

RECRUITMENT/RETENTION SEARCH RELATIONSHIPS

Environmental Health Information Partnership



Proceedings
March 11-12, 2013

**NATIONAL INSTITUTES OF HEALTH
NATIONAL LIBRARY OF MEDICINE®**

**ENVIRONMENTAL HEALTH
INFORMATION PARTNERSHIP**

PROCEEDINGS

Morgan State University
Baltimore, Maryland
March 11–12, 2013

3Rs: RECRUTIMENT/RETENTION, RESEARCH, and RELATIONSHIPS

Prepared for
Division of Specialized Information Services
National Library of Medicine

Prepared by
Health Communication and Technical Training
Oak Ridge Institute for Science and Education

This document was prepared for the **Division of Specialized Information Services, National Library of Medicine, National Institutes of Health** by the Oak Ridge Institute for Science and Education (ORISE) through an interagency agreement with the U.S. Department of Energy (DOE). ORISE is managed by Oak Ridge Associated Universities under DOE contract number DE-AC05-06OR23100.

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.

CONTENTS

Morgan State University Profile 5

AGENDA 7

ATTENDEES..... 11

Day 1

I. Meeting Opening and Welcome 13

II. Morgan State University Welcome and Overview 13

III. Remarks 13

IV. Beyond the 3Rs: Broadening the Talent Base for STEM 14

V. Discussion and Q&A with Dr. Shirley Malcom 15

VI. Proton Beam Therapy at the Hampton University Proton Therapy Institute 15

VII. Discussion and Q&A with Mr. Keith Gregory..... 16

VIII. Morgan State University Video Presentation 16

IX. STEP-UP and Project STRIDE: How Research Can Influence You 17

X. Discussion and Q&A with Dr. Keith C. Norris 18

XI. Accelerating Research at the UPR Medical Sciences Campus: Impact on Health
Disparities 18

XII. Tour of Morgan State University Campus..... 19

Day 2

XIII. Welcome and Introductions 20

XIV. Overview 3Rs: Recruitment/Retention, Research, and Relations at EnHIP
Schools 20

XV. Promoting Diversity in the Library Professions 21

XVI. Discussion and Q&A with Ms. Cynthia Henderson..... 22

XVII. An Innovation in the Making..... 22

XVIII. EnHIP Outreach Awards Presentations	23
XIX. Community Colleges’ Roles in 3Rs	24
XX. Wrap-up and Future Plans for EnHIP	24
XXI. Closing Remarks	25
APPENDIX A: EnHIP Strategic Plan	27
APPENDIX B: Directory of Guest Speakers	33
APPENDIX C: Biographies	35
APPENDIX D: EnHIP Directory of Current Representatives.....	39
APPENDIX E: EnHIP Executive Committee.....	42
APPENDIX F: Directory of Alternate Representatives.....	43
APPENDIX G: EnHIP Projects 2012-2013.....	47
APPENDIX H: Newest EnHIP Member – Colorado Mountain College Profile.....	51



Morgan State University

Morgan State University is the premier public urban research university in Maryland, known for its excellence in teaching, intensive research, effective public service, and community engagement.

Among its most important strengths is the well-credentialed faculty with 80% of the tenured and tenure-track faculty holding terminal degrees in their respective disciplines. Additionally, Morgan's faculty is racially and ethnically diverse, and the degree of diversity among faculty members differentiates it from most other Maryland campuses. A broad diversity of faculty members and students is welcomed and supported at Morgan because diversity is deemed essential to quality education in a global interdependent society.

Morgan State University is a Carnegie-classified Doctoral/Research University. This classification by the Carnegie Foundation for the Advancement of Teaching is a significant strength because it provides Morgan with a nationally recognized academic platform upon which to enhance its comprehensive array of undergraduate and graduate programs. Consistent with its Carnegie classification, Morgan's academic programs hold specialized accreditations by more national professional organizations than most universities its size.

Morgan accounts for about 58% of electrical engineering, 83% of civil engineering, and 31% of chemistry baccalaureate degrees awarded to African Americans in Maryland. Nationally, Morgan ranks 15th among all campuses in baccalaureates awarded to African Americans. It ranks 3rd in engineering, 9th in the biological sciences, and 15th in the computer and information sciences. Morgan is also a leader in preparing undergraduates to pursue doctoral study. According to the National Science Foundation, between 1997 and 2006 Morgan ranked 12th nationally in the number of its bachelor's degree recipients who subsequently received doctorates in science and engineering fields.

Morgan has an enrollment of 6,579 undergraduate and 1,361 graduate students. Today's students benefit greatly from Morgan's esteemed heritage as an important educational institution. It was founded in 1867 as the Centenary Biblical Institute by the Baltimore Conference of the Methodist Episcopal Church with the mission to train young men in ministry. It broadened its mission to educate men and women as teachers. The school was renamed Morgan College in 1890 in honor of the Reverend Lyttleton Morgan, a civic leader, financial supporter, and the first chairman of its Board of Trustees. The school moved to its present site in 1917. In 1939 the State of Maryland purchased this Historically Black College. In 1975, the state legislature designated Morgan as a university, giving it the authority to offer doctorates. In 1988, the state legislature strengthened Morgan's authority to offer advanced programs and designated the campus as Maryland's public urban university.



**NATIONAL LIBRARY OF MEDICINE
ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP**
Theme: 3Rs: Recruitment/Retention, Research, and Relationships
Morgan State University, Baltimore, Maryland
Earl S. Richardson Library Board Room, 4th Floor, Building 47
March 11-12, 2013
Ann Barbre, PhD, Presiding

AGENDA

- MONDAY—MARCH 11, 2013**
- 8:30 a.m. – 9:00 a.m. Registration and Continental Breakfast
- 9:00 a.m. – 9:10 a.m. **Meeting Opening and Welcome**
Ann Barbre, PhD
Chairman, EnHIP
- 9:10 a.m. – 9:20 a.m. **Morgan State University Welcome and Overview**
David Wilson, EdD
President, Morgan State University
- 9:20 a.m. – 9:30 a.m. **Remarks**
Steven Phillips, MD
Associate Director, SIS
National Library of Medicine
- 9:30 a.m. – 9:40 a.m. **Introductions**
Ann Barbre, PhD
- 9:40 a.m. – 10:15 a.m. **Beyond the 3Rs: Broadening the Talent Base for STEM**
Shirley Malcom, PhD
Head, Education and Human Resources American
Association for the Advancement of Science
- 10:15 a.m. – 10:30 a.m. **Discussion and Q&A**
Facilitated by Bailus Walker, Jr., PhD
EnHIP Senior Scientific Advisor
- 10:30 a.m. – 10:50 a.m. **BREAK**
- 10:50 a.m. – 11:20 a.m. **Proton Beam Therapy at the Hampton University
Proton Therapy Institute**
Keith Gregory, MBA
Executive Director
Hampton University Proton Therapy Institute

**NATIONAL LIBRARY OF MEDICINE
ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP
Morgan State University
Earl S. Richardson Library Board Room, 4th Floor, Building 47**

AGENDA

- 11:20 a.m. – 11:35 a.m. **Discussion and Q&A**
Facilitated by Ann Barbre, PhD, and Bailus Walker, Jr., PhD
- 11:35 a.m. – 12:00 p.m. **EnHIP Group Picture**
Paul Greene, Photographer
Lobby of the Library
Morgan State University
- 12:00 p.m. – 1:30 p.m. **LUNCH**
Morgan State Video
Led by T. Joan Robinson, PhD
Provost, Morgan State University
- 1:30 p.m. – 2:15 p.m. **STEP-UP and Project STRIDE:
How Research Can Influence You**
Keith C. Norris, MD
Vice President for Research and Health Affairs
Charles Drew University of Medicine and Science
- 2:15 p.m. – 2:30 p.m. **Discussion and Q&A**
Facilitated by Ann Barbre, PhD
- 2:30 p.m. – 3:00 p.m. **Accelerating Research at the UPR Medical Science Campus:
Impact on Health Disparities**
Emma Fernandez-Repollet, PhD
Principal Investigator, RCMI Program
University of Puerto Rico Medical Sciences Campus
- 3:00 p.m. – 3:10 p.m. **Discussion and Q&A**
Facilitated by Ann Barbre, PhD, and EnHIP members
- 3:10 p.m. – 3:30 p.m. **BREAK**
- 3:30 p.m. – 5:00 p.m. **Tour of Morgan State University Campus**
Led by T. Joan Robinson, PhD, and staff

CBEIS Building (Center for Built Environment and
Infrastructure Studies)
Clarence M. Mitchell, Jr. School of Engineering
Earl S. Richardson Library
Richard N. Dixon Science Research Center
- 5:00 p.m. **Wrap-up and Day 2 Overview (during campus bus tour)**
Ann Barbre, PhD

**NATIONAL LIBRARY OF MEDICINE
ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP
Morgan State University
Earl S. Richardson Library Board Room, 4th Floor, Building 47**

AGENDA

TUESDAY, MARCH 12, 2013

- 8:45 a.m. – 9:00 a.m. Registration
- 9:00 a.m. – 9:05 a.m. **Welcome and Introductions**
Ann Barbre, PhD
Chairman, EnHIP
- 9:05 a.m. – 9:25 a.m. **Overview 3Rs: Recruitment/Retention, Research, and Relationships at EnHIP Schools**
Ann Barbre, PhD
- 9:25 a.m. – 10:00 a.m. **Discussion and Q&A**
Facilitated by Ann Barbre and EnHIP members
- 10:00 a.m. – 10:20 a.m. **Promoting Diversity in the Library Profession**
Cynthia Henderson, MILS, AHIP
Executive Director, Louis Stokes Health Sciences Library
Howard University
- 10:20 a.m. – 10:30 a.m. **Discussion and Q&A**
Facilitated by Ann Barbre, PhD, and Robert Copeland, Jr., PhD
- 10:30 a.m. – 10:45 a.m. **EnHIP Outreach Awards Presentations**
Patricia Matthews-Juarez, PhD, Meharry Medical College
João Ferreira-Pinto, PhD, University of Texas at El Paso
- 10:45 a.m. – 11:00 a.m. BREAK
- 11:00 a.m. – 11:15 a.m. **Continuation of EnHIP Outreach Awards Presentations**
T. Joan Robinson, PhD, Morgan State University
- 11:15 a.m. – 11:45 a.m. **Community Colleges' Roles in 3Rs**
Marnie Carroll, MS
Colorado Mountain College
- 11:45 a.m. – 11:50 a.m. **Wrap-up**
Ann Barbre, PhD
- 11:50 a.m. – 12:00 p.m. **Closing Remarks**
Ann Barbre, PhD

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

**PROCEEDINGS OF THE ENVIRONMENTAL HEALTH
INFORMATON PARTNERSHIP MEETING
March 11-12, 2013**

The Environmental Health Information Partnership (EnHIP) convened on March 11, 2013, at 8:30 a.m. in the Earl S. Richardson Library Board Room, Building 47, Morgan State University, Baltimore, Maryland. EnHIP Chairman Dr. Ann Barbre, Professor and Associate Dean of Pharmacy, Xavier University of Louisiana, presided. The theme of the meeting was “3Rs: Recruitment/ Retention, Research, and Relationships”. Representatives convened again March 12, 2013, at 8:30 a.m. in the Board Room until adjournment at 1:00 p.m.

