, transcription, and translation of interviews with Navajo traditional medicine practitioners and then organizing the information into a 10-volume set:

- I. Nílhch'ih *The Sacred Wind Spirit*
- II. Nitsáhákees *Thought and Mind Processes (Mental Health)*
- III. Igeh dóó Ootsá dóó Achí *Marriage, Conception, Pregnancy & Birth*
- IV. Ch'iyáán *Food and Nutrition*
- V. Doo Ál'íinii *Prescriptions for a Healthy Life*
- VI. Ajoohléii *Incompatibilities of Mind and Body*
- VII. Ts'íhniidóóh *Disease and Sickness*
- VIII. Tídílt'é *Injuries*
- IX. Lhóód *Sores*
- X. Aniné *Death*

Traditional Practitioners of Navajo medicine include the *hatathlis*, who have extensive training in one or more healing ceremonies; diagnosticians, who by developing innate gifts, can determine the cause of the problem and what kind of treatment to seek; and herbalists, who have developed the knowledge and understanding of herbs and how to use them.

This project includes participation from all three types of practitioners for a comprehensive understanding of Navajo health conceptions.

NIMH funding ended in 1981 and, with the exception of some continued transcription, the project lay dormant until 2006 when funding from the NLM made it possible to continue.

Funding is being provided by the National Cancer Institute for work on the three volumes that address information on cancer—the college is partnering with Mayo Clinic to focus on the content of these three volumes. The Native American Research Centers for Health Program of

the Indian Health Service (IHS) is also providing funding as a way to develop better, culturally appropriate health care at the Navajo Area IHS, which delivers health services to more than 200,000 members of the Navajo Nation.¹

Preserving the language is a key component of the project, as language loss means loss of knowledge. To date, hundreds of tapes have been transcribed and many translated. The tapes are being kept to preserve the language.

This project fulfills Goal 2 of the NLM Long Range plan: “Trusted Information Services that Promote Health Literacy, Improve Health Outcomes, and Reduce Health Disparities Worldwide.”

Howard University—Washington, D.C.

Healthy Homes/Healthy Bodies

Presenter: Dr. Robert Copeland

The objective of this project is to educate parents and young people on the potential dangers in and outside of the home environment and the steps that can be taken to prevent or reduce exposure to toxicants (healthy homes), as well as to instill healthy eating habits in young children so they are more likely to carry those habits into adulthood (healthy bodies). Involving parents is critical so that lessons learned can be reinforced in the home.

NLM’s consumer-oriented databases are being taught to children 7–11 years of age (ToxMystery resource) and their parents (MedlinePlus, Tox Town, and Household Products Database resources) during a series of free, four-hour workshops delivered on Saturdays. The workshops are advertised in schools, churches, and community groups to involve as many people as possible. Materials include the ToxMystery CDs, which the children really love. Tracie Potts, a national correspondent with NBC News, is collaborating on the project and has provided an obesity package component.

The goal of the project is that by the end of the program, the children and their parents will be able to:

- Identify and use the NLM’s consumer-oriented databases
- Create safe, non-toxic home environments
- Use MedlinePlus (parents) to participate in their own health care as well as that of their children
- Identify healthy and unhealthy diet choices
- Explain the consequences of an unhealthy diet

¹ Navajo Area IHS. <http://www.ihs.gov/FacilitiesServices/AreaOffices/Navajo/gimc/Nav.asp>

- Create snacks (children) that include recommended food groups
- Prepare a meal (parents) within a budget that includes all recommended food groups
- Complete age-appropriate written materials that reinforce the health diet mission
- Inspire others to choose health foods
- Complete a commitment to improve mealtime options and choices

Hampton University—Hampton, Virginia, and Zeta Phi Beta Sorority

The Z-HOPE™/NLM EnHIOP Initiative: National Disaster Preparation & Response Information Program

Presenter: Dr. Constance Hendricks, Zeta Phi Beta Sorority (formerly Dean, School of Nursing, Hampton University)

