

THE NATIONAL LIBRARY OF MEDICINE

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP

PROCEEDINGS

National Library of Medicine
El Paso, Texas
June 29–July 1, 2009

U.S.-Mexico Border Health

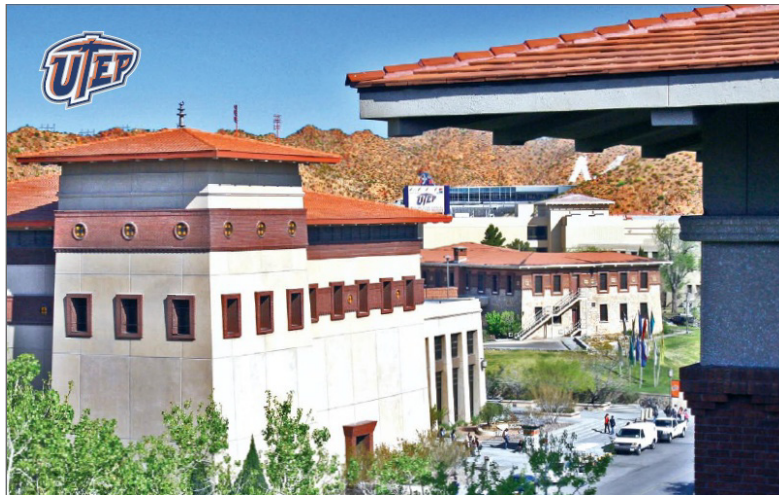
Prepared for
Division of Specialized Information Services
National Library of Medicine

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

Photos courtesy of The University of Texas at El Paso

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.

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



The University of Texas at El Paso

The University of Texas at El Paso (UTEP) was founded in 1914 as the Texas State School of Mines and Metallurgy; Colleges of Mines and Metallurgy in 1919; Texas Western College in 1949; and UTEP in 1967. UTEP is the country's only doctoral research intensive university with a student body that is predominantly Mexican-American. As the center for intellectual capital in the region, UTEP has awarded over 80,000 degrees over the past 94 years and ranks among the top University of Texas System academic institutions in research spending.

The majority of the university's 90 buildings portray the Bhutanese-style architecture modeled after Bhutanese monasteries featuring sloping walls, high inset windows and projecting roof eaves. In the midst of mountain vistas, the university's location on the U.S.-Mexico border allows the institution to offer unique academic and research programs. These programs help fill a critical regional and national demand for experts in education, health, environmental science and homeland security.

UTEP is among the top four universities in the nation awarding bachelor degrees to Hispanics and currently offer 81 bachelor degrees, more than 70 master and 14 doctorate level programs. In addition, they offer cooperative PhD programs in pharmacy and nursing with the University of Texas at Austin and the University of Texas Health Sciences Center at Houston. UTEP makes the most of its distinctive strengths in the areas of biomedical, health and Hispanic health disparities; border security; environmental and earth science; emerging technologies; borderland arts and humanities; and the education of U.S. Hispanics. UTEP is also fast becoming the leading center of research on immigration and policy studies, international studies, and U.S. Mexico business and economics.

CONTENTS

The University of Texas at El Paso.....	iii
AGENDA.....	vii
ATTENDEES	1
I. Welcome and Introductions.....	2
II. Media in the 21 st Century	3
III. Welcome and Introductions	3
IV. Greetings.....	3
V. UTEP, Overview and Tier One.....	4
VI. UTEP’s Contribution to Health Education and Research.....	5
VII. Overview of Navajo Ethno-Medical Encyclopedia Project	6
VIII. Social Determinants for U.S.-Mexico Border Health.....	6
IX. El Paso County Health Fact Book	7
X. Mexican Cartels and the Drug War.....	8
XI. Public Health Without Borders.....	8
XII. Environmental Health at the U.S.-Mexico Border	9
XIII. Overview of the La Fe Clinic.....	9
XIV. National Network of Libraries of Medicine, South Central Region.....	10
XV. Sharing Information and Knowledge Through the U.S.-Mexico Border Virtual Health Library	11
XVI. EnHIP Outreach Awards Presentations	12
XVII. Closing Remarks and Discussion	15
XVIII. UTEP Library Tour and Presentation	17

XIX. El Paso Cultural Tour	17
APPENDIX A: Directory of Guest Speakers	21
APPENDIX B: Speaker Biographies.....	23
APPENDIX C: EnHIP Directory of Current Representatives	27
APPENDIX D: EnHIP Executive Committee	31
APPENDIX E: EnHIP Directory of Alternate Representatives	33
APPENDIX F: EnHIP Projects 2008–2009.....	37
HBCUs, HSIs, and Tribal Colleges Environmental Information Outreach Map(<i>inside back cover</i>)	



**NATIONAL LIBRARY OF MEDICINE
ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP
The University of Texas at El Paso
Union Building East, 3rd Floor
El Paso, Texas
June 29–July 1, 2009
Henry Lewis, III, PharmD, Presiding**

AGENDA

Monday Evening—June 29, 2009

6:00 p.m.–9:00 p.m. **Media in the 21st Century** (*Templeton Suite, Room 313E*)
Chris López, BA
Executive Editor, *El Paso Times*

Tuesday—June 30, 2009

8:15 a.m.–8:45 a.m. CONTINENTAL BREAKFAST (*University Suite, Room 312E*)

8:45 a.m.–9:05 a.m. **Welcome and Introductions**
Henry Lewis, III, Pharm.D
Chairman, EnHIP

9:05 a.m.–9:20 a.m. **Greetings**
Steven Phillips, MD
Associate Director, NLM

9:20 a.m.–9:40 a.m. **The University of Texas at El Paso Overview and Tier One**
Diana Natalicio, PhD
President, The University of Texas at El Paso

9:40 a.m.–10:00 a.m. **UTEP's Contribution to Health Education and Research**
Robert L. Anders, PhD
Dean, School of Nursing

10:00 a.m.–10:45 a.m. **Overview of Navajo Ethno-Medical Encyclopedia Project**
Edward Garrison, PhD, MPH
Martha Austin-Garrison, MA
Faculty, Diné College, Shiprock, New Mexico