ATTENDEES

Representatives from Participating Institutions

Dr. Ann Barbre, Xavier University of Louisiana
Ms. Marnie Carroll, Colorado Mountain College
Dr. Robert Copeland, Jr., Howard University
Dr. Sandra Harris-Hooker, Morehouse School of Medicine
Dr. Patricia Matthews-Juarez, Meharry Medical College
Ms. Barbara Klein, Diné College
Dr. Arlene Montgomery, Hampton University
Dr. Milton Morris, Benedict College
Dr. T. Joan Robinson, Morgan State University
Dr. Michael Thompson, Florida A&M University
Dr. Doris Withers, Medgar Evers College, City University of New York

Alternate Representatives

Dr. Gail Orum-Alexander, Charles R. Drew University of Medicine and Science
Dr. José Conde, University of Puerto Rico
Dr. Cheryl Davis, Tuskegee University
Ms. Laura Dunn, Oglala Lakota College
Dr. João Ferreira-Pinto, The University of Texas at El Paso
Dr. Barbara Graham, Jackson State University
Dr. Michael Sullivan, California State University, Northridge
Dr. Cheryl Taylor, Southern University at Baton Rouge

Consultants to the EnHIP

Mr. John Scott, Center for Public Service Communications
Dr. Bailus Walker, Jr., Howard University College of Medicine (EnHIP Senior Scientific Advisor)

Speakers

Ms. Marnie Carroll, Colorado Mountain College
Dr. Emma Fernández-Repollet, University of Puerto Rico
Mr. Keith Gregory, Hampton University Proton Therapy Institute
Ms. Cynthia Henderson, Howard University
Dr. Melissa Littlefield, Morgan State University
Dr. Shirley Malcom, American Association for the Advancement of Science
Dr. Victor McCrary, Morgan State University
Dr. Keith Norris, Charles R. Drew University of Medicine and Science
Dr. Steven Phillips, Director, Division of Specialized Information Services, Associate Director, NLM
Dr. David Wilson, President, Morgan State University

Invited Guests

Dr. Clara Adams, Morgan State University
Dr. Mary Anne Akers, Dean, Morgan State University
Ms. Simone Barrett, Morgan State University
Dr. Antoinette Coleman, Morgan State University
Dr. Eugene DeLoatch, Morgan State University
Dr. Mark Garrison, Morgan State University
Mr. Paul Greene, Morgan State University
Dr. Michelle Hammond, Morgan State University
Dr. Ann McPhatter, Morgan State University
Dr. M'bare N'Gom, Morgan State University
Dr. Kim Sydnor, Morgan State University
Dr. Maurice Taylor, Morgan State University
Dr. Otis Thomas, Morgan State University
Ms. Joan Williams, Morgan State University

NLM Staff

Ms. Betsy Humphreys, Deputy Director, NLM
Dr. Steven Phillips, Director, Division of Specialized Information Services, Associate Director, NLM
Ms. Gale Dutcher, Division of Specialized Information Services, NLM
Ms. Cynthia Gaines, Division of Specialized Information Services, NLM
Dr. Michael Huerta, Office of Health Information Programs Development, NLM
Ms. Janice Kelly, Division of Specialized Information Services, NLM

ORISE Staff

Ms. Romona Carrasco, Oak Ridge Institute for Science and Education
Ms. Linda Lange, Oak Ridge Institute for Science and Education

I. Meeting Opening and Welcome

EnHIP Chairman Dr. Ann Barbre, Professor and Associate Dean of Pharmacy, Xavier University of Louisiana, opened the meeting on March 11, 2013, at 8:30 a.m. in the Earl S. Richardson Library Board Room, Building 47, Morgan State University, Baltimore, Maryland. She welcomed representatives and invited guests and asked all attendees to introduce themselves. She thanked Dr. David Wilson, President, Morgan State University, for the hospitality and opportunity to convene at Morgan.

II. Morgan State University Welcome and Overview

Dr. David Wilson, President, Morgan State University, began his remarks by expressing appreciation for the leadership of EnHIP representative Dr. T. Joan Robinson, Provost and Vice President of Academic Affairs, Morgan State University.

Dr. Wilson stated that Morgan recently completed the development of its strategic plan for future growth. As outlined in the strategic plan, “Growing the Future, Leading the World”, the leadership at Morgan will pursue five priorities: (1) enhance student success at the university, (2) enhance its status as a doctoral research university, (3) improve and maintain its infrastructure and operational processes, (4) grow its resources, and (5) engage with the community.

To grow its resources, Morgan is reaching the governor’s office, the state legislature, corporations, foundations, and alumni. Morgan is engaging with the community, particularly northeast Baltimore, to focus on public health and environmental issues through the Morgan Community Mile initiative. Additionally, the initiative will address small business development and home ownership.

As part of a \$220 million building program, the university has broken ground on a \$70 million building for the School of Business; it is expected to be ready for occupancy in about two years.

III. Remarks

Dr. Steven Phillips, Director, Division of Specialized Information Services, Associate Director of National Library of Medicine, briefed the Partnership about sequestration and related spending cuts. NLM programs are being evaluated for effectiveness. He recognized the contributions EnHIP has made over the years, indicating the Partnership has created a template for educating young students. He emphasized the commitment and support of NLM to the Partnership’s activities and asked members to give direction as EnHIP moves forward with outreach into communities and education of young people in the health sciences. He wants these efforts to continue so young people feel encouraged to enter the health sciences, conduct research, serve their communities, and make the world a better place.

IV. Beyond the 3Rs: Broadening the Talent Base for STEM

Dr. Barbre introduced the keynote speaker, Dr. Shirley Malcom, Head, Directorate for Education and Human Resources Programs, American Association for the Advancement of Science (AAAS). Dr. Malcom is a Fellow of the AAAS and the American Academy of Arts and Sciences.

She began her presentation on the 3Rs by suggesting a fourth R—relevance. To show how relevance is important to students and faculty, Dr. Malcom mentioned the book *The Immortal Life of Henrietta Lacks*, written by Rebecca Skloot. (Henrietta Lacks, an African-American woman living in Baltimore, was treated at Johns Hopkins University for cervical cancer. A doctor there discovered her cells could grow indefinitely, thus creating a significant contribution to medical research.) Dr. Malcom said Lacks family members live in Baltimore, and a great-granddaughter is a Morgan student, and a great-grandson is a Morgan graduate.

Dr. Malcom referenced the work of Dr. Robert Solow, a Nobel Prize-winning economist. Dr. Solow emphasized that the economic development and growth of the United States is based heavily on the technological growth of the nation. Knowledge production and knowledge sharing are as important as natural resources and capital in terms of the national economy. Research and education must be areas of constant investment.

For students to be sufficiently prepared for college, Dr. Malcom suggested they need a firm foundation in math, science, communications, and computational skills. Recruiters look for these skills; however, among many minority students, these skills are not as firmly established, as they should be. She stated that educational institutions need a rigorous program to retain students and fill in gaps in their backgrounds so they have more tools to succeed. Recent research shows how important it is to incorporate research early into the academic career as a way to keep students engaged. Research projects develop skills and allow students to enjoy success. This success bolsters students' commitment to work hard and stay in the program.

Dr. Malcom put aside the misconception of engineering and the sciences as solitary professions. Instead, they are collaborative fields, where students have mentors and other supporters. Finding collaborators and building community are critical components of success because relationships support students as they strive to complete their education and move forward to determine their place in the world.

In her closing remarks, Dr. Malcom encouraged representatives to act upon the fourth R—relevance. When students see the relevance, they will be motivated to solve problems and work hard to improve their communities. She predicted that problems in the twenty-first century will be interdisciplinary and global. People will use technology and manage large amounts of data. They have to turn data into information and connect information in ways that can make a difference in people's lives.

V. Discussion and Q&A with Dr. Shirley Malcom

Dr. Malcom's presentation was well received and led to an extended question-and-answer session. Dr. Steven Phillips emphasized the need for a common information technology system for total interoperability. Dr. Malcom sees potential in smartphones because they are becoming the most common communication and educational tool. She recognized Dr. Phillips' assertion about existing technology barriers and carried the discussion further by calling attention to the human nature elements, such as loss of control and territory, connected to the technology. Earlier in her presentation, Dr. Malcom told of an incident in Minneapolis. A snowstorm had left many roads impassable. Firefighters responded to a call, but did not have information about which streets had been cleared. Lives were lost because the communication system did not connect the firefighters with the street crews. She referenced this incident and indicated that barriers can be the human elements underneath the technical ones.

Dr. Cheryl Taylor, Director and Associate Professor of Nursing Research, Southern University at Baton Rouge, described how she and other faculty members have looked for creative ways to retain students during this time of budget constraints. As an example, she said students who could not be accommodated in the nursing program were advised to consider other related fields, such as therapeutic recreation or rehabilitation counseling. Dr. Malcom said an economic crisis provides an opportunity to rethink operations and make changes. Dr. Patricia Matthews-Juarez, Professor and Associate Vice President, Faculty Affairs and Development, Meharry Medical College, spoke in agreement with Dr. Malcom's belief in collaboration and community involvement. She gave examples of interdisciplinary teams at Meharry engaging in data translation to present information for the community to use. She also referenced use of Public Participation Geographic Information Systems (PPGIS) to provide assistance during Superstorm Sandy. Dr. Malcom credited plain language writing for bridging the communication gap between health practitioners and people with low-level reading skills.

Dr. Doris Withers, Vice President for Assessment Planning and Accountability, Medgar Evers College, CUNY, asked for information about research grants to reinforce the 3Rs and relevance, the fourth R added by Dr. Malcom. Dr. Malcom indicated opportunities are everywhere when smartphones and applications are utilized creatively. Mr. John Scott, President, Center for Public Service Communications, called for more interdisciplinary assignments throughout university settings so science and technology are presented in ways that capture readers' interests and trigger motivation. Dr. Malcom responded to his remarks and summarized the points made in all comments by saying that educational institutions need to embrace new tools and strategies in order to address the important issues that face student populations.

VI. Proton Beam Therapy at the Hampton University Proton Therapy Institute, Hampton, Virginia

Mr. Keith Gregory, Executive Director, Hampton University Proton Therapy Institute, discussed prostate cancer, a form of cancer with a higher rate of incidence among African Americans and

Hispanics. Prostate cancer is one of the most common cancers in the United States. According to Mr. Gregory, the Hampton Roads area leads the nation in deaths from prostate cancer.

Community awareness campaigns for early testing focus on erasing the stigma associated with prostate cancer. Early detection is important for successful treatment outcomes. Dr. Gregory serves on the board of the Hampton Roads Prostate Health Forum; it sponsors educational and screening events. The Institute has an educational outreach program with area nursing and radiation schools, as well as other educational affiliations.