This project was funded through Hampton University School of Nursing, where Dr. Hendricks is the past dean. Dr. Hendricks is also the national Z-HOPE director of Zeta Phi Beta Sorority, Inc., an international sorority with a tradition of national service programs that meet critical needs of society. Z-HOPE, which stands for Zetas Helping Other People Excel, is the umbrella for the group's service projects and improving the health status in communities of color is a major focus of Zeta Phi Beta's outreach.²

The National Disaster Preparation and Response Information Program was designed to empower individual chapters across the United States to plan, prepare, and respond to natural and man-made disasters and to share that expertise with others in their communities. High-performing chapters within each of the eight regions of the sorority's infrastructure were recommended by their Regional Directors for participation in the program. Implementation of the program involves conducting at least four *Disaster Preparedness 101* training sessions in their community, with at least twenty-five participants per session, over the twelve-month timeframe of the project. Sessions included dissemination of disaster preparedness information.

Through January 2008, this project has touched the lives of 16,667 individuals (non-sorority members) in the communities in which it has been implemented.

Oglala Lakota College—Pine Ridge, South Dakota

Taking Charge—Living Wisely: Ek' sabe' yah an unpi, Phase IV

Presenter: Mrs. Sarah Coulter Danner

Oglala Lakota College (OLC) is located on the Pine Ridge Indian Reservation in southwestern South Dakota and encompasses three of the five South Dakota counties identified by the Harvard School of Public Health in September 2006 to have the lowest life expectancy in the United States. The extreme poverty on the reservation is a contributing factor to many of the health

² Zeta Phi Beta Sorority, Inc. <http://www.zphib1920.org/welcome.html>

challenges faced by the residents there, which include high rates of teen pregnancy, infant mortality, heart disease, cancer, diabetes, and chronic liver disease.

Taking Charge—Living Wisely seeks to enable and instill healthy lifestyle changes in the Oglala Lakota people through use of NLM database information resources. In a population that is thinly spread out over almost 5,000 square miles with little or no access to computers at home, accessing the Internet is difficult, at best. Staff persons travel to each of the nine college centers across the reservation and set up laptops to assist people in finding the information they need and teach them how to find information in NLM's databases.

Each year, student orientation in the first semester includes teaching the students how to use the computer to access the NLM databases. During the second semester, students are required to bring at least one child and one elder with them to use the computer, as well as to introduce them to the school.

New initiatives in this phase of the project include:

- Working with the high schools on health careers, the OLC nursing program, and genomics (in collaboration with Dr. Doris Withers, Medgar Evers College).
- Making a culturally appropriate promotional DVD, in partnership with the OLC video department, to be used in the high schools and in the college centers on the reservation.
- Using iPods to support clinical labs for the students – Students will use the iPods, which will contain demonstrations of the nursing skills they need to learn, for practice. The iPods can also be used for case studies to apply the critical thinking skills. There will be four iPods in the lab, so four students at a time can practice their skills.

Benedict College—Columbia, South Carolina

Facilitating Campus Awareness of the Role of National Library of Medicine Databases in Preventing Potential Health or Environmental Disasters

Presenter: Dr. Milton Morris

The goal of this project is to provide exposure to the NLM across the entire college. Students in the Benedict College Environmental Health Association (BCEHA), which has forty-two students and eight officers, are being trained on the use of the NLM databases for environmental health emergency information. The students then use the NLM resources to research disasters and create either a flyer or write a research paper and submit it for judging. Awards are given for the best flyers/papers. The flyers must depict a specific disaster and include a description of its human/environmental impact and a recommendation on how to handle such an occurrence. Research papers must describe how environmental and/or health disasters occur, how they impact humans and the environment, and how they might be abated or prevented. To date, one writing award and three awards for flyers have been given. Topics have included drought in Africa, deforestation, and water pollution.

Meharry Medical College—Nashville, Tennessee

Health Literacy Network Development

Presenter: Dr. Patricia Matthews-Juarez

Meharry Medical College (MMC) is located in Nashville, Tenn., a metropolitan area of more than 600,000 in Davidson County, where 25,000 individuals in the northern part of the city are considered poor and underserved. MMC has a long history of active outreach in the community and faith-based programs are particularly effective, since the city is in the heart of the Bible belt. The school's Faith-based Health Literacy Network electronic information system began with NLM/EnHIOP funding in 2006, and will be expanded with this year's project funds to include response information on emergency and disaster preparedness. The major disaster threats in middle Tennessee have been identified as tornadoes (there have been nineteen in the last seven years), earthquakes (the New Madrid Fault Line in Memphis is predicted to have activity within the next fifteen years), and chemical spills (Interstates 40 and 65 are major transportation corridors for trucks with chemical payloads).