10:45 a.m.–11:00 a.m.	BREAK
11:00 a.m.–11:45 a.m.	Social Determinants for U.S.-Mexico Border Health Hector Balcázar, PhD Professor and Regional Dean University of Texas (UT) School of Public Health El Paso Regional Campus
11:45 a.m.–12:15 p.m.	El Paso County Health Fact Book Victor Cardenas, MD, MPH, PhD Associate Professor, UT School of Public Health El Paso Regional Campus
12:15 a.m.–1:00 p.m.	WORKING LUNCH (<i>University Suite, Room 312E</i>) Mexican Drug Cartel Culture Howard Campbell, PhD Professor, College of Liberal Arts
1:00 p.m.–1:30 p.m.	Group Picture Laura Trejo, CRD-Photography University Communications, UTEP
1:30 p.m.–2:00 p.m.	Public Health Without Borders Maria T. Cerqueira PhD PAHO Chief, U.S.-Mexico Border Field Office El Paso, Texas
2:00 p.m.–2:45 p.m.	Environmental Health at the U.S.-Mexico Border Dr. Nick Pingitore, PhD Adjunct Faculty, School of Nursing
2:45 p.m.–3:15 p.m.	Question and Answer Session
3:15 p.m.–3:30 p.m.	BREAK
3:35 p.m.–3:55 p.m.	Depart for La Fe Clinic
4:05 p.m.–5:15 p.m.	Overview and Tour of La Fe Clinic Robert Gonzáles Chief Operating Officer, La Fe Clinic
5:15 p.m.–5:30 p.m.	Depart from La Fe Clinic Brief Day 1 Wrap-up & Day 2 Overview (<i>on the bus</i>)
5:30 p.m.	Return to Hilton Garden Inn Dinner on your own

Wednesday—July 1, 2009

- 8:30 a.m.–9:00 a.m. **Continental Breakfast** (*University Suite, Room 312E*)
- 9:00 a.m.–9:30 a.m. **National Network of Libraries of Medicine (NN/LM)
South Central Region (SCR)**
Michelle Malizia, MA
Associate Director, NN/LM SCR
Houston, Texas
- 9:30 a.m.–10:00 a.m. **Sharing Information and Knowledge Through the
U.S.-Mexico Border Virtual Health Library**
Lorely Ambriz, MSIS
Librarian, U.S.-Mexico Border Office, PAHO
- 10:00 a.m.–10:15 a.m. BREAK
- 10:15 a.m.–11:30 a.m. **EnHIP Outreach Awards Presentations**
- Robert Copeland, Jr., PhD, *Howard University*
 - Doris Withers, EdD, *Medgar Evers College*
 - Diógenes Herreño-Sáenz, PhD, *University of Puerto Rico,
Medical Sciences Campus*
 - Pamela Hammond, PhD, RN, FAAN, ANEF, *Hampton University*
 - Henry Lewis, III, PharmD, *Florida A&M University*
- 11:30 a.m.–12:00 p.m. **Wrap-up**
- 12:00 p.m.–12:30 p.m. LUNCH (*boxed lunches*)
- 12:45 p.m.–4:50 p.m. **Tours:**
- UTEP Library
 - Tour Downtown El Paso
 - Mission Trail/Museum
 - Tigua Cultural Center

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

**PROCEEDINGS OF THE ENVIRONMENTAL HEALTH
INFORMATION PARTNERSHIP (EnHIP) MEETING
June 29–July 1, 2009**

The Environmental Health Information Partnership (EnHIP) convened for its summer session on June 29, 2009, at 6:00 p.m. with a dinner meeting that was held on the campus and hosted by The University of Texas at El Paso (UTEP). The meeting continued for a full day on June 30 and a half-day on July 1, closing out with cultural tours of the El Paso area. Dr. Henry Lewis, III, dean, College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, and EnHIP chairman, presided. The theme of the meeting was “U.S.-Mexico Border Health”.

ATTENDEES

Representatives from Participating Institutions

Dr. Bruce Allen, Jr., Charles Drew University of Medicine and Science
Dr. Robert Anders, The University of Texas at El Paso
Dr. Ann Barbre, Xavier University of Louisiana
Dr. Robert Copeland, Jr., Howard University College of Medicine
Dr. Cheryl Davis, Tuskegee University (Alternate)
Dr. Joao Ferreira-Pinto, The University of Texas at El Paso (Alternate)
Dr. Pamela Hammond, Hampton University
Ms. Cynthia Henderson, Morehouse School of Medicine
Dr. Diógenes Herreño-Sáenz, University of Puerto Rico Medical Sciences Campus
Dr. Henry Lewis, III, Florida A&M University (EnHIP Chairman)
Dr. Patricia Matthews-Juarez, Meharry Medical College
Dr. Judith Mazique, Texas Southern University
Dr. Milton Morris, Benedict College
Dr. Allan Noonan, Morgan State University (Alternate)
Dr. Michael Sullivan, California State University at Northridge (Alternate)
Dr. Cheryl Taylor, Southern University at Baton Rouge (Alternate)
Dr. Paul Tchounwou, Jackson State University
Dr. Doris Withers, Medgar Evers College

Consultants to the EnHIP

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

Speakers

Ms. Lorely Ambriz, Pan American Health Organization
Dr. Robert Anders, The University of Texas at El Paso
Mrs. Martha Austin-Garrison, Diné College
Dr. Hector Balcázar, The University of Texas at El Paso Regional Campus
Dr. Howard Campbell, The University of Texas at El Paso
Dr. Victor Cardenas, The University of Texas at El Paso Regional Campus
Dr. Maria Cerqueira, Pan American Health Organization
Dr. Edward Garrison, Diné College
Mr. Robert Gonzáles, La Fe Clinic
Mr. Chris López, El Paso Times Newspaper
Ms. Michelle Malizia, National Network of Libraries of Medicine
Dr. Diana Natalicio, The University of Texas at El Paso
Dr. Nicholas Pingitore, The University of Texas at El Paso
Ms. Kristin Sánchez, The University of Texas at El Paso
Mr. Robert Stakes, The University of Texas at El Paso

Invited Guests

Mr. Cesar Ayala, The University of Texas at El Paso
Mrs. Irma Cardenas, Texas Finish Line Campaign
Mrs. June Werner, Chairman Emerita of Nursing, Evanston Hospital Corporation (Retired)
Dr. Oswald Werner, Professor Emeritus of Anthropology, Northwestern University (Retired)