Mr. Gregory gave the history of proton therapy, a treatment that started in the 1950s. The first medical facility dedicated to proton therapy opened decades later. Eleven centers now operate in the United States. The Hampton University Proton Therapy Institute opened in 2010 and has the capacity to treat 200 patients a day. More than 400 patients have received treatment for prostate, head and neck, breast, pediatric, pancreatic, and other cancers. The staff has more than 100 years combined experience in proton therapy treatment.

The Institute receives federal funding for research projects related to improving technology and treatment. Research projects with medical schools and medical facilities are also under way as the Institute focuses on expanding the types of cancer that can be treated with proton therapy. Outreach programs in Hampton Roads include educational activities, screenings, and career events for students in the fields of nursing, communications, and business.

VII. Discussion and Q&A with Mr. Keith Gregory

In the discussion that followed Mr. Gregory's presentation, members asked about the types and stages of cancer treated by proton therapy, cancer screenings, and costs associated with treatment. Dr. Bailus Walker, Jr., EnHIP Senior Scientific Advisor, Howard University College of Medicine, asked if the Institute is at a disadvantage because it is not part of a medical school. Mr. Gregory said it was at a disadvantage, and at some point, alliances with medical schools may be made. He mentioned that proton therapy centers in general have difficulty getting recognition in a community. They are seen as competitors to many of the other options patients may have.

VIII. Morgan State University Video Presentation

Dr. T. Joan Robinson, Provost and Vice President of Academic Affairs, Morgan State University, served as host of the luncheon provided by Morgan. She asked faculty and staff who joined the meeting as invited luncheon guests to introduce themselves. Dr. Steven Phillips thanked Dr. Robinson for the hospitality extended to EnHIP representatives.

Dr. Robinson introduced a video presentation about Morgan State University and its E-minds Health Program, a signature project funded by NLM. This project's objective is to reduce health disparities for African Americans.

Dr. Robinson said collaboration allowed the program to grow and become more comprehensive. E-minds Health was the springboard for projects to follow, including the iHealth kiosks. The kiosks offer portals to health information and use NLM databases to help students, faculty, and the community become empowered to make informed health decisions. The E-minds Health Program, one that heavily involved community-based participatory research, is one way Morgan is focusing on public health and environmental issues as outlined in the Morgan Community Mile initiative.

Dr. Melissa Littlefield, Associate Professor, Department of Social Work, Morgan State University, said the E-minds Health project has been very successful and continues to attract users.

IX. STEP-UP and Project STRIDE: How Research Can Influence You

In his opening remarks, Dr. Keith C. Norris, Vice President for Research and Health Affairs, Charles R. Drew University of Medicine and Science, highlighted the strengths of diversity in the scientific community. Diversity offers unique perspectives, approaches, and understandings, thus adding value. Minorities are missing from many scientific and medical fields. The National Institutes of Health (NIH) recognized this compelling need to promote diversity in the biomedical research community and is developing consortia of institutions. The new initiative, named Building Infrastructure Leading to Diversity (BUILD), focuses on recruiting and retaining scholars from diverse backgrounds underrepresented in biomedical and behavioral research. The initiative is to involve primarily undergraduate students; they are to be supported and placed in enriched research environments through doctoral and post-doctoral training.

Dr. Norris shifted the focus of his presentation to mentoring high school students. In his interactions with this age group, he demonstrates to students how research can help make the world a better place. He encourages their interests in careers aligned with research. He advocates starting early—as early as kindergarten or prekindergarten—to expose them to scientific careers. He gave four reasons to support high school student biomedical research: (1) provide exposure to science careers, (2) enhance college or graduate school readiness and application, (3) enhance confidence, and (4) experience a structured approach to inquiry and how to work with a team.

The Summer Training Education Program for Underrepresented Persons (STEP-UP) at Charles R. Drew University of Medicine and Science began in 1995. STEP-UP outcomes show that 55% of the participants (classes 2001–2010, about 500 students) continued their education at a college or university in the biomedical/health sciences or other STEM fields (science, technology, engineering, math); 11% were in graduate health sciences; 9% were in medical school; and 4% were in graduate nonsciences.

Project STRIDE, funded by the Doris Duke Foundation, is a clinical research summer experience for high school students. The students work at the Charles R. Drew University Clinical Research Center and in the community. The distance learning program through NLM has expanded over the last few years, and now it uses webinars and Web-based formats for presentations on science careers, NLM resources, and environmental issues.

The National High School Student Summer Research Program places students with research mentors for about eight weeks and then involves them in a two-day symposium at NIH for presentations and workshops. The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) STEP-UP program involves several universities and reflects a significant percentage of minorities.

X. Discussion and Q&A with Dr. Keith C. Norris

Following his presentation, Dr. Norris answered questions about the application process, types of biomedical experiences offered to students, and ways to develop a cadre of new scientists. Dr. Robert Copeland, Jr., Associate Professor, Department of Pharmacology, Howard University College of Medicine, asked Dr. Norris to share his thoughts on how to encourage more African-American males to enter medical school and graduate-level science programs. Dr. Norris acknowledged the struggle and indicated that over the past five or six years, Charles R. Drew University of Medicine and Science has had two classes with no African-American males in medical school. He revisited his early remarks emphasizing the importance of getting these students engaged, excited, and supported at an early age. Once graduated, they need to mentor others to pursue medical or health-related professions.

XI. Accelerating Research at the UPR Medical Sciences Campus: Impact on Health Disparities

Dr. Emma Fernández-Repollet, Professor of Pharmacology, University of Puerto Rico (UPR), is the Principal Investigator, Research Centers in Minority Institutions (RCMI) Program. She outlined elements on the research agenda for her institution. They are as follows: infrastructure, biomedical workforce, research and discovery, collaboration and partnerships, and funding and incentives.

Her presentation emphasized programs affiliated with Research Centers in Minority Institutions (RCMI). She stated the RCMI program develops and strengthens research infrastructure for faculty and students. Eighteen RCMI centers are located in ten states, the District of Columbia, and Puerto Rico.

Dr. Fernández-Repollet reviewed the work of several programs at the University of Puerto Rico, including the Caribbean Primate Center, the Institute of Neurobiology, and the Center for Genomics in Health Disparities and Rare Diseases. The Puerto Rico Cancer Center received \$175 million for a multifaceted cancer treatment and research program. Funding was granted to the University of Puerto Rico for facilities to promote research. Its library provides access to NLM databases; seminars and tutorials, and special events support active use of the databases.

Dr. Fernández-Repollet explained several initiatives to attract students into the health sciences field. The Biomedical Research Education Program of Puerto Rico is a one-week summer internship for middle school students in laboratories at the Medical Sciences Campus. She highlighted the interdisciplinary research at the Laboratory of Fear Learning as an example of the program's activities. Students aspire to become neuroscientists after their experiences in this lab.

The Hispanics in Research Capability Center establishes an investigative environment and culture. Faculty and students at the Schools of Health Professions and Medicine focus on health disparities as related to asthma, diabetes, stroke, and autism. As an example of a multidisciplinary approach, Dr. Fernández-Repollet discussed research programs addressing HIV transmission, preterm births, environmental contamination, and cancer.

She emphasized collaborations and partnerships are needed more than ever because problems are complicated and require several institutions or investigators to find solutions. Effective strategies can develop increased representation of individuals from diverse backgrounds so they can contribute to the reduction of health disparities.

XII. Tour of Morgan State University

Representatives began a campus tour on the main floor of the Earl S. Richardson Library, the meeting site. The Morgan Library iHealth kiosk delivers information from NIH/NLM online resources and other resources, such as the American Heart Association. Users receive information about issues impacting minority communities and, more importantly, ways to combat those pervasive health issues. An iPad built into the kiosk bookmarks key sites that support this mission.

The representatives boarded a bus and went to the Center for Built Environment and Infrastructure. Dr. Mary Anne Akers, Dean for the School of Architecture and Planning, took the group to various research laboratories that feature state-of-the-art equipment, such as Morgan's wind tunnel and wave machine. The earthquake simulation lab can be used to test structures in extreme conditions. She discussed the environmentally friendly features of the building and its impact on health and well-being.

The Center of Excellence for Tactical and Advanced Communications Technology (Mitchell Engineering Building) was the next stop on the tour, followed by the Advanced Visualization Laboratory (Schaefer Engineering Building). Research conducted at these facilities supports the work of the Department of Defense, Department of Energy, and NASA.

From the engineering complex, the group went to the Richard N. Dixon Science Research Center. In the Physiology Laboratory, Dr. Michael Koban discussed a rat model for chronic sleep restriction, which is used in a study on increased appetite and related obesity. Dr. Gloria Hoffman at the Neuroscience Laboratory described studies to inform a larger project about the interactions of weight control with reproductive function. The group also toured the Nanoscience and Magneto-Optics Laboratory and Organic Chemistry Laboratory.

Once representatives returned to the Earl S. Richardson Library, Dr. Barbre said everyone benefited from the stimulating presentations given by the guest speakers. She gave an overview of the next day's events. The meeting was adjourned for the day at 5:45 p.m.

Day 2

XIII. Welcome and Introductions

EnHIP reconvened March 12, 2013, at 8:30 a.m. in the Earl S. Richardson Library Board Room, Building 47, Morgan State University, Baltimore, Maryland. EnHIP Chairman Dr. Ann Barbre, Professor and Associate Dean of Pharmacy, Xavier University of Louisiana, presided. She welcomed representatives and invited guests and asked new attendees to introduce themselves. Dr. Barbre thanked everyone for their participation and enthusiasm during the presentations and campus tour held on Day 1. She was pleased with the productive networking occurring among EnHIP members, NLM staff, guest speakers, and Morgan faculty and executive staff. She indicated that the presentations of Day 2 would also be of high interest.

XIV. Overview 3Rs: Recruitment/Retention, Research, and Relationships at EnHIP Schools

Dr. Barbre gave an overview of activities related to the 3Rs at Xavier University of Louisiana and asked representatives to describe programs at their institutions. Recalling the 2012 EnHIP meeting commitment to form stronger relationships, she was pleased to say that bonds in the Partnership grew stronger in the past year.

At Xavier, recruitment for potential students begins as early as eighth grade. The Summer Science Academy brings students to the campus for enhanced math, biology, and chemistry classes. The Louisiana Engineering Advancement Program, English tutorial seminars, and the Exploring Computer Science Program prepare students for college entrance exams and their subsequent collegiate coursework.

The STEM Scholars Summer Bridge Program is designed for incoming freshmen who are majoring in math, computer sciences, physics, and engineering. The PharmPrep Program focuses on freshmen studying for careers in pharmacy. Participants use information available in the NLM databases.

The Student Success Academy aims at improving retention of students. Freshmen enrolled in remedial courses receive student mentors to help them increase their academic performance. Building Lifelong Academic Skills Training is an intervention program for continuing students, designed to promote academic success. The Supplemental Instruction Program includes one-on-one counseling to help students develop time management and study skills.

A commitment to research and scholarship ensures Xavier accomplishes its mission: to create, develop, and disseminate new knowledge for public use and to enhance the education of students. All research projects have heavy student involvement because it is mandatory for all research grants at Xavier to include students. Xavier's Center for Undergraduate Research helps match students' interests with projects and also provides funding for student projects. A Festival of Scholars generates interest and engagement in research projects.