The Public Libraries of Nashville and Davidson County serve as key partners in the project, providing services, including a list of emergency preparedness Web sites and hands-on Internet training on a regularly scheduled basis: J. Alexander Lobby Library, Mary Pruitt Library, and Bordeaux Branch Library.

Four churches, each with an enrolled membership of between 400 and 600, are participating in the expansion phase: Claiborne Family of Faith, St. Luke CME Church, Mt. Bethel Baptist Church, and Metropolitan Interdenominational Church. Activities include Web-based training for the selected coordinators from each church, formulation of a disaster plan, posting of the plan on the Internet for the churches, sharing of information with other churches, and publication of the process and outcomes. Four events have been held from October 2007 through January 2008 in which participants have been asked to outline how their church would respond in a given situation (disaster simulation). The project assessment will include both summative and formative evaluations.

Jackson State University—Jackson, Mississippi

NLM Web-Based Resources: A Catalyst for Biomedical and Environmental Health Research and Education

Presenter: Dr. Paul Tchounwou

In September 2007, Jackson State University held its *Fourth Annual International Symposium on Recent Advances in Environmental Health Research*. The symposium has been successfully held since September 2004 and annually attracts more than 300 participants from more than twenty countries around the world. Proceedings are published in the *International Journal of Environmental Research and Public Health*, which is indexed in MEDLINE/PubMed. The goal of the EnHIOP project is to enhance the success of the annual symposium with a pre-symposium

workshop to familiarize participants with the contents and search strategies of relevant NLM information resources, highlight information on environmental health issues related to health disparities, and facilitate access to other national/international environmental health research resources.

The first workshop was conducted in September 2006 at the Third International Symposium for thirty-eight (38) participants, including a toxicology professor from Zagazig University in Cairo, Egypt. Thirty-three (33) participants attended the 2007 workshop, including a toxicologist from the University of Bordeaux, Bordeaux, France; a research scientist from the Institute of Medical Research and a public health scientist from the University of Yaoundé, both from Cameroon, Africa; and a research scientist in epidemiology and prevention from the National Cancer Institute, Genoa, Italy.

The following NLM databases/resources are covered in the workshop:

- MEDLINE/PubMed
- Chemical Identification (ChemIDplus)
- Hazardous Substances Data Bank (HSDB)
- Integrated Risk Information System (IRIS)
- Chemical Carcinogenesis Research Information System (CCRIS)
- Genetic Toxicology (GENE-TOX)
- International Toxicity Estimates for Risk (ITER)
- Toxicology Information Online (TOXLINE)
- Developmental and Reproductive Toxicology (DART)
- Toxics Release Inventory (TRI) and TOXMAP
- TOXSEEK—a meta-search engine for simultaneous searching of diverse biomedical, environmental health, and toxicological resources
- ALTBIB—a bibliography on alternatives to the use of live vertebrates in biomedical research and testing

Pre- and post-test evaluation tools are used to evaluate the effectiveness of the training. Results from 2007 indicated that prior to the workshop, less than 50 percent of the respondents had heard of or used the NLM databases, and after the workshop, from 68 to 88 percent of the respondents indicated that they would use the resources in the future.

APPENDICES

APPENDIX A

Environmental Health Information Outreach Program — January 28–29, 2008

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January 28–29, 2008

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APPENDIX B

Environmental Health Information Outreach Program — January 28–29, 2008

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APPENDIX B

Environmental Health Information Outreach Program — January 28–29, 2008

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Environmental Health Information Outreach Program — January 28–29, 2008

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Environmental Health Information Outreach Program — January 28–29, 2008

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Environmental Health Information Outreach Program — January 28–29, 2008

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Environmental Health Information Outreach Program — January 28–29, 2008

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APPENDIX E

Environmental Health Information Outreach Program — January 28–29, 2008

ENVIRONMENTAL HEALTH INFORMATION OUTREACH PROGRAM EnHIOP PROJECTS 2007

Benedict College – Columbia, South Carolina

Facilitating Campus Awareness of the Role of National Library of Medicine Databases in Preventing Potential Health or Environmental Disasters.