NLM Staff

Dr. Steven Phillips, Division of Specialized Information Services
Ms. Gale Dutcher, Division of Specialized Information Services
Ms. Cynthia Gaines, Division of Specialized Information Services (EnHIP Project Officer)

ORISE Staff

Ms. Rose Foster, Oak Ridge Institute for Science and Education (EnHIP Project Advisor)
Ms. Mona Carrasco, Oak Ridge Institute for Science and Education

I. Welcome and Introductions

During the 6:00 p.m. evening meeting on June 29, Dr. Henry Lewis, III, dean, College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, and chairman of the EnHIP, welcomed the attendees to the working dinner meeting on behalf of the city of El Paso and EnHIP. Dr. Robert Anders, dean, School of Nursing, welcomed the attendees on behalf of The University of Texas at El Paso (UTEP) and expressed his appreciation to the group for making the journey to learn of some of the issues of border health and UTEP.

Following Dr. Anders' welcome, Dr. Lewis introduced Mr. Chris López, executive editor of the *El Paso Times*. A brief overview of Mr. López's accomplishments, as well as highlights of his

extensive experience in public relations, marketing, and social media was shared with the members.

II. Media in the 21st Century

In his greetings, Mr. López expressed his gratitude to the EnHIP and credited its projects as an incredible resource for his newsroom and journalists across the country. Though the newspaper industry is struggling, López encourages his newsroom to celebrate the newspaper and produce journalism that matters to the community. The population base in El Paso is unique and special, however, the issues they face in their everyday lives from an environmental, educational, and health perspective are issues that resonate across the country. Issues surrounding health and the environment are very important to the El Paso border region, including the environmental ASARCO smelter plant cleanup.

The *El Paso Times* not only produces a daily newspaper but also an electronic digital edition of the newspaper. Users can sign up for areas of interest, such as environmental health, and receive pop-up alerts that will keep them informed at <http://www.elpasotimes.com>. The need for journalism today was emphasized as an avenue to access current issues, such as the health care debate and efforts to reform immigration. El Paso is in “front of a national wave” as they look at the minority and majority of this country. The medical community and the health issues affecting El Paso’s communities are top priorities in the border region. Due to the diversity of El Paso, their journalists have an opportunity to report regional stories, thus enabling people across the country to read about the issues. As a result, journalists can be ensured that people are held accountable, and certain public issues are being addressed.

Mr. López’s comments were well received and led to an extended period of questions and answers about the future of journalism and its role on several issues affecting society and politics.

III. Welcome and Introductions

The EnHIP members met the following morning, June 30th, in the UTEP Union Building East, to continue with a full day’s meeting. The Chairman, Dr. Henry Lewis, requested self introductions of the assembled members for the benefit of those who were unable to attend the night before. Afterwards, he introduced Dr. Steven Phillips, associate director, Division of Specialized Information Services, National Library of Medicine (NLM), who delivered greetings to the members.

IV. Greetings

Dr. Steven Phillips thanked Dr. Robert Anders, dean, School of Nursing, for hosting the meeting. In his overview of activities at the National Library of Medicine (NLM), Dr. Phillips informed members of an expected stimulus package that will support training grants and other programs. He described a diverse range of exhibits that are periodically displayed at NLM, including upcoming exhibits; *Rewriting the Book of Nature: Charles Darwin and the Rise of Evolutionary*

Theory which is currently running now though January 2010 and the *Native American Concepts of Health and Illness*, which is expected to open in 2010.

The early history of EnHIP and its valued relationship with NLM, beginning with a pilot project in 1991—the Toxicology Information Outreach Project (TIOP) was shared with the members. This project was implemented to study and determine if NLM could provide information related to toxicology and environmental health to a network of Historically Black Colleges and Universities (HBCUs). The value and success of the project later became one of the longest-standing outreach programs of NLM. The name was changed to the Environmental Health Information Outreach Program (EnHIOP) as more schools were added to the program in order to reflect more of the activities and meaning of the program. Due to its unique affiliation with HBCUs, Hispanic-Serving Institutions, and Tribal Colleges and Universities, the name changed last year (2008) to reflect a true partnership with NLM: The Environmental Health Information Partnership (EnHIP).

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 information on their campuses and in their communities. Dr. Phillips proposed that EnHIP expand the mission statement by including a reference to networking; through proactive and collaborative partnerships, EnHIP would work together or network to develop projects and programs to enhance activities in their communities.

In conclusion, Dr. Phillips discussed subjects related to the theme of the meeting, “U.S.-Mexico Border Health” and the importance of the meeting location in a border city (El Paso, Texas), near the origination of the H1N1 virus in Mexico. The H1N1 virus is a new type of influenza A, containing genetic material similar to the 1918 virus yet different enough to make a large percentage of the population susceptible to its effects. NLM’s role in leading a network plan to help hospitals deal with surges from catastrophic events, such as the return of the H1N1 virus was discussed. NLM is leading a collaborative effort among three hospitals in Montgomery County, Maryland: the Navy National Medical Center, the NIH Clinical Center, and Suburban Hospital, a community-based hospital recently affiliated with Johns Hopkins Medicine. The collaborative efforts involve moving patients and equipment as needed and strengthening communications and information access among the three. This is an example of how the EnHIP members can network with their librarians and local hospital administrators to form partnerships that will enable them to work together and share information regarding bed availability, staff availability, and equipment exchange. Librarians can become part of emergency management and response teams by providing information access during a disaster to strengthen communication between hospitals and by educating the responders and personnel.

V. UTEP, Overview and Tier One

Dr. Diana Natalicio, president, The University of Texas at El Paso (UTEP), officially welcomed the members and guests to the campus and provided the history and overview of the university. It was noted that UTEP will be celebrating its 100th year in 2014 and maintains a strong focus on science and engineering.