Dr. Milton Morris, Director, Department of Environmental Health Sciences, Benedict College, described the Freshmen Institute, a mentoring and information resource at his institution. Dr. Gail Orum-Alexander, Dean, College of Science and Health, Charles R. Drew University of Medicine and Science, described an outreach program to high school seniors that includes financial aid workshops and preparation for college entrance exams. Dr. Doris Withers, Vice President for Assessment Planning and Accountability, Medgar Evers College, CUNY, described several programs, but emphasized these initiatives need frequent updates to keep pace with changing needs.

Mr. John Scott, President, Center for Public Service Communications, emphasized the successes of massive open online courses, citing these resources engage people without requiring excessive expenditures. Ms. Betsy Humphreys, Deputy Director, NLM, addressed Mr. Scott's suggestion and encouraged representatives to work together on such a program. Dr. Steven Phillips, Director, Division of Specialized Information Services, Associate Director of NLM, asked representatives to make a list of specific enhancements NLM should consider to enable NLM to meet their needs in the future.

Ms. Marnie Carroll, Grants Director, Colorado Mountain College, mentioned the challenges facing students attending two-year community colleges, particularly those students who have had little past association with higher education. Dr. T. Joan Robinson, Provost and Vice President of Academic Affairs, Morgan State University, highlighted common obstacles to completing undergraduate degrees in four years.

XV. Promoting Diversity in the Library Profession

Ms. Cynthia Henderson, Executive Director, Louis Stokes Health Sciences Library, Howard University, gave an overview of library schools accredited by the American Library Association (ALA). At this time, 52 library programs across the country have the credential. North Carolina Central University, an institution designated as a Historically Black College and University (HBCU), holds the ALA accreditation.

The Spectrum Scholarships, sponsored by ALA, provides up to 50 students from racial and ethnic underrepresented groups with \$5,000 awards. The Century Scholarship is for students who want to provide library services for people with visual or physical disabilities. The Medical Library Association scholarship for minority students offers \$5,000 awards.

Ms. Henderson defines librarianship as providing information to individuals in the format they want, when and where they need it, wherever they are. Library schools place a premium on academic librarianship; 34 of the 52 library schools have a program concentration in this area. Ms. Henderson observes a growth in cultural heritage information management. It is designed to address the market needs created by the convergence of practices in libraries, archives, and museums. Catholic University of America received a grant for scholarships to support 17 students enrolled in this concentration. Thirty-three library programs offer a concentration in digital libraries, and 22

programs operate 100% online. Thirty-five percent of librarians work in elementary and secondary schools. The median annual pay for a librarian is \$54,000.

Forging leadership to guide the next generation of librarians is an important initiative of the HBCU Library Alliance, a professional organization formed in 2002. The organization also seeks to preserve the photographic collections of HBCUs and preserve the history in accessible databases. Ms. Henderson asked representatives to help expand the visibility of the HBCU Library Alliance by encouraging librarians at their institutions to join.

XVI. Discussion and Q&A with Ms. Cynthia Henderson

Dr. Bailus Walker, Jr., EnHIP Senior Scientific Advisor, Howard University College of Medicine, asked about subspecialties in the library field. Ms. Gale Dutcher, Deputy Associate Director, SIS, NLM, said many library schools support specializations, most commonly in the areas of science, technology, social science, government, and government documents. The Medical Library Association has certificate programs in consumer health and disaster health information.

Dr. Doris Withers stated many students are unaware of essential databases and do not know how to use online journals. Ms. Betsy Humphreys noted many college students need to learn about evaluation and quality of information. With the availability of vast data, people need to learn how to find information and how to use it. Dr. Robert Copeland, Jr., Associate Professor, Department of Pharmacology, Howard University College of Medicine, indicated faculty should interact with students more to emphasize accurate interpretation of data. He expressed disdain for graduate students who list Google as a reference in their master's thesis.

Ms. Dutcher closed the discussion by noting that public libraries are actively used, and librarians continue to guide people to books and resources they want. She complimented Ms. Henderson on her excellent presentation.

XVII. An Innovation in the Making

Dr. Victor R. McCrary, Vice President, Research and Economic Development, Morgan State University, said Morgan is Maryland's premier urban research university. It is achieving strategic goals by taking an interdisciplinary approach and engaging actively in the community. This engagement serves as a catalyst for transformation. As an example, Dr. McCrary mentioned research efforts tied to local economic development.

Dr. McCrary explained the three dimensions of the Office of Research and Economic Development: pre-award, post-award and intellectual property transfer. The first dimension, or the idea generation, involves external sponsor marketing, cost analysis, proposal and program preparation. The second dimension is grants and contract administration. The third dimension is licensing, commercialization, and industry relations. Ambassadors from all Morgan colleges and schools will come together as a research council to develop policies for research and interdisciplinary

funding opportunities. They will communicate the latest research efforts and develop incentives for increasing faculty participation. To begin, a research colloquium is planned in the coming weeks to spark creative thinking about research.

Morgan is one of five academic research institutions in the Maryland Innovation Initiative, a program developed by Governor Martin O'Malley for stimulating economic development and high-tech jobs. It will help transfer the state's educational and research assets into the commercial sector where they can be developed into products and services.

Dr. McCrary recognized the excellence and many achievements of EnHIP. He seeks to expand EnHIP's engagement with Morgan in connection with the Morgan Community Mile, a public health initiative. Morgan students at the Estuarine Research Center are studying water quality and its effect on public health.

XVIII. EnHIP Outreach Awards Presentations

The mission of EnHIP is to enhance the capacity of minority-serving academic institutions to reduce health disparities through the access, use, and delivery of environmental health information on their campuses and in their communities. To further this aim, NLM provides funding for training and other outreach activities at member institutions. Seven institutions were awarded the EnHIP Outreach Awards. For summaries of all of the 2012–2013 awards, see Appendix G.

Meharry Medical College, Nashville, Tennessee

Engage in Community, Public, and Professional Services in the Use of Electronic Databases of the National Library of Medicine

Presented by Dr. Patricia Matthews-Juarez

Over the last eight years, grants totaling \$60,000 have been received and used on a range of projects including the Health Literacy Network, Faith Health Network, Regional Symposium of Disaster, and Community Disaster Alliance of Nashville. More than 15,000 members of the community benefited from efforts affiliated with the EnHIP Outreach Awards. The 12th Biennial Symposium on Minorities, the Medically Underserved, and Health Equity, held in Houston, Texas, in 2012, focused on sharing best practices and advocating for improvements in the health system. Efforts are under way to examine the role of the public health exposome model in health disparities research. The public health exposome domain includes the natural environment, built environment, social environment, and policy environment. Community partners, scientists, and educators are collaborating to review data as it relates to environmentally influenced health issues. As an example, preliminary analysis shows a relationship between heat, air pollution (fine particulate matter), and mortality from heart disease.

The University of Texas at El Paso, El Paso, Texas

Home Environment Determinants of Fall-Related Injuries Among Elderly Hispanics

Presented by Dr. João Ferreira-Pinto

In the United States, 13% of the population is 65 or older; 75% of fatal falls occur in this population group. Fall-related injury costs to Medicare range from \$9,113 to \$13,507 per occurrence. By 2020, the projected annual cost to Medicare related to fall injuries is projected to be \$54.9 billion. A multidisciplinary team was formed to study falls in the elderly Hispanic population in El Paso, Texas. This exploratory study included 30 interviews and home visits. The study identified risk factors, such as likelihood of poor health, poverty, and lack of insurance. It identified environmental risks, such as crowded living conditions and poor enforcement of structural building codes. It determined cultural factors, such as lack of English language skills. Findings were accepted for publication and presented at national conferences. The project received additional grant funding to develop a model for intervention so risks are reduced in the elderly Hispanic population.

XIX. Community Colleges' Roles in 3Rs

Ms. Marnie Carroll, Grants Director, Colorado Mountain College, said 11 campuses serve a mostly Hispanic/Latino population with 89% of students living in rural areas. The majority are single parents with a very low income. To address their needs, Colorado Mountain College sponsors a set of recruitment and retention workshops. Students who complete two years of study at a community college deal with a second transition when they move to another college to complete a four-year degree. Overwhelming student loans often sidetrack students. However, community colleges are often affordable, and thus they are the only opportunity for higher education for many people.

Colorado Mountain College is approved to offer bachelor's degrees in business administration, sustainability, and nursing. It received a \$559,000 grant from the Colorado Health Foundation for the nursing program. The college also opened the Walter Isaacson School of New Media. This program and the nursing program address the immediate needs of employers in the state. Future plans include an interdisciplinary teacher education degree.

Ms. Carroll, who was previously affiliated with Diné College, expressed the need for more apprenticeships for students so they are better prepared to work in their future professions. She spoke of the importance of mentors, relating her personal experience as a former student at a community college. In addressing retention issues, she noted a community connection motivates students to stay in school. She challenged representatives to find positions for graduate and postdoctoral students so they gain cultural experiences and receive financial compensation. These students can provide technical expertise, publish research appropriately, provide research lab capabilities, and mentor other students.

XX. Wrap-up and Future Plans for EnHIP

Dr. Barbre inquired about representatives' priorities and areas of interest. She asked representatives to assist in the selection of meeting themes and speakers. She encouraged all members to engage in discussions about the direction of EnHIP in the immediate future and emphasized the importance of responding to Dr. Steven Phillips' request to inform NLM about effective use of its resources.

XXI. Closing Remarks

Dr. Barbre thanked everyone for their participation and attendance at the EnHIP meeting. Dr. Shirley Malcom set the tone for the meeting and encouraged everyone to seek relevance and new ways to engage students. Dr. Keith C. Norris focused on retention and informed representatives about STEP-UP and Project STRIDE. Mr. Keith Gregory discussed research in his presentation on the Hampton University Proton Therapy Institute. Dr. Emma Fernández-Repollet highlighted research at the University of Puerto Rico Medical Science Campus and outlined several initiatives to attract students to the field of health sciences.

Dr. Barbre expressed her appreciation to Ms. Cynthia Henderson, who offered a wealth of information about diversity and working relationships in the library profession. She thanked Ms. Marnie Carroll for her insightful presentation about the unique challenges of recruiting and retaining community college students. All speakers gave interesting presentations and made the meeting productive.

Dr. Barbre expressed her gratitude to Dr. T. Joan Robinson and the faculty and staff of Morgan State University and emphasized how much representatives learned during the tour of the campus. The presentations made by Dr. David Wilson and Dr. Victor R. McCrary gave everyone a better understanding of Morgan's strategic plan, its growth as a research institution, and its engagement in the community.

Also, she thanked Cynthia Gaines, Project Officer, SIS, NLM, for her efforts.

Dr. Barbre wished everyone a safe and pleasant journey home. The meeting was adjourned at 1 p.m.