Within this project, principal investigators will routinely train student members of the Benedict College Environmental Health Association on the use of National Library of Medicine databases. These assigned students will develop attractive monthly flyers to inform the college about NLM database roles in preventing or preparing for health or environmental emergencies. The principal investigators or project administrators will then rate their flyers. Students with accepted flyers will receive stipends and will be permitted to disseminate their flyers at locations that provide greatest campus-wide access and visibility. At the conclusion of the project, a survey will be conducted to determine campus-wide awareness and attitudes about the project

Charles R. Drew University of Medicine & Science, Dept. of Oral and Maxillofacial Surgery – Los Angeles, California

Environmental and Toxicological Information Outreach

Objectives:

- a. To develop and pilot-test a disaster preparedness presentation in community settings that will include information about NLM online resources and the recently enacted California Universal Waste Rule.
- b. To increase the awareness of NLM online resources related to the use of toxicological, environmental, occupational, and hazardous materials/waste at Drew University.
- c. To provide instruction in the use of NLM Web-based resources.
- d. To enhance the use and the distribution of health-related information to the Drew University faculty, staff and students.

Target audience is expected to include high school students, church members, employees, professional staff and students of the Charles R. Drew University and its affiliated training sites. Approximately 300 individuals will be trained. Trainers include experts in the fields of toxicology, environmental health, and informational and instructional technology.

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Diné College – Shiprock, New Mexico

Survey of Unregulated Water Sources On Navajo Nation and Shortest Path Analysis for Emergency Response

Due to unavailability of clean water to many community members in the Navajo Nation, many unregulated water sources are currently being used. The goal of this project is to provide some preliminary testing of unregulated water sources currently in use and to provide information to Navajo Nation Environmental Protection Agency for further support and community education. In addition, through partnership with Loma Linda University's Geographic Information Systems (GIS) Public Health program, mapping of these sources, including global positioning system (GPS) coordinates of rural homes will be done with the intent of improving local emergency response to these community members. Many dwellings on the Navajo Nation lack clear addressing and local Community Health Representatives (CHRs) often have to rely on obscure directions to get to a particular home.

Goal 1: Improve Water Quality for Rural Communities Through Education

Goal 2: Provide GIS Mapping to Support Emergency Response to Rural Areas

Objective 1: Preliminary testing will be conducted in six chapter areas of most commonly used unregulated sources

Objective 2: Through GIS, map location of unregulated sources and houses in the area, including Shortest Path Analysis

Target Audience: NN EPA, Chapter members and NN Emergency Response Teams

Hampton University and Zeta Phi Beta Sorority – Hampton, Virginia

The Z-HOPE™/NLM EnHIOP Initiative: National Disaster Preparation & Response Information Program

The purpose of the Z-HOPE™/NLM EnHIOP Initiative, Disaster Preparation & Response Information Program, is the expansion of Zeta Phi Beta Sorority's current national community service initiative, Z-HOPE™ (Zetas Helping Other People Excel) combined with a concentrated focus on training and awareness education of communities of color with information on disaster preparedness and response using a train-the-trainer format.

This national, multi-site project will use culturally tailored interactive health promotion strategies to empower participants to plan, prepare and respond to natural and man-made disasters. The premise is that participation in the program will yield a cadre of informed, productive trained community citizens who will choose to exercise their knowledge of disaster preparation and response with others in their respective communities. It is anticipated that the additional resources will increase the capacity of the 56 selected chapters located in the selected communities across the nation to provide informative workshops to at least 5,000 persons between the ages of 12–90 years (a minimum of 25 per session) participants in their community.

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Howard University – Washington, D.C.