UTEP is a public university located in a region that is historically underserved and undereducated. It has been successful in providing all young people in the region access to education. This is quite an achievement, considering that underrepresented minorities that make up 75 percent of the El Paso community. The university continues to be dedicated not only to minority access but also to research activity. Hispanic enrollment growth has been steady and substantial. Even though tuition is significantly less than that of peer institutions in the state, one of the biggest challenges for the university is helping students address their financial issues through offered installment payments and emergency book loans. In addition, the university has experienced increased efficiency in student progress and as a result has been granting more degrees at a faster pace due to aggressive advising and a follow-up program. UTEP's health profession degrees have increased significantly since the early 1990s and the doctoral programs as well as research expenditures have grown dramatically. As a result, the institution has qualified as one of seven tier one universities, ranking UTEP third in Texas among all public universities and fourth in total federal expenditures. The institution continues to strive for increased numbers of graduate and PhD level degrees in the Latino population. It is supported by programs at the National Science Foundation and the National Institutes of Health (NIH) to build its infrastructure and capacity to compete for RO1 grants.

VI. UTEP's Contributions to Health Education and Research

Dr. Robert Anders, dean, School of Nursing, discussed UTEP's vision of growth in terms of the health professional areas. The Texas system has invested in local health education through the recent opening of Texas Tech University Health Sciences Center in El Paso and UTEP's new building for the College of Health Sciences and the School of Nursing, which is scheduled for completion in the spring of 2011.

Dr. Anders reported increased enrollment in the School of Nursing and discussed the urgent need to increase the number of nurses available to work with the Hispanic population. Less than 2 percent of registered nurses in the nation are Hispanic, and the shortage is expected to dramatically increase by the year 2020. Goals and challenges were discussed along with a review of the various innovative programs offered through UTEP's School of Nursing to help increase bachelor-level nursing enrollment to at least 60 percent. However, there is the expectation of a substantial increase in the total number of undergraduate and graduate program degrees this year. To date, 305 undergraduate and 65 graduate-level nursing degrees have been awarded for a total of 370.

UTEP's graduate programs include nurse practitioners in acute care, oncology, family, pediatrics, management, and education. A doctorate of nursing practice is expected to be offered in the fall. In collaboration with the Health Sciences Center, the interdisciplinary PhD program is in its fifth year and is taught by faculty from both Health Sciences and Nursing. UTEP also has a pharmacy program in collaboration with the University of Texas at Austin. The "Promotora" model was described to show how it aids in the improvement of Hispanic cardiovascular health care. The Promotora model is a community outreach program based on a Latin-American approach that reaches underserved populations through peer education.

VII. Overview of Navajo Ethno-Medical Encyclopedia Project

Dr. Edward Garrison, head of the Biology and Health Curriculum at Diné College, Shiprock, New Mexico, and Mrs. Martha Austin-Garrison, also a professor and faculty member at Diné College, teamed to present the Navajo concepts of health and illness. They reviewed the overall goal of this multi-decade endeavor, a comprehensive encyclopedia of health and healing knowledge.

The Navajo Nation, in collaboration with Diné College and the University of Arizona's College of Public Health, was awarded a Native American Research Centers for Health grant in 2002. The Encyclopedia Project has the distinct honor of being the first research project funded under the award at Diné College. The Navajo language program is housed at Diné College and is accredited to offer up to eight courses on the upper' undergraduate level. Two \$5000 grants allowed the employment of students to retype and proofread texts from the '60s and '70s. Modern technology enables the scanning of these texts into electronic document form. Funding from the National Library of Medicine made it possible to take these texts and convert them to Navajo Microsoft Word orthography. These special fonts can be downloaded at the Diné College Web site by anyone in the world. The Encyclopedia endeavor is unique both for the Native American culture as well as cultures on a global basis. The project will be useful in addressing in-service training for practitioners of the Indian Health Service and also for those who serve the Navajo people to help them have a better understanding of the Navajo concepts of health and healing. Dr. Garrison described the understanding of the etiology as a difficult conceptual and philosophical hurdle.

Mrs. Martha Austin-Garrison, wife of Dr. Edward Garrison, concentrated on illnesses in the Navajo culture during the second half of the project presentation. Working on the original 10 volumes of the encyclopedia, Mrs. Garrison shared her knowledge of Navajo legend and some of the stories that have been collected. These stories include colored worlds, flammable weapons, monsters, and test challenges—a world where animals and insects were people, and contact with them bestowed certain illnesses and symptoms—a world of seasonal ceremonies that were arranged to communicate with the people about cures and where herbal sweat baths were used for cleansing—a world where respiratory illness may be caused by burning wood that came from a lightning-struck tree. Much of this knowledge is in the Encyclopedia transcriptions and written with numbers that represent the Navajo fonts. The Garrisons have conducted over 300 interviews, including direct interviews, which have been put on a spreadsheet that includes a disease and illness legend. Mrs. Garrison teaches Navajo language and culture as well as medical terminology in Navajo and uses the encyclopedia transcriptions and interview data in her teachings.

VIII. Social Determinants for U.S.-Mexico Border Health

Dr. Hector Balcázar, professor and regional dean, University of Texas School of Public Health, presented members with a contextual environment while he addressed health disparities on the border. The concept of the social justice approach on the U.S.-Mexico border, including theory development and actions for addressing health disparities was identified. The advantage of a conceptual framework was also introduced.

The border region was described as having many Hispanic communities that are intertwined and as moving into other parts of the United States. Many issues and problems exist when people live outside the border and affect health care services. Some of these problems include family fragmentation and structural barriers, access utilization, and culture-based decisions. Health conditions and disparities along the border include obesity, chronic and infectious diseases, including tuberculosis and HIV. In reference to conceptual framework, there is a need to develop both public and nonpublic medical health frameworks based on education, transportation, and many other components that are affected by the disparities. History and culture play a significant role in understanding the complex factors of framework development, as well as the systems to be implemented and adapted. Supporting community prioritization of resources, goals, and assets is a fundamental tenant of social justice framework.

Dr. Balcázar concluded that innovation to eliminating health disparities, increase equity and social justice is nested in the process of priority setting so that researchers can look at the culture, history, and the people and begin framing the processes that really speak to them.

IX. El Paso County Health Fact Book

Dr. Victor Cardenas, associate professor, University of Texas School of Public Health, El Paso Regional Campus, shared with the EnHIP members his experience and collaboration on fact gathering with local and public agencies. A coalition was described that puts facts on the table in order to provide a springboard for priority setting based on existing data. This data does not pertain to research but to data collection that is available and analyzed on a local level, specifically with the Texas State Health Department and the El Paso City Health Department.