APPENDIX A

Environmental Health Information Partnership Meeting—March 11-12, 2013

National Library of Medicine
Division of Specialized Information Services
Environmental Health Information Partnership
Charting a Course for the 21st Century
Environmental Health Information Partnership Strategic Plan

INTRODUCTION

Environmental Health Information Partnership

The Environmental Health Information Partnership (EnHIP) was established by the National Library of Medicine (NLM) in 1991 as the Toxicology Information Outreach Panel (TIOP). This group was started at a time in which the issue of racial and ethnic health disparities in a myriad of conditions had been elevated into sharp visibility. There was also concern about disparities in potential and real exposure to environmental toxicants and their contribution to disparities in morbidity and mortality. At the same time there was an increase in the complex literature of toxicological science. The Panel then evolved into the Environmental Health Information Outreach Program and subsequently refined into the current state, the Environmental Information Outreach Partnership. This Partnership reflects a broader focus on the multiple dimensions of environmental health, the environmental health sciences, and health disparities. The objective is to assist in addressing disparities among academic institutions in access to information technology and related pedagogical and research resources.

In this context, it was increasingly recognized that modern instruction, research, and service to communities, students, and professions—the core mission of academic institutions—were nearly impossible without computers and related technologies. Indeed, evidence abounds that the addition of computer science and bioinformatics to the arsenal of environmental health, biomedical, social, behavioral, and clinical research holds enormous promise and continues to stir considerable excitement among researchers, academicians, practitioners, and the entire health services community.

These were among the developments that prompted the NLM to initiate a series of programs and services specifically designed to expand and strengthen its partnership with Minority-Serving Institutions (MSIs) and, in the process, enhance the efforts of these schools to increase the number of racial and ethnic minorities in the environmental health, biomedical research, and health care workforce. The NLM was also interested in ensuring that, through planned outreach efforts, both lay and professional groups were aware of, had ready access to, and utilized the NLM rapidly expanding collections of medical and health information.

Working together, the NLM and the participating colleges and universities continue to apply themselves to these efforts as the 21st century becomes the digital era, creating a better and a more innovative and collaborative future.

APPENDIX A

Environmental Health Information Partnership Meeting—March 11-12, 2013

Rationale and Process

The Environmental Health Information Partnership has made substantial progress during the past decade in achieving its initial objectives. A prominent feature of this progress has been information sharing, including regular NLM staff reports on the continuous expansion of the Library databases and programs, as well as presentations from other National Institutes of Health (NIH) Institutes and Centers on development in other areas of the NIH, which supports research and discovery that ultimately improves the methods and outcomes of public health services and personal health care. These discussions have added to the substrate of information which academicians need to bring to full fruition the core functions of academic institutions.

The challenge for the Partnership is not only to maintain its role as a progressive component of NLM outreach efforts, but to advance to even higher levels of productivity consistent with the NLM Long Range Plan (2006–2016) (*Charting a Course for the 21st Century: NLMs Long Range Plan 2006–2016*; http://www.nlm.nih.gov/pubs/plan/lrp06/NLM_LRP2006_WEB.pdf). That plan includes four overall objectives that serve as the reference frame for the Partnership strategic planning process.

The process began with a number of discussions within the Executive Committee, the administrative arm of the Partnership. These discussions, by teleconference as well as face-to-face interactions at the Library on the NIH campus, culminated in a comprehensive review of the NLM Board of Regents-endorsed new 10-year Long Range Plan.

Later, in meetings at the Library, the Partnership organized into four working group, consistent with the NLM plan's four goals. Each group was charged with sorting from the 66-page Library plan challenges and strategies for the partnership—all within the context of the overarching mission of the Library.

The outcome was a report of each working group's deliberations. As with any broad-ranging discussion among multidisciplinary academicians with differing perspectives, numerous important and relevant topics were discussed, a number of which were beyond the boundaries of NLM statutory responsibilities. The Executive Committee attempted to capture the key themes of all of the working group reports. The results of that effort are reflected in the plan that follows.

Henry Lewis, III, Professor and Dean
College of Pharmacy and Pharmaceutical Sciences
Florida A&M University, Tallahassee, Florida
Chairman, National Library of Medicine Environmental Health Information Partnership
(2004 – 2011)

APPENDIX A

Environmental Health Information Partnership Meeting—March 11-12, 2013

VISION

EnHIP will be a strong, stable, and effective partner of NLM as the Library becomes even more central to scientific discovery and treatment and prevention of disease. Through this partnership, NLM programs and services, adapted to 21st century health and health sciences developments, will further strengthen the capacity of MSIs to perform three important and fundamental functions within the public health and health care system. These are: (1) educate and train health professionals; (2) conduct basic and applied research in disciplines pertinent to biomedicine, health services, health care, and health disparities; and (3) engage in community, public, and professional services.

MISSION

The mission of the Environmental Health Information Partnership is to enhance the capacity of minority serving academic institutions to reduce health disparities through the access, use and delivery of environmental health information on their campuses and in their communities.

Assumptions: Environmental health refers to the impact of chemical, microbial, physical, and radiological agents on the health of living organisms.

Minority serving educational institutions are those served by programs funded under Title III Historically Black Colleges and Universities, American Indian Tribally Controlled Colleges and Universities, Alaska Native and Native Hawaiian Serving Institutions, and Title V Hispanic Serving Institutions. (Reference: U.S. Department of Education, <http://www.ed.gov/about/offices/list/ope/index.html>).

STRATEGIC GOALS

Goal 1. Seamless, Uninterrupted Access to Expanding Collections of Biomedical Data, Medical Knowledge, and Health Information

Objectives of the Partnership for Achieving Goal 1

- Assess the current capacity of MSIs to access NLM databases and related Library resources that can enhance efforts of these colleges and universities to carry out their fundamental mission.
- Use the above-cited assessment to develop a program that will address the deficiencies revealed in the survey.
- Expand and intensify efforts to ensure that MSI faculty and students are thoroughly knowledgeable of detailed aspects of NLM collections of health and biomedical information.
- Provide technical assistance and related resources to aid MSIs in increasing knowledge and use of NLM programs and services by lay and professional groups within their surrounding communities.
- Initiate appropriate action to include selected MSI libraries in the National Network of Libraries of Medicine (NN/LM).
- Initiate the necessary administrative and logistical procedures to ensure that future NLM exhibits are available for display in MSI communities.

APPENDIX A

Environmental Health Information Partnership Meeting—March 11-12, 2013

- Convene a seminar, first at NLM and then at MSIs, on the “hows and whys” of disaster management information.
- Determine the extent of instruction in disaster management at MSIs and potential interest in disaster management information research consistent with the research agenda that may emerge from the NLM Disaster Information Management Research Center (DIMRC).

Goal 2. Trusted Information Services That Promote Health Literacy and the Reduction of Health Disparities

Objectives of the Partnership for Achieving Goal 2

- Structure a program (i.e., internships) to provide opportunities for interested students from MSIs to gain “field experience” in the operational aspects of NLM, including the management of the expansive databases and related activities.
- Initiate discussions with consumer advocacy groups in MSI communities to plan an intensive consumer awareness campaign designed to increase the number of consumers who are aware of and use NLM free high quality consumer information resources.
- Develop specific recommendations for increasing the number of underrepresented minorities in the library sciences workforce.
- Convene a symposium on research advances in environmental health, climate change effects, and the animal-human connection as it relates to disease, designed to enhance the understanding of librarians of the multiple dimensions of the confederations of disciplines that comprise the environmental health sciences and the implications of these advances for both NLM programs and services and for those of local library services.
- Emphasize and promote the importance of MSI community high school teachers’ and students’ understanding of environmental health, climate change, and the animal-human connection as it relates to disease, as well as knowledge and use of NLM environmental health databases.

Goal 3. Integrated Biomedical, Clinical, and Public Health Information Systems That Promote Scientific Discovery and Speed the Translation of Research into Practice

Objectives of the Partnership for Achieving Goal 3

- Determine the extent of electronic medical records use by physicians, hospitals, and clinics in MSI communities.
- Use data from the preceding objective as [a] basis for a seminar/discussion on the development of electronic health records, including presentations of case studies in which health records were [an] essential source of data.
- Increase MSI faculty members’ awareness of the value of electronic health records in environmental health and related research.
- Enhance MSI faculty involvement in translation of public health research findings and knowledge to evidence-based practice.
- Expand Partnership understanding of the NLM online resources and their relevance to the mission of MSIs. Increase MSI students’ and communities’ knowledge of [the] hows and whys of the NLM online resources and their relevance to consumer and academic services.

APPENDIX A

Environmental Health Information Partnership Meeting—March 11-12, 2013

- Attract new students to the field of environmental health research, including the study of climate change effects, comparative medicine, and vector-borne diseases.
- Play a leadership role in encouraging community engagement in research activities of MSIs.
- Increase research productivity and, in the process, increase contributions of MSI faculty members to professional journals.

Goal 4. A Strong and Diverse Workforce for Biomedical Informatics Research, Systems Development, and Innovative Service Delivery

Objectives of the Partnership for Achieving Goal 4

- Increase NLM/Partnership visibility in MSI communities.
- Increase Partnership knowledge of NLM programs and services designed to shape biomedical informatics education and training.
- Play a leadership role in initiating discussions of career opportunities in biomedical informatics and library science, including the promotion of interest in these careers.
- Ensure a prominent role for the NLM/Partnership in “career day” or similar programs at MSIs.
- Attract new MSI students to health sciences librarianship through NLM postgraduate Associate Fellowship Program.

APPENDIX A

Environmental Health Information Partnership Meeting—March 11-12, 2013

APPENDIX B

Environmental Health Information Partnership Meeting—March 11-12, 2013

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP MEETING

March 11–12, 2013

DIRECTORY OF GUEST SPEAKERS

Ms. Marnie Carroll

Office of Sponsored Programs
Colorado Mountain College
802 Grand Avenue
Glenwood Springs, CO 81601
TEL: 970.945.8691 ext 8347
E-mail: mcarroll@coloradomtn.edu

Dr. Emma Fernandez-Repollet

Professor and Program Director
Research Centers in Minority Institutions
University of Puerto Rico
Office 621-A, 6th Floor
Guillermo Arbona Building
Medical Sciences Campus
GPO Box 365067
San Juan, PR 00936-5067
TEL: 787.763.9401
E-mail: e.fernandez@upr.edu

Mr. Keith Gregory

Executive Director, Proton Therapy Institute
Hampton University
40 Enterprise Parkway
Hampton, VA 23666
TEL: 757.251.6800
E-mail: keith.gregory@hamptonproton.org

Ms. Cynthia Henderson

Executive Director, Louis Stokes Health
Sciences Library
Howard University
501 W Street, NW
Washington, DC 20059
TEL: 202.884.1723
E-mail: cynthia.henderson@howard.edu

Dr. Shirley Malcom

Head, Directorate for Education and Human
Resources
American Association for the Advancement of
Science
1200 New York Avenue, NW
Washington, DC 20005
TEL: 202.326.6440
E-mail: smalcom@aaas.org

Dr. Keith Norris

Executive Vice President for Research and
Health Affairs
Charles R. Drew University of Medicine and
Science
1731 E. 120th Street
Los Angeles, CA 90059
TEL: 323.249.5703
E-mail: keithnorris@cdrewu.edu

Dr. David Wilson

President
Morgan State University
Truth Hall, Rm 400
1700 East Cold Spring Lane
Baltimore, MD 21251
TEL: 443.885.3022
E-mail: david.wilson@morgan.edu

APPENDIX B

Environmental Health Information Partnership Meeting—March 11-12, 2013

APPENDIX C

Environmental Health Information Partnership Meeting—March 11-12, 2013

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP MEETING

March 11–12, 2013

BIOGRAPHIES

Ann Barbre, PhD, Associate Dean for Administration and Academic Support and W. Emile and Alitia D. Coleman Professor of Pharmacy at Xavier University of Louisiana, College of Pharmacy. Dr. Barbre earned a Bachelor of Science degree in Pharmacy at Xavier University, a Master of Science degree in Pharmacy at the University of Wisconsin-Madison and the Doctor of Philosophy degree in Health Care Administration at the University of Mississippi. She maintains licensure as a registered pharmacist in Louisiana and Illinois. Dr. Barbre also holds the position of Research Advisory Council, Symposium Chair for the Association of Minority Health Professions Schools, Inc.

Dr. Barbre has been a member of the College of Pharmacy faculty at Xavier for over 25 years. Her teaching responsibilities have centered on pharmacy management, behavioral pharmacy, professional communications and pharmaco-economics. Her interests include medication use in the elderly, psychosocial factors associated with health and medicine use, compliance and medical anthropology. Dr. Barbre has also served as the faculty advisor for Kappa Epsilon Pharmacy Fraternity for Women for many years. Research Interest: Aging; psychosocial factors associated with medicine use; compliance; health behaviors; medical anthropology.

Marnie Carroll, MS, oversees the Office of Sponsored Programs at Colorado Mountain College, which was recently ranked first in student retention and graduation rates in Colorado and 17th nationwide. From 2006–2011 Ms. Carroll was the Executive Director of the Diné College Environmental Institute on Navajo Nation where part of the Institute's mission was to address health disparities between poor, minority communities and wealthier ones through education and empowerment. She has bachelor's degrees in functional biology and computer science, and a master's degree in environmental chemistry. She also works as an independent consultant and mentor for underrepresented students in science, technology, engineering, and mathematics (STEM), and she serves on a number of advisory boards for underrepresented and underserved students.

Emma Fernández-Repollet, PhD, is Chair of the Steering Committee of the Research Centers in Minority Institutions (RCMI) Translational Research Network. In addition, she is the Principal Investigator of the RCMI Program at the University of Puerto Rico, Medical Sciences Campus. Previously, Dr. Fernández-Repollet was President of the National RCMI Program Directors Association.

She joined the faculty of the Department of Pharmacology at the University of Puerto Rico Medical School in 1982. Dr. Fernández-Repollet served as Vice President for Research and Technology at the University of Puerto Rico and holds membership in the Puerto Rico Trust for Science,

APPENDIX C

Environmental Health Information Partnership Meeting—March 11-12, 2013

Technology, and Research. She served on a number of review groups and advisory committees of the National Institutes of Health, including the National Research Advisory Council. Dr. Fernández-Repollet was Secretary of the Board of Directors of the Center for Quantitative Cytometry, and a member of the Board of Directors of the Alliance for the Economic Development of Puerto Rico. She served as Vice President of an industry/university research consortium (INDUNIV) from 2003–2011. In 2008, she received the Fred Greenwood Award in recognition of her contributions in the areas of research administration and health disparities.

Keith Gregory, MBA, serves as the Executive Director at the Hampton University Proton Therapy Institute (HUPTI). With over 25 years in oncology, Gregory is a passionate healthcare administrator who brings a wealth of knowledge and enthusiasm for oncologic services to the team. Mr. Gregory began his journey in health care as a radiologic technologist. After spending time as a radiation therapist and a dosimetrist, Mr. Gregory taught physics/dosimetry before moving into the administrative side of health care. Mr. Gregory led successful programs at St. Jude Children's Research Hospital, University of Tennessee Cancer Institute, New Mexico Cancer Center, and Riverside Health System. Mr. Gregory received a master of business administration degree from the University of Memphis and a Bachelor of Science degree in health care management from Southern Illinois University.

Cynthia Henderson, MILS, AHIP, is the Executive Director of the Louis Stokes Health Sciences Library at Howard University. Ms. Henderson is a Distinguished Member of the Medical Library Association's Academy of Health Information Professionals and has practiced librarianship for more than 22 years. She received an undergraduate degree from Alcorn State University and a graduate degree in information and library studies from the University of Michigan. She worked at Iowa State University, Charles R. Drew University of Medicine and Science, University of Illinois at Chicago, and Samuel Merritt College (now Samuel Merritt University). Before coming to Howard University, she was the Director of the Morehouse School of Medicine Library.

Shirley Malcom, PhD, is Head of the Directorate for Education and Human Resources Programs of the American Association for the Advancement of Science (AAAS). The Directorate includes AAAS programs in education, activities for underrepresented groups, and public understanding of science and technology. In 2003, Dr. Malcom received the Public Welfare Medal of the National Academy of Sciences, the highest award given by the Academy. She serves on several boards, including the Heinz Endowments and the H. John Heinz III Center for Science, Economics, and the Environment. She is an Honorary Trustee of the American Museum of Natural History. In 2006, she was named as Co-chair (with Leon Lederman) of the National Science Board Commission on 21st Century Education in STEM. She serves as a Regent of Morgan State University and as a Trustee of California Institute of Technology. In addition, she has chaired a number of national committees addressing education reform and access to scientific and technical education, careers, and literacy. Dr. Malcom is a former Trustee of the Carnegie Corporation of New York. She is a Fellow of the AAAS and the American Academy of Arts and Sciences. She served on the National Science Board, the policymaking body of the National Science Foundation, from 1994 to 1998. From 1994 to 2001, she served on the President's Committee of Advisors on Science and Technology.

APPENDIX C

Environmental Health Information Partnership Meeting—March 11-12, 2013

Victor R. McCrary, PhD, is the Vice President for Research and Economic Development at Morgan State University. In this position he works with deans and department chairs to develop and support institutional and cross-disciplinary research initiatives. Before coming to Morgan State University, Dr. McCrary spent several years at Johns Hopkins University's Applied Physics Lab where he served as its manager of emerging technology and innovation. His career also includes work at the National Institute for Standards and Technology and AT&T Bell Laboratories.

In 2000, he was the co-recipient of the Gold Medal from the Department of Commerce, for his leadership in catalyzing the electronic book industry, facilitating standards for the e-book industry, and the development of a Braille reader for e-books. In 2001, his research group received the R&D 100 Award for the prototype of the electronic book reader. It is from this research that today's Kindle and iPad readers owe their technological beginnings.

McCrary serves on advisory boards for several technology centers, including the Center for Advanced Nanoscale Materials at the University of Puerto Rico, the Electrical and Computer Engineering Department at The Citadel, and the Center for Hierarchical Manufacturing at the University of Massachusetts. He is a Fellow of the African Science Institute; and is a lecturer in the University of Pennsylvania's Executive Masters of Technology Management program. He was named the 2011 Scientist of the Year at the Black Engineer of the Year Awards.

Keith C. Norris, MD, FACP, FASN, is an internationally recognized research investigator and health program leader who has been instrumental in shaping national health policy and clinical practice guidelines. During 2007–2012 he ranked among the top 50 most highly funded National Institutes of Health (NIH) investigators in the nation and among the three most highly cited scientists in the world in the area of chronic kidney disease and health disparities. Dr. Norris has served as Executive Vice President for Research and Health Affairs at Charles R. Drew University of Medicine and Science (CDU). He is also an Assistant Dean for Clinical and Translational Science at the Geffen School of Medicine, UCLA.

In addition to being board certified in internal medicine and nephrology, Dr. Norris is an American Society of Hypertension Specialist in clinical hypertension. He serves as a member of the National Kidney Foundation Kidney Early Evaluation Program (KEEP) Executive Committee and the American Association of Kidney Patients (AAKP) Medical Advisory Board. Dr. Norris' research interests focus on hypertension and chronic kidney disease in African Americans. He was the CDU principal investigator for the NIH-funded African-American Study of Kidney Disease and Hypertension (AASK) and the AASK Cohort Study. He is the Editor-in-Chief of the *Ethnicity and Disease*, a multidisciplinary international journal focusing on minority ethnic population differences in health promotion and disease prevention. He is also an Associate Editor-elect for the *Journal of the American Society of Nephrology*.

APPENDIX C

Environmental Health Information Partnership Meeting—March 11-12, 2013

Steven J. Phillips, MD, is the Director of Specialized Information Services Division, and Associate Director, NLM. He is currently leading the effort to establish a Disaster Information Management Research Center at the Library. This Center, totally devoted to disaster informatics, is the first of its kind in the world. Dr. Phillips is a graduate of Hobart College and Tufts Medical School. He is board-certified in general and thoracic surgery. He co-founded the Iowa Heart Center, which has grown to 58 physicians specializing in cardiovascular disease. In 1974, he pioneered techniques for emergency coronary bypass surgery for evolving heart attacks, implanted the first artificial heart in Iowa, performed the first transplant in central Iowa, and invented technology for percutaneous cardiopulmonary bypass.

David Wilson, EdD, is the 12th President of Morgan State University. He has a long record of accomplishment and more than 30 years of experience in higher education administration. He came to Morgan State University from the University of Wisconsin, where he was Chancellor of the University of Wisconsin Colleges and the University of Wisconsin–Extension. Previously he served as Vice President for University Outreach and Associate Provost at Auburn University, and Associate Provost at Rutgers, the State University of New Jersey.

He was named one of the nation's top 100 leaders in higher education by the American Association of Higher Education in 1998; he was honored by the University of Alabama with an award for outstanding leadership in engaged scholarship in April 2011. In February 2010, President Barack Obama appointed him to the 11-member Board of Advisors on Historically Black Colleges and Universities.

APPENDIX D

Environmental Health Information Partnership Meeting—March 11-12, 2013

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP DIRECTORY OF CURRENT REPRESENTATIVES 2012–2013

Dr. Ann Barbre, PhD, Chairman

Professor and Associate Dean of Pharmacy
Xavier University of Louisiana
1 Drexel Drive
New Orleans, LA 70125
TEL: 504.520.7439
E-mail: arbarbre@xula.edu

**PARTICIPATING HISTORICALLY BLACK COLLEGES AND UNIVERSITIES,
HISPANIC-SERVING INSTITUTIONS, ALASKA NATIVE-SERVING INSTITUTIONS
and TRIBAL COLLEGES**

Bruce Allen, Jr., DrPH

Assistant Professor, Obstetrics/Gynecology
Charles R. Drew University of Medicine &
Science
1731 East 120th Street
Los Angeles, CA 90059
TEL: 323.563.5872
E-mail: brallen@cdrewu.edu

Raymond Anthony, PhD

Department of Philosophy
University of Alaska Anchorage
3211 Providence Drive
Anchorage, AK 99508
TEL: 907.786.4459
E-mail: afrxa@uaa.alaska.edu

Marnie Carroll, MS

Grants Director, Office of Sponsored
Programs
Colorado Mountain College
802 Grand Avenue
Glenwood Springs, CO 81667
TEL: 970.947.8347
E-mail: mcarroll@coloradomtn.edu

Robert Copeland, Jr., PhD

Associate Professor, Dept. of Pharmacology
Howard University College of Medicine
520 W Street NW, Room 3408
Washington, DC 20059
TEL: 202.806.6311
E-mail: rlcopeland@howard.edu

Kathleen A. Curtis, PT, PhD

Dean, College of Health Sciences
The University of Texas at El Paso
1101 North Campbell Street
El Paso, TX 79902
TEL: 915.747.7201
E-mail: kacurtis@utep.edu

Sandra Harris-Hooker, PhD

Vice President and Sr. Associate Dean
Research Affairs
Morehouse School of Medicine
720 Westview Drive SW
Atlanta, GA 30310-1495
TEL: 404.752.1725
E-mail: sharris-hooker@msm.edu

APPENDIX D

Environmental Health Information Partnership Meeting—March 11-12, 2013

Thomas H. Hatfield, DrPH, REHS, DAAS

Professor and Chair
Dept. of Environmental & Occupational
Health
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330-8412
TEL: 818.677.7476
E-mail: thomas.hatfield@csun.edu

Diógenes Herreño-Sáenz, PhD

Associate Professor, Department of
Pharmacology and Toxicology
School of Medicine
University of Puerto Rico
P.O. Box 365067
San Juan, PR 00936-5067
TEL: 787.758.2525 Ext 1005
E-mail: diogenes.herreno@upr.edu

Doris Holeman, PhD, RN

Associate Dean and Director of Nursing
College of Veterinary Medicine, Nursing and
Allied Health
Tuskegee University
Basil O'Connor Hall
Tuskegee, AL 36088
TEL: 334.727.8382
E-mail: dholeman@mytu.tuskegee.edu

Barbara Klein

Science Department Chair
Diné College
P.O. Box 183C
Tsaile, AZ 86556
TEL: 928.724.6720
E-mail: bklein@dinecollege.edu

Patricia Matthews-Juarez, PhD

Associate Vice President, Faculty Affairs and
Development, Professor
Department of Family and Community
Medicine
Meharry Medical College
1005 D B Todd Boulevard, Suite 127
Nashville, TN 37208
TEL: 615.327.6862 or 6718
E-mail: pmatthews-juarez@mmc.edu

Judith Mazique, JD, MPH

Assistant Professor, Environmental Health
College of Pharmacy and Health Sciences
Texas Southern University
3100 Cleburne Street
Houston, TX 77004
TEL: 713.313.4335
E-mail: mazique_jx@tsu.edu

Arlene Montgomery, PhD, RN

Dean, School of Nursing
Hampton University
110 Freeman Hall
Hampton, VA 23668
TEL: 757.727.5672
E-mail: arlene.montgomery@hamptonu.edu

Milton Morris, MPH, DAAS, CFSP

Director, Department of Environmental
Health Sciences
Benedict College
1600 Harden Street
Columbia, SC 29204
TEL: 803.705.4608
E-mail: morrism@benedict.edu

APPENDIX D

Environmental Health Information Partnership Meeting—March 11-12, 2013

Joan Nelson, RN, MSN

Instructor, Chairperson
Nursing Department
Oglala Lakota College
P.O. Box 861
Pine Ridge, SD 57770
TEL: 605.867.5856/7
E-mail: jnelson@olc.edu

Janet Rami, PhD, RN

Dean, School of Nursing
Southern University at Baton Rouge
P.O. Box 11794
Baton Rouge, LA 70813
TEL: 225.771.2166 or 3266
E-mail: janet_rami@subr.edu

T. Joan Robinson, PhD

Provost, Vice President of Academic Affairs
Morgan State University
1700 East Cold Spring Lane
Baltimore, MD 21251
TEL: 443.885.3350
E-mail: joan.robinson@morgan.edu

Paul B. Tchounwou, ScD, MSPH, MSc

Associate Dean and Distinguished Professor
College of Science, Engineering and
Technology
Jackson State University
P.O. Box 18540
Jackson, MS 39217
TEL: 601.979.3321
E-mail: paul.b.tchounwou@jsums.edu

Michael Thompson, PharmD, BCNSP

Dean, College of Pharmacy and
Pharmaceutical Sciences
Florida A&M University
1415 S. Martin Luther King, Jr. Boulevard
Tallahassee, FL 32307
TEL: 850.599.3301
E-mail: michael.thompson@famuc.edu

Daniel Wildcat, PhD

Professor of American Indian Studies
School of Arts and Sciences
Haskell Indian Nations University
155 Indian Avenue
Lawrence, KS 66046-4800
TEL: 785.832.6677
E-mail: dwildcat@haskell.edu

Doris Withers, EdD

Vice President for Assessment Planning and
Accountability
Medgar Evers College
City University of New York
1650 Bedford Avenue
Brooklyn, NY 11225
TEL: 718.270.5020
E-mail: doris@mec.cuny.edu

NLM CONSULTANT

John Scott

President, Center for Public Service Communications
10388 Bayside Drive
Claiborne, Maryland 21624
TEL: 703.536.5642
E-mail: jcscott@cpssc.com

APPENDIX E

Environmental Health Information Partnership Meeting—March 11-12, 2013

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP 2012–2013

EXECUTIVE COMMITTEE

Ann Barbre, PhD

Chairman

Professor and Associate Dean of Pharmacy
Xavier University of Louisiana
1 Drexel Drive
New Orleans, LA 70125
TEL: 504.520.7439
E-mail: arbarbre@xula.edu

Steven Phillips, MD

Associate Director

Division of Specialized Information Services
National Library of Medicine
6707 Democracy Boulevard, Suite 510
Bethesda, MD 20892
TEL: 301.496.3147
E-mail: sphillip@mail.nlm.nih.gov

Gale Dutcher, MLS, MS

Deputy Associate Director

Division of Specialized Information Services
National Library of Medicine
6707 Democracy Boulevard, Suite 510
Bethesda, MD 20892
TEL: 301.496.5082
E-mail: dutcherg@mail.nlm.nih.gov

Janice Kelly, MLS

**Chief, Outreach and Special Populations
Branch**

Division of Specialized Information Services
National Library of Medicine
6707 Democracy Boulevard, Suite 510
Bethesda, MD 20892
TEL: 301.443.5886
E-mail: janice.kelly@nih.gov

Cynthia Gaines

Project Officer

Division of Specialized Information Services
National Library of Medicine
6707 Democracy Boulevard, Suite 510
Bethesda, MD 20894
TEL: 301.496.3669
E-mail: gainesc@mail.nlm.nih.gov

Melvin L. Spann, PhD

Executive Secretary

National Library of Medicine (retired)
11525 Lovejoy Street
Silver Spring, MD 20902
TEL: 301.593.7364
E-mail: melspann7@aol.com

Bailus Walker, Jr., PhD

Senior Scientific Advisor

Professor of Environmental and Occupational
Medicine and Toxicology
Howard University College of Medicine
520 W Street NW
Washington, DC 20059
TEL: 202.806.4477
E-mail: bwalker@howard.edu

Rose Foster

Project Advisor

Health Promotion and Outreach Group
Oak Ridge Institute for Science and Education
P.O. Box 117, MS-37
Oak Ridge, TN 37831-0117
TEL: 865.576.9342
E-mail: rose.foster@ornl.gov

APPENDIX F

Environmental Health Information Partnership Meeting—March 11-12, 2013

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP 2012–2013

ALTERNATE REPRESENTATIVES

Seth Y. Ablordeppey, PhD

Professor and Division Director
College of Pharmacy and Pharmaceutical Sciences
Florida A&M University
1415 S. Martin Luther King Blvd.
Tallahassee, FL 32307
TEL: 850.599.3301
E-mail: seth.ablordeppey@famou.edu

Theresa Bettelyoun, MLS

Librarian
Branch Library User Services Specialist
Oglala Lakota College
490 Three Mile Creek Road
Kyle, SD 57752
TEL: 605.455.6066
E-mail: tbettelyoun@olc.edu

Jose Condé, MD, MPH

Associate Professor
Division of Graduate Studies
School of Medicine
University of Puerto Rico Medical Sciences Campus
P.O. Box 365067
San Juan, PR 00936-5067
TEL: 787.763.9401
E-mail: jose.condel@upr.edu

Bertha L. Davis, PhD, RN, FAAN, ANEF

Professor, School of Nursing
William Freeman Hall
Hampton University
Hampton, VA 23668
TEL: 757.727.5780
E-mail: bertha.davis@hamptonu.edu

Cheryl Davis, DHA, CLS (NCA)

Associate Dean, Administrative and Resource Development, College of Veterinary Medicine
Tuskegee University
Tuskegee, AL 36088
TEL: 334.724.4178
E-mail: davis@mytu.tuskegee.edu

Charles desBordes, PhD

Professor, Department of Biology
Medgar Evers College
City University of New York
1150 Carroll Street
Brooklyn NY 11225
TEL: 718.270.6207
E-mail: desBordes@mec.cuny.edu

João Ferriera-Pinto, PhD

Associate Research Professor
Director of Research and Special Projects
College of Health Sciences
The University of Texas at El Paso
1101 North Campbell Street
El Paso, TX 79902
TEL: 915.747.7295
E-mail: joao@utep.edu

Charles Haines

College of Arts and Sciences
Haskell Indian Nations University
155 Indian Avenue
Lawrence, KS 66046
TEL: 785.749.8404 ext 275
E-mail: chaines@haskell.edu

APPENDIX F

Environmental Health Information Partnership Meeting—March 11-12, 2013

Jean Hampton, PhD

Associate Professor
Department of Health Sciences
Texas Southern University
3100 Cleburne Street
Houston, TX 77004
TEL: 713.313.7377
E-mail: hampton_JM@tsu.edu

Kathleen Kennedy, PharmD

Associate Dean, College of Pharmacy
Xavier University of Louisiana
1 Drexel Drive
New Orleans, LA 70125
TEL: 504.520.7421
E-mail: kkennedy1@xula.edu

Melissa Littlefield, PhD

Associate Professor
School of Social Work
Morgan State University
1700 East Cold Spring Lane, Jenkins Building
Baltimore, MD 21251
TEL: 443.885.4300
E-mail: melissa.littlefield@morgan.edu

Safiya Omari, PhD

Associate Professor of Social Work and
Health Sciences
Director, Southern Institute for Mental Health
Advocacy, Research, and Training
Jackson State University
350 West Woodrow Wilson Avenue
Jackson, MS 39213
TEL: 601.979.1530
E-mail: safiya.r.omari@jsums.edu

Gail Orum-Alexander, PharmD

Dean, College of Science and Health
Charles Drew University of Medicine &
Science
1731 East 120th Street
Los Angeles, CA 90059-3051
TEL: 323.563.5851
E-mail: gailorum@cdrewu.edu

Jackie Pflaum, DNSc, RN

Associate Vice Provost for Health Programs
University of Alaska Anchorage
3211 Providence Drive
Anchorage, AK 99508
TEL: 907.786.4574
E-mail: afjsp@uaa.alaska.edu

Samir Raychoudhury, PhD

Professor, Biology, Chemistry and Environ-
mental Health Sciences
Benedict College
1600 Harden Street
Columbia, SC 29204
TEL: 803.705.4648
E-mail: raychoudhury@benedict.edu

Thomas E. Smith, PhD

Professor, Biochemistry and Molecular
Biology
Department of Pharmacology
College of Medicine
Howard University
520 W Street NW, Room 3408
Washington, DC 20059
TEL: 202.806.6289
E-mail: tsmith@howard.edu

APPENDIX F

Environmental Health Information Partnership Meeting—March 11-12, 2013

Jonathan Stiles, PhD

Professor, Microbiology, Biochemistry, and
Immunology
Morehouse School of Medicine
720 Westview Drive, SW
Atlanta, GA 30310
TEL: 404.752.1585
E-mail: jstiles@msm.edu

Michael Sullivan, PhD, CIH, REA

Associate Professor
Department of Environmental and
Occupational Health
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330-8412
TEL: 805.728.5317
E-mail: michael.sullivan@csun.edu

Cheryl Taylor, PhD, RN

Associate Professor
Director, Office of Nursing Research
Southern University Baton Rouge
P.O. Box 11794
Baton Rouge, LA 70813-0400
TEL: 225.771.2632
E-mail: cheryl_taylor@subr.edu

VACANT

Diné College
P.O. Box 7B
Tsaile, AZ 86556

VACANT

Meharry Medical College
1005 D B Todd Boulevard, Suite 127
Nashville, TN 37208

APPENDIX F

Environmental Health Information Partnership Meeting—March 11-12, 2013

APPENDIX G

Environmental Health Information Partnership Meeting—March 11-12, 2013

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP

EnHIP PROJECTS 2012–2013

Benedict College, Columbia, South Carolina

Incorporating Competitive Team Presentations to Improve Minority-Serving Institutions' Knowledge of National Library of Medicine Resources of Information for Understanding Animal Contributions to Human Disease

Students affiliated with the Student Environmental Health Association will use NLM online databases for research related to zoonotic contributors to human disease. Students will work in teams and make presentations within seminar classes made up of junior- and senior-level students majoring in science disciplines such as biology, chemistry, and environmental health science. The teams will be evaluated and will compete for awards.

These training exercises will build on a foundation established through previous EnHIP Outreach Awards. This project responds to the EnHIP Strategic Plan directive to expand students' knowledge of NLM collections. Also, it promotes the importance of students' understanding of environmental health topics.

The University of Texas at El Paso, El Paso, Texas

Examination of and Marketing to University of El Paso Students for the Development of an Understanding of and an Interest in Health-Related Information to Serve Vulnerable Underserved Populations Including Hispanic Individuals in Border Communities

This project is designed to develop an infrastructure at the University of Texas at El Paso that will be used to educate and facilitate students' interest in health literacy topics and careers to serve vulnerable and underserved populations including Hispanic individuals living in border communities. The project will support a series of focus groups to determine an understanding of current awareness on campus regarding health disparities and the access, use, and delivery of health information. Findings will identify topics of cultural relevance and inform decisions about methods of outreach and dissemination most preferred by students. Students will be provided a research symposium to stimulate an introduction to and an interest in career opportunities in environmental health, biomedical research, and health care fields. They will learn practical applications of the National Library of Medicine databases and gain an understanding of how the information can help them engage in the advocacy of health promotion activities.

These tasks relate to several EnHIP Strategic Plan directives, including providing the opportunity to increase the number of racial and ethnic minorities in the environmental health, biomedical research, and health care workforce.

APPENDIX G

Environmental Health Information Partnership Meeting—March 11-12, 2013

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 continue to enhance 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 Tenth International Symposium on Recent Advances in Environmental Health Research. The workshop, focused on Web resources of NLM, is designed to meet the needs of environmental and biomedical scientists, researchers, and policy makers. With access to NLM databases, they can gain information on health issues related to exposure to environmental substances and environmental agents known to induce illnesses. Activities of the workshop will involve classroom lectures and computer practice sessions to learn how to access and use NLM resources. Major emphasis will be placed on navigating through the TEHIP's TOXNET® (Toxicology Data Network) databases and related resources.

Attendees of the workshop will include Jackson State University faculty and students who are involved in biomedical sciences and environmental health research, as well as students, faculty, and scientists who will participate in the international symposium. The project fully supports EnHIP's mission of enhancing the capacity of minority-serving institutions to reduce health disparities by providing training and developing skills of the faculty, students, staff, and scientists in attendance.

Medgar Evers College, City University of New York, New York, New York

Genomics Education and Outreach Program: Human DNA Variation, Health, and the Environment

In its sixth year of operation, the Genomics Education and Outreach Program informs students about the human genome project, the science of genomics, and the impact on science and society. The program maintains an affiliation with the Brooklyn Public Library's Human Genome Project Community Conversations Committee to increase genetic literacy among people in the community. The goal is to empower them through information and education to make informed genetics-related decisions and to enhance the quality of their lives.

Together with the Brooklyn Public Library, the program will sponsor several workshops and presentations related to genetics, health, and ancestry. Participants will use NLM resources, including PubMed®, the National Center for Biotechnology Information, and Genetics Home Reference. In addition, two workshops for high school students will be provided. Activities for Family Health History Month will include at least three training seminars.

The target audience will be students majoring in biology at Medgar Evers College, along with other students, faculty, and staff. Selected high school students will be enrolled in workshops. Activities affiliated with the Brooklyn Public Library engage community members.

APPENDIX G

Environmental Health Information Partnership Meeting—March 11-12, 2013

These efforts will build on a foundation established through previous EnHIP Outreach Awards. This project responds to the EnHIP Strategic Plan's directives by increasing students' and communities' knowledge on NLM online resources and their relevance to consumer and academic services. It expands efforts to ensure faculty and students are thoroughly knowledgeable of the NLM collection of health and biomedical information.

Meharry Medical College, Nashville, Tennessee

Engage in Community, Public, and Professional Services in the Use of Electronic Databases of the National Library of Medicine

Members of the Community Disaster Alliance of Nashville will continue to develop its work on disaster preparedness; they will build on the foundation established through a previous EnHIP Outreach Award. Representatives of 30 organizations will receive training in the use of NLM databases so they are better equipped to reduce health disparities emerging out of disasters, such as floods and tornadoes. Trainings will be conducted with the assistance of librarians from the metro public libraries.

Participants affiliated with three churches will take part in six trainings so they can assist their members in the use of advanced searches related to disaster preparedness, community health, and management of chronic diseases. In addition, two individual trainings and one joint training on NLM databases will benefit Les Gemmes, a civic organization that mentors teen girls in a medically underserved community.

All trainings will be promoted through traditional and social media channels to encourage wide participation. This project responds to the EnHIP Strategic Plan's directive to enhance the capacity of minority-serving institutions to engage in community, public, and professional services that improve knowledge of electronic access and availability.

Morgan State University, Baltimore, Maryland

Project 3E+: Enable, Engage, and Empower Morgan State University Students and Community Partners with Electronic Health Information Resources

The purpose of the project is to increase awareness and maximize use of NLM databases and resources. Six training sessions will be conducted by graduate-level interns in the School of Community Health and Policy. They will make presentations to other Morgan State University students, and at least one session will be made for community partners. A kiosk in the library will be equipped for easy access to NLM databases. The goal is to expand and intensify education efforts so that faculty, students, and community professionals are thoroughly knowledgeable about detailed aspects of NLM collections of health and biomedical information.

An evaluation will show the success of the project. It will measure attendance, and satisfaction with presentations, assignments, and materials. The project responds to the EnHIP Strategic Plan by addressing the directives to educate and train health professionals and engage the community.

APPENDIX G

Environmental Health Information Partnership Meeting—March 11-12, 2013

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

UPR—Medical Sciences Campus: Outreach Project in Environmental Health Information, 2012–2013

The goal of this project is to reduce the inequality in health literacy and to gain greater access to information related to health among minority groups and disadvantaged communities. Trainings in the use of NLM resources will be offered to a broad spectrum of students and community members as a way to reach minority and underserved groups. All workshops and conferences will be offered in Spanish.

The outreach program will develop leadership workshops and deliver training on NLM resources for a group of students from ASPIRA Alternative School. The students will make presentations and serve as counselors and a support group for other students seeking information about health, sexual at-risk behaviors, smoking, alcohol abuse, and drug abuse. They will reach out to other schools and into the community.

Trainings on women's health issues will be given to groups of women. The emphasis will be on identifying credible health sites and retrieving understandable information.

At the Medical Sciences Campus, graduate students in the programs of microbiology, anatomy, pharmacology and toxicology, and biochemistry will be trained in the effective use of NLM resources.

The project supports EnHIP's mission of enhancing the capacity of minority-serving institutions to reduce health disparities by providing access and training on the use of NLM databases and resources.

APPENDIX H

Environmental Health Information Partnership Meeting—March 11-12, 2013

NEWEST MEMBER OF THE ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP

The National Library of Medicine (NLM) Environmental Health Information Partnership (EnHIP) is collaboration between NLM and Historically Black Colleges and Universities (HBCUs), a Predominately Black Institution (PBI), Hispanic-Serving Institutions (HSIs), Tribal Colleges and Universities, and an Alaska Native-Serving Institution. The newest institution to participate in the Partnership is Colorado Mountain College.

The addition of this institution complements the multi-diverse Partnership and further enhances the Partnership's Mission among minority-serving academic institutions to reduce health disparities through the access, use, and delivery of environmental health information on their campuses and in their communities.

Colorado Mountain College



Colorado Mountain College serves nine counties in north central Colorado. Each year nearly 25,000 students take classes online and at 11 locations, including three residential campuses. About 89% of students live in rural areas.

Colorado Mountain College is listed in the top 20 nationally for student success among more than 800 two-year colleges, as ranked by CNN/Money. The college is also ranked first among Colorado's two-year colleges for graduation-plus-transfer rates.

In 2011, the college started offering two bachelor's degrees: a bachelor of science in business administration and a bachelor of arts in sustainability studies. This year the institution has graduated its first class of bachelor's degree candidates.

Academic areas of emphasis are the arts, education, engineering, environmental science, entrepreneurship, agriculture, natural resource management, multimedia communication, emergency services, health sciences, hospitality/tourism, information technology, and skilled trades.

The college's current Hispanic enrollment is 22%, and the number of Hispanic students is expected to increase steadily in the coming years because of a large influx of Hispanic workers. The college also serves a large number of first-time college students from rural communities.

The mission of the college is "To Create a Better Future." The vision of the school is "First Choice in Learning, First Choice in Partnership, First Choice in Leadership."

Colorado Mountain College is accredited by the Higher Learning Commission, which is a member of the North Central Association of Colleges and Schools.