Healthy Homes/Healthy Bodies

The consumer-based databases (MedlinePlus, Tox Town, ToxMystery, Household Products Database, etc) of the NLM provide the much needed educational resources providing high quality information to parents to maintain a healthy and safe environment to their children. Once parents are aware of the potential dangers presented within and out of the home environment, steps can be taken to prevent or reduce exposure to toxicants. In addition, we propose to supplement the information provided by schools, parents and communities by creating a series of day-long interactive workshops for parents and young children to jointly learn about the importance of a healthy diet, and healthy eating options. Parent participation is critical to ensure that the lessons learned will continue to be reinforced in the home. By the end of the program, children and their parents will be able to use the NLM consumer databases and use them to take a more participatory role in their health care and health-related choices.

Jackson State University – Jackson, Mississippi

NLM Web-Based Resources: A Catalyst for Biomedical and Environmental Health Research and Education

The goal of this project is to enhance environmental health and biomedical sciences research and education at Jackson State University and around the world by organizing and implementing a pre-symposium workshop in conjunction with the Fifth International Symposium on Recent Advances in Environmental Health Research to be held at the Jackson Marriott Hotel in September 2008. Hence, the implementation of the workshop activities would help to increase awareness and accessibility, and train participants on the use of the National Library of Medicine's online health and medical resources.

Medgar Evers College, CUNY, School of Science, Health & Technology – Brooklyn, New York

Educational Outreach to the College and Community: A Workshop for Disaster Readiness Incorporating NLM On-line Information

The goal of this activity is to develop a workshop program and to hold two workshops that will educate the college and its service community in Brooklyn, N.Y. about disaster readiness. The workshop will include a live Internet presentation and materials from the National Library of Medicine, e.g., MedlinePlus, Disaster Preparation and Recovery. In addition, an activity will utilize NLM resources to illustrate one aspect of disaster management, DNA identification, for high school students. High school students are important for 1) promoting student interest to pursue related science careers and 2) promoting scientific literacy (genetic citizenship) among the population in general.

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Meharry Medical College, School of Medicine – Nashville, Tennessee

Health Literacy Network Development

To continue to build the Health Literacy Network Capacity among four local community churches in Nashville/Davidson County, Tenn. The core activities will include training in the use of electronic management of health literacy and emergency and disaster preparedness information, resources and training meetings with the Nashville Public Library and the Office of Emergency Management.

The purpose of this project is to connect faith-based organizations with public libraries and emergency and preparedness agencies in their community to learn about how to access health information regarding prevention, early detection, and disease management while understanding the progression of chronic diseases. Additionally, the enhanced activity will include identifying response information resources and services that will assist communities in developing strategies for emergency and disaster preparedness.

Morehouse School of Medicine – Atlanta, Georgia

Disaster and Emergency Planning Outreach Workshops at Select Atlanta Churches

This project will present workshops at three Atlanta Churches on disaster and emergency planning. Collectively, these churches serve a population of 1,800 and the project has the potential of reaching at least 500 individuals, including the relatives of those attending workshops. The Morehouse School of Medicine already houses a Regional Coordinating Center for Hurricane Response and believes strongly in preparing people with the information they need to have in the event of a disaster or emergency. Morehouse School of Medicine librarians will demonstrate, through interactive workshops at each church site, the use of selected NLM databases such as WISER, Haz-Map, Household Products, Tox Town, TOXMAP and MedlinePlus. Morehouse School of Medicine librarians will show participants where to go for disaster or emergency information, how to create a disaster or emergency plan and how to share it with relatives not living with them. The workshops will include overview, training and interaction.

Oglala Lakota College, Department of Nursing – Pine Ridge, South Dakota

Taking Charge-Living Wisely: Ek' sabe' yah an unpi, Phase IV

For this project, the Oglala Lakota College Department of Nursing will:

- Get help to design and put up a Web site, including faculty and staff development to keep it current. The Web site will be linked to the National Library of Medicine (NLM) Web site and instructions will be added on how to use MedlinePlus and MEDLINE, the TOXNET databases, and the Native American Web site.

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- Involve students in projects to make teaching DVDs and computer games for teaching children about tooth care, diet and fitness.
- Use the interactive DVD developed for children by the NLM about environmental health.
- Visit Head Start centers.
- Make age-appropriate DVDs for adult students about diet and fitness with some environmental health information.
- Plan to go to two more college centers to offer training for the NLM databases, recruitment for the nursing program, and some teaching about nutrition, fitness and staying well.