Dr. Cardenas stressed that the translation of data into actionable, useful information and how this data affects health hazards is important. Much of the local data, such as rates of unemployment, mortality, morbidity and population as well as the geography of the region was reviewed with the members. Some of this information included:

- The population of El Paso is about 740,000.
- The minimum income is below that of the state of Texas and the U.S.
- The population is 82% Hispanic with limited English proficiency and is uneducated.
- The U.S.-Mexico border has a huge amount of crossings, with about 6.9 million people going north and about the same amount going south.

Dr. Cardenas discussed the significant pollution problem in El Paso and referred to maps from the U.S. Environmental Protection Agency Web site that indicate activities around UTEP and referenced actions to remove contaminated soil. Health data represented risk levels and the prevalence of disease findings, including diabetes and chronic conditions due to infection, cervical and stomach cancer, and epilepsy due to a high prevalence of tapeworm infection. In addition, nearly 3000 cases of the influenza H1N1 in Texas have been confirmed. This data illustrates the importance of closing the gap in health disparities on the border.

X. Mexican Cartels and the Drug War

Dr. Howard Campbell, professor of cultural anthropology, UTEP, discussed the significance of drugs and violence in the U.S.-Mexico border region. He spoke of the role the cartels play in drug violence and what we can do in the U.S. to cope with this problem.

There are several cartels in Mexico, with the most powerful one located in the El Paso/Juarez region, and these powerful organizations are also spread throughout the U.S. The cartels are large, very powerful organizations and are similar in many ways to legitimate corporations with hundreds, even thousands, of members. They are very well organized, illegal, and not run in any democratic manner but in a very personalized authoritarian and violent one. The cartel structure is very complex with multiple levels. He outlined the criminal factors and affiliations with paramilitary organizations, drug trafficking, kidnapping, murder and described one cartel that lives by its own bible.

Dr. Campbell suggested that the best way to attack the problem of drug violence would be for the U.S. to cut down its drug consumption thus improving the quality of life, the economy, and health. There is a need to stop the “iron river of guns,” flowing from the U.S. to Mexico—90 percent of the guns come from the U.S.

XI. Public Health Without Borders

Dr. Maria T. Cerqueira, Pan American Health Organization (PAHO) chief, U.S.-Mexico Border Field Office, El Paso, Texas, gave an overview of PAHO and its activities on the border. PAHO is an organization that serves as the regional office of the World Health Organization (WHO) and works with all the countries of the Americas to improve the health and quality of life of their people. The U.S.-Mexico Border Field Office facilitates and promotes border collaboration with public as well as private entities involved in improving the health of the population at the border.

A two-volume PAHO publication, *Health in the Americas*, includes a chapter on the U.S.-Mexico border. Other publication milestones were discussed as well. Statistics of the El Paso area were shared with the members along with the heavy institutional presence along the U.S.-Mexico border region. Many of the inequity and disparity challenges in the area were discussed. PAHO provided three CD publications to the members:

- Health Building, Influenza, Promotion Capacity
- Global Pandemic Preparedness
- United States-Mexico Border Office Electronic Publications

Dr. Cerqueira described several programs, including The Health Agenda of the Americas, which looks closely at the health priorities of each national program. Coalitions and collaborations that address issues such as the indigenous population and environmental and housing issues were acknowledged. Programs, projects and activities of the organization, including training, equipment, computers, and programs of SharePoint as well as virtual meetings were outlined. A global policy network with the World Health Organization (WHO) and PAHO that would allow

researchers and policy members to bridge knowledge and research was also discussed with the members.

In addition, Dr. Cerqueira gave a brief overview of a pandemic in terms of phases and case numbers and cited that PAHO has provided much training with various materials on this subject.

XII. Environmental Health at the U.S.-Mexico Border

Dr. Nick Pingitore, adjunct professor, School of Nursing, UTEP, gave an overview of his environmental health research in the border region. His associate, Dr. Marie Amaya, was unable to attend the meeting.

Traditional activities often associated with a culture may negatively affect current populations. Dr. Pingitore shared a 1909 map and pointed out that the El Paso area was a transportation center and a smelting city with three smelting centers, one of which was in operation for 120 years. In addition, a summary of the examination and study of thousands of products in Mexico—ranging from dishes to candy wrappers—that contain lead were examined. His projects also looked at lead and toxic metals in the soil throughout the area that involved a lot of community activity. News coverage by the *New York Times* aided in the dissemination of their research. The old parts of El Paso as well as Juarez were indicated as having concentrated areas of lead contamination in the soil and blood samples of children were examined which determined elevated concentrations of lead in certain areas.

Highlights of the Arch program, which was an asthma and air quality study of the El Paso area were presented. UTEP provided the team with a mobile laboratory that allowed them to do blood samples and mouth swabs and use barometry. There were 12 locations in El Paso selected to collect particulate matter through air filters. Lungs are the ultimate filter, as was indicated by the discovery of a very high incidence of asthma in El Paso. The program used new technology with the air samples (in which air is taken and deposited on rotating drums) and also used radiating light sources that yielded high-energy X-rays and allowed them to look at the environmental samples and study them at the atomic level.

Dr. Pingitore's research attributed legacy lead found in the soil as having come from 70 years of lead gasoline usage and not from industry. He suggested that this information likely proves that in order to lower lead in the air, the contaminated soil issue would have to be addressed.

XIII. Overview of the La Fe Clinic

Mr. Robert Gonzáles, chief operating officer, La Fe Clinic, El Paso, Texas, welcomed the EnHIP members and guests to La Fe Clinic, located in south El Paso. He presented an overview of the clinic and addressed the direction of its growth. The La Fe Clinic started 42 years ago in a low-income El Paso neighborhood with a group of mostly Hispanic single working mothers who felt a need for health care in the area. Thus, the first clinic was established and began providing services, such as nutritional counseling, social services, family planning, health education, mental health counseling, and transportation assistance for El Paso County.

The clinic's vision does not only involve health care but education as well. In 1974, the clinic received its first federal funds, which allowed it to expand to seven clinics (including a pediatric clinic, dental clinic, and pharmacy) and the cultural and technology center, 22 outreach offices, a commercial print shop, a kitchen, and a new charter school. Mr. Gonzáles reported on the successful growth of the clinic in the past 15 years from 1 clinic and 67 employees to 22 sites and 400 employees, with a 23 million dollar budget.

The partnership between La Fe Clinic and UTEP played an instrumental part in the success of the clinic. The clinic is a federally qualified health center and a socio-justice organization. In conclusion, Gonzáles shared the clinic's goal of obtaining total wellness of the community through education, environment, housing, and economic development. Following the overview, Mr. Gonzáles led the group on a tour of the clinic.

While the EnHIP members were visiting the clinic, journalists from the local KFOX 14 station joined the group and provided media coverage of the visit.

XIV. National Network of Libraries of Medicine, South Central Region

Ms. Michelle Malizia, associate director, National Network of Libraries of Medicine (NN/LM) South Central Region (SCR), from the Houston, Texas, office, began the second day of the EnHIP session held on July 1 by giving an overview of the NN/LM and the services offered.

Eight regions located around the country were established to provide more local access to the communities. The South Central Region, which Ms. Malizia represented, includes not only Texas but also Arkansas, Louisiana, New Mexico, and Oklahoma. Ms. Malizia described the various types of institutions, groups, and individuals that make up the 5000 members of NN/LM which include:

- Medical libraries
- Academic institutions
- Health departments
- Health care facilities
- Public libraries
- Hospital libraries
- Community-based organizations

The NN/LM mission provides people with access to health information at the level they need and listed the NN/LM Web site (<http://nlnm.gov>) as the access point to local resources and online training. Links to health-related databases and resources, including PubMed[®], MedlinePlus[®], and Go Local, are also available on this Web site. Regional Web pages were developed to feature health alerts, emergency preparedness announcements, event calendars, and much more. Outreach services offered by the NN/LM include the following:

- Workshops on health information literacy
- Exhibits and conference presentations

- Funding for health information outreach programs, including training and assessment as well as technology-related services such as connectivity and equipment
- Free promotional items
- Document delivery assistance
- Health information services

XV. Sharing Information and Knowledge Through the U.S.-Mexico Border Virtual Health Library

Ms. Lorely Ambriz, librarian, U.S.-Mexico Border Office, PAHO (Pan American Health Organization), gave an overview of the Virtual Health Library (VHL) initiative and discussed knowledge management, communication, and information dissemination within PAHO and the U.S.-Mexico border. PAHO's Knowledge Management and Communication Model for Technical Cooperation was presented and encompasses the application, development, and sharing of knowledge. The VHL represents the expansion of PAHO's technical cooperation model and is one of the most advanced models of information and knowledge management guided by PAHO. The first collaborative effort to make border health information available worldwide has resulted in a special section of the VHL being devoted to U.S.-Mexico border health. The searchable bilingual site (<http://www.borderinfo.org>) offers access to electronic journals, forums, and events as well as a directory of public health institutions and specialists.

The VHL takes into consideration different scenarios and players to promote the production and decentralized operation of a network of sources of scientific and technical information, with direct and universal access to the Internet, without geographic or time limitations, compliant with quality controls.

As a knowledge management model, the Virtual Health Library enables individual and collective actions to be based on updated information, thus promoting higher interaction among individuals and participation in the decision-making process. The trilingual and structured vocabulary, DeCS Health Science Descriptors, were created by BIREME (Biblioteca Regional de Medicina), a PAHO Specialized Center established in Brazil for use in indexing articles from scientific journals, books, Congress proceedings, and technical reports as well as for searching and retrieving subjects from scientific literature in LILACS (Latin American and Caribbean System on Health Sciences Information), MEDLINE®, and other databases. There are 120 thematic, global, and national VHL portals available where users can access information on subjects such as the H1N1 influenza. A number of higher education institutions, international organizations, professional associations and other programs along the U.S.-Mexico border states produce this knowledge.

Development of the Border VHL was discussed and outlined to include the PAHO/WHO Cooperating Centers Reunion in 2000 and the subject of capacity building in 2009. There are many collaborating institutions and political support is evident with active participation of the Advisory Committee. Database flow charts were shared, networks were described and promotion materials were presented. PAHO/WHO CD-ROMS were distributed to members of the meeting.

Ms. Ambriz concluded her presentation with a quote from *The Lancet*: “Once access to health research and information is commonly available and translated into new knowledge, we will see the developing world emerge ever more strongly as a producer of scientific and health knowledge to the benefit of all.”

XVI. EnHIP Outreach Awards Presentations

Representatives from five EnHIP colleges and universities gave progress reports on the projects for which they had received EnHIP awards. For a summary of all thirteen of the 2009 awards, see Appendix F.

Howard University, Washington, D.C.

Consumer Genetics Education Network Project

Presented by: Dr. Robert Copeland, Jr.

Dr. Robert Copeland, Jr., associate professor, Department of Pharmacology, Howard University, gave an overview of the Consumer Genetics Education Network project. He introduced the project goals and objectives. The goals are to improve the genetic literacy of African Americans in the Metro Washington, D.C., area and to facilitate their active participation in efforts to promote health and eliminate disparities. The objectives are to increase genetic literacy in African-American communities, promote lifestyle changes to reduce genetically based health risks, and engage African Americans and other people of color in an ongoing dialogue about human genome research, its associated implications, and the role of genomics in the elimination of health disparities.

Dr. Copeland discussed the key steps used in the development of culturally competent and linguistically appropriate genetics education materials. Participants in the workshops received a packet of materials and follow-up pledge assessments. The following project conclusions were noted:

- Community participation can lead to development of genetics education resources that are acceptable and appealing to the African-American community.
- Genetics education materials that are colorful, are written in simple terms, and use pictures that are relevant to the information and representative of both genders are maximally appealing to this community.
- Increasing access to culturally appropriate and engaging education materials promises to increase genetic literacy and documentation of family health history.

Medgar Evers College, New York, New York

Medgar Evers College Genomics Education and Outreach Program (GenEOP)

Presented by: Dr. Doris Withers

Dr. Doris Withers, EdD, Medgar Evers College (MEC), presented an overview of the Medgar Evers College Genomics Education and Outreach Program (GenEOP). The goal of GenEOP is to

promote the mission of the college through education and dissemination of information about genomics, the human genome, and related issues that affect and are relevant to the African-American and Brooklyn communities. The project's objectives are as follows:

- To promote student interest, study, and preparation for related genomic science careers and advanced study.
- To increase knowledge about the relationship of the human genome and environment (lifestyle) to health promotion and disease diagnosis, treatment, and prevention.
- To promote greater understanding about the relationship of the human genome findings to issues and concepts of race and human variation.
- To increase knowledge about the ethical, legal, and social issues related to genetics and genetic technologies.
- To promote scientific/genetic literacy (informed genetic citizenship) between the college and community.

Presentation of GenEOP's program was shared and included activities and events from the Brooklyn Public Library. The African American Diaspora Diversity Project was highlighted as an educational and research initiative of the Medgar Evars College (MEC Genomics Education and Outreach Program). This program was supported by the Office of the President, MEC, and the community; NLM EnHIP; the Collegiate Science and Technology Entry Program (CSTEP); and the National Geographic Genographic Project (NGGP) and involved determination of deep maternal (mitochondrial) and paternal (Y chromosome) ancestry through DNA analysis and interfaces with NGGP. The NGGP is a unique five-year international study that began in 2005 and partners with the National Geographic Society, IBM, and the Waitt Family Foundation.

By examining DNA patterns that are inherited maternally or paternally, scientists can trace human lineages back to the original branches; sons and daughters of a genetic Adam and Eve. Components of a DNA sample, including where to obtain results and track progress from the Internet (www.nationalgeographic.com/genographic) were explained. Many charts that depicted data such as migration patterns of early humans and mitochondrial DNA "halo groups" of the world were presented.

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

Environmental Health Information

Presented by: Dr. Diógenes Herreño-Sáenz

Dr. Diógenes Herreño-Sáenz, associate professor, Department of Pharmacology and Toxicology, School of Medicine, presented the University of Puerto Rico (UPR) Medical Sciences Campus, Outreach Project in Environmental Health Information. He described the UPR and its 11 campuses, totaling 63,000 students. The Medical Sciences Campus (RCM) includes schools of medicine, dentistry, pharmacy, public health, health professions, and nursing. Presented were activities such as:

- Workshops for graduate students of basic sciences of the School of Medicine with the effective use of NLM's environmental health and toxicology information services.

- ASPIRA’s Community Allies for Smart Access program that serves at-risk students and school dropouts.
- Workshops for middle and high school teachers and school librarians in environmental searching, using the NLM Web resources and other environmental databases.
- Workshops using the NLM’s Environmental Health and Toxicology Data Network (TOXNET) resources by faculty of science departments at the University of Turabo, Central University of Bayamón, and Universidad Metropolitana de Puerto Rico.

Hampton University, Hampton, Virginia
Community Outreach Health Literacy Initiative
Presented by: Dr. Pamela Hammond

Dr. Pamela Hammond, dean, School of Nursing, Hampton University, submitted a presentation on the Community Outreach Health Literacy Initiative (COHLI), which was awarded to School of Nursing faculty members Ms. Linda G. Brown and Dr. Barbara Harrison. The project goal was to develop a patient-based research infrastructure to support a health literacy project among health disparity populations in southeast Virginia. The primary focus areas included diabetes, hypertension, kidney disease, and disaster preparedness.

A pilot questionnaire was completed by 245 of 451 (54.3%) participants from five faith-based institutions. The results of the pilot project reflected the following:

	% Agreement	Number
Usefulness of educational information	81.6	200
Effectiveness of project staff	92.6	227
Effectiveness of educational information	73.9	181
Program expectations	86.1	211

Health promotion educational activities related to health literacy, common chronic medical conditions, and disaster preparedness were presented at various faith-based and community-based programs throughout the 2008/09 academic year. Highlights of the program included the following:

- Health education and disaster preparedness from the COHLI project were added to the existing health information on the School of Nursing Health Mobile and made available for client access at every site visit, including twice weekly at local homeless shelters.
- Health literacy and common medical condition resources were shared with over 200 persons at the National Project Homeless Connect event held in Norfolk, Virginia, in February 2009, as part of their medical screenings.
- Health promotion and disaster preparedness information was presented at Hampton University’s 31st Annual Conference on the Black Family, held on March 18-20, 2009.

Over 130 persons were able to access and receive individual information on disaster preparedness, see a prepared disaster supply kit, and select health information on various medical conditions.

- The principal investigators participated in blood pressure screening, sponsored by the Health Ministry at Morning Star Baptist Church on April 19, 2009 and at the Peninsula Institute of Community Health on April 30, 2009, administered to 70 participants at both sites.
- Health promotion and disaster preparedness information was presented on May 28, 2009 at the Hampton University School of Nursing's Summer Ph.D. Residency Program to a national audience.
- COHLI health promotion and disaster preparedness information was presented on June 4, 2009 to 55 participants at the Woman's Health Initiative program sponsored by New Life Worship Center.

Florida A&M University, Tallahassee, Florida

Development of a Model Pharmacy Curriculum for Disaster Preparedness

Presented by: Dr. Henry Lewis, III

Dr. Henry Lewis, III, dean, College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, submitted a presentation describing an emergency management and disaster preparedness course for pharmacy students. This curriculum can be replicated at all 112 schools/colleges of pharmacy across the country. The purpose of this project was to develop a model course syllabus for the preparation of pharmacists and the utilization of pharmacies during times of emergencies and disasters.

This model course offers aid to 112 pharmacy schools, 110,000 pharmacy students, and 275,000 pharmacists during an emergency. With more than 20 million people visiting community pharmacies each day, pharmacists are in a pivotal position to offer health and information outreach services in times of disasters. Model university curricula included Louisiana State

University, Arizona State University, Arkansas State University, Northern Illinois University, and Tulane University.

Guidelines on the role of pharmacists in disaster preparedness were provided by the American Public Health Association and the American Society of Health-System Pharmacists. Project outcomes/recommendations included:

- Pharmacists were added to the State of Florida Emergency Management Team.
- Disaster Preparedness Residency Program for pharmacists, funded by the State Department of Health.
- Article submitted to the Journal for Pharmaceutical Education.

XVII. Closing Remarks and Discussion

Dr. Steven Phillips, associate director, NLM, thanked UTEP for hosting the meeting and the members for attending. He expressed his appreciation for consistent, informative, and diverse information and encouraged institutions to explore discussions of joint projects and online posting of dissertations and publications.

Dr. Lewis opened the floor for comments on the meeting as well as recommendations, visions, and areas of improvement relative to EnHIP. Topics of discussion included:

- The valuable experience these meetings present, including the ability to interact with colleagues from around the country.
- The idea of more networking by respective institutions, providing access to database linking, online theses, and possibly CD-ROM distribution.
- A more direct link to the centralized brief institutional histories facilitating partnerships and capacity building as well as perhaps a “virtual facebook”
- available to EnHIP members that would enhance the current information available on EnHIP’s Web site.
- Production of an EnHIP brochure that would include member institution histories.
- Update of EnHIP’s Web site to include a link to member publications.
- The ability for EnHIP members to access stimulus funding and a request that NLM make funded dollars available to EnHIP institutions for quality projects.
- Opportunity for EnHIP to make presentations at the annual White House meetings concerning the HBCU, Tribal and Hispanic initiatives in order to raise the level of validity of those respective groups.
- Production of proceeding DVDs for presentation delivery and distribution.
- A pre-produced EnHIP PowerPoint presentation to be used as a medium made available for presenters.
- Request funding for access to full text articles and journals, both current and historical, and explore the ability for NIH to provide access to these documents to student bodies and EnHIP members.
- Discussion of the large spiritual gatherings that focus on indigenous health, concepts, and traditional healing, including the current gathering in Hawaii.
- Discussion of how EnHIP can provide assistance and services to minority disabled veterans and successfully market such assistance, and how to access funds to facilitate these services.
- The possibility that NLM could assist members with providing enhanced health literacy training in the community, beginning with the secular school system forward to senior citizens (also recommended was the benefit of an evaluation across communities and universities to determine the impact of previous health literacy projects).

Dr. Lewis also led a discussion for possible venues for the next off-site EnHIP meeting in the spring. Locations for consideration included the Oak Ridge Institute for Science and Education facility and the Oak Ridge National Laboratory, both located in Oak Ridge, Tennessee, and

colleges and universities in the gulf area such as Xavier University in New Orleans, Texas Southern University in Houston, or California State University, Northridge.

XVIII. UTEP Library Tour and Presentation

The afternoon of July 1st, the final day of the EnHIP meeting, the UTEP Library Associate Vice President Robert Stakes provided a brief tour of the library facility, including the Collaborative Learning Center, Instructional Classrooms, and Special Collections. This was followed by a brief PowerPoint presentation given by Ms. Kristin Sánchez, health sciences librarian.

The presentation provided information on the facility itself, the reference department, and the Collaborative Learning Center as well as the Del Norte Biosciences Consortium, which allows interlibrary loan and reciprocal copying services for health professionals in the El Paso regional area. Additionally, some of the library's special collections were highlighted, such as historical books on medicine, nursing, and nursing education. However, most notable are the special collections that underscore the area's history and culture. Some of these collections include:

- The Chicano Collection, materials on Mexican-American history and culture.
- The S.L.A. Marshall Military History Collection, based around the book collection of military historian, S.L.A. Marshall.
- The Southwest and Border Studies Collection, which was started with books donated from John H. McNeeley, Division of Colleges and Professional Schools, Office of Education, U.S. Department of the Interior.
- The Western Fiction Collection, created and developed by writer and English professor C. L. Sonnichsen during his lifelong study of Southwest literature and history.

In addition, Ms. Sánchez gave a brief overview of her duties as a health sciences librarian. She emphasized her role in supporting the faculty, staff, students, and community as a whole. Specifically, she provides subject consultation and bibliographic instruction and helps in the collections development.

Following the tour and presentation, the participants were lead onto the library terrace (sixth floor) to view the construction of the new Health Sciences/School of Nursing facility.

XIX. El Paso Cultural Tour

Later in the afternoon, after the tour of the UTEP Library, the EnHIP members were invited to take a tour of El Paso's historic Mission Trail on the east side of the city. Three churches and one museum were visited: Ysleta Mission, Socorro Mission, San Elizario Chapel, and Tigua Cultural Center Museum.

The excursion to the Mission Trail required the group to travel next to the Rio Grande, which serves as the dividing line between the U.S. and Mexico. This provided an opportunity to get a

close-up view of the impressive and seemingly impenetrable border wall being built to separate the two countries. The U.S. Border Patrol was stationed every quarter mile along the border wall with mega-sized floodlights, which illuminate the wall and surrounding area. There were three border-crossing stations providing legal points of entry between the U.S. and Mexico.

The tour showed how a rich blend of the Spanish, Mexican, and American cultures came together on the El Paso Mission Trail. This trail is a mere nine miles and encompasses three churches: Ysleta, Socorro, and San Elizario, all owned by the Catholic Church and still active.

The first church, the Ysleta, is the oldest of the mission churches and was established by the Franciscan Friars in 1680. Reconstruction is being done by the local Tigua Pueblo parishioners, the oldest active parish in Texas. The Socorro, the second mission church, also established by the Franciscan Friars, served alongside Ysleta as a refuge for those fleeing the conflict between the Spanish and the local native tribes. This church was originally built in 1691.

The last mission visited was the San Elizario Chapel, built in 1789 to serve the religious needs of the Spanish presidio (military fort) located just south of Socorro Mission. Once Mexico had declared its independence from Spain, the military forts became less important; however, the chapel continued to serve the community.

Due to the destructive nature of the Rio Grande, each church has had its share of reconstruction and even relocation over time due to flooding. Fortunately, each time the structures had to be reconstructed, the communities banded together to save these beautiful historic churches that tied each community together. Today, all three churches are listed in the U.S. National Register of Historic Places.

The last stop of the tour was the Tigua Cultural Center Museum, showcasing artifacts that represent over 300 years of history and traditions of the Tigua Pueblo. Walking around the museum gives a sense of being taken on a journey back in time as well as traveling forward in time until you meet the Tigua Indian Tribe of today. It was interesting to note the subtle influences of the Spanish, the Mexican government, and finally the U.S. Government in the lives of the Tigan people.

APPENDICES

APPENDIX A

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP MEETING

June 29–July 1, 