Southern University A&M College, School of Nursing, Office of Research – Baton Rouge, Louisiana

Healthy Response to Power Outages

The goal of this project is to promote community-wide healthy behaviors during a power outage to promote management of stress and food and water safety among racial and ethnic minorities.

Objectives:

- Educate community health nursing students on stress management and food and water safety during a power outage.
- Utilize community health nursing students to educate members of their communities on stress management and food and water safety during a power outage.
- Assess the current knowledge of the community regarding stress management and food and water safety during a power outage.
- Educate the community about stress management and food and water safety during a power outage.
- Evaluate knowledge after educational intervention on stress management and food and water safety during a power outage.
- Provide an electronic tool kit utilizing MedlinePlus.gov as a resource.

Texas Southern University, College of Pharmacy and Health Sciences – Houston, Texas

Pilot Project to Train Pharmacy Students about Emergency Preparedness and Outreach to Community Pharmacists

Texas Southern University College of Pharmacy and Health Sciences (TSU COPHS) is located in Houston, Tex. As one of the largest coastal cities in the U.S., Houston experiences hurricane, tropical storm, and flooding threats every year. Education about emergency preparedness is very

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important in Houston. Pharmacists, one of the most trusted professions and conveniently located in the neighborhood, can be great resources to teach residents about medication management preparation for emergency evacuation. Currently, skills in medications management for emergency preparedness have not been emphasized in the pharmacy curriculum at TSU COPHS. There is no didactic lecture or practice site that focuses on this matter. The goal of this project is to provide training to pharmacy students about emergency preparedness and provide outreach to community pharmacists about available electronic resources to health professionals and the public.

University of Puerto Rico, Medical Sciences Campus – San Juan, Puerto Rico

Outreach Project in Environmental Health Information 2007-2008.

Goal of the Project: To reduce the inequality in the access to information related to health among minority groups, communities in disadvantage, and health students. Training in the use of NLM databases and resources (especially in environmental health) will be provided to the following groups:

- 1) Graduate students admitted to the programs in Pharmacy, Nursing, and Basic Sciences (Microbiology, Anatomy, Pharmacology and Toxicology, Biochemistry) and faculties of the Medical Sciences Campus.
- 2) Students of ASPIRA Inc.'s alternative high school (CASA project) in subjects related to health and environment that impact their lives (sexually transmitted diseases and HIV). CASA is a program that serves at risk students and school dropouts.
- 3) Middle and high school teachers, middle and high school students, and school librarians.
- 4) Biology and pre-medical students at the University of Puerto Rico.
- 5) Elderly members in the communities of Carolina, Mayaguez and Ponce related to health issues that affect the golden age community.
- 6) Groups of women who need access to women's health information available through the Internet—health status of women is partly attributable to lack of literacy and information access about women's health. In order to use that information, women should be able to identify, retrieve and understand it. The participants will identify women's health sites and distinguish between consumer health, professional, educational and commercial sites. Also the participants will retrieve information from diverse health sites (MedlinePlus, PubMed, and 4women.gov., among other sites).
- 7) Faculty, librarians and graduate students from private universities located in the metropolitan area of San Juan.

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University of Texas at El Paso – El Paso, Texas

Development and Testing of Communication Card for Emergency and Disaster Preparedness for monolingual Spanish-speaking, individuals with limited literacy

Goal: To increase the effectiveness of emergency and disaster preparedness education for monolingual Spanish-speaking individuals with limited literacy (SIL).

Objectives:

1. Develop a linguistically and culturally tailored CommuniCard for SIL that will be used to transmit the Homeland Security Ready America three-point plan of action for individual community member emergency and disaster preparedness. The Ready America three-point plan of action is: 1) Get a Kit, 2) Make an Emergency Family Plan, and 3) Stay Informed (Homeland Security Ready America, 2006).
2. Develop a video simulation scenario and accompanying evaluation tool that will measure the quantity and accuracy of expected respondent behaviors as an outcome of the CommuniCard for emergency and disaster preparedness.
3. Test the effectiveness of the CommuniCard through the use of a simulation scenario-based evaluation tool among 150 SIL who meet inclusion criteria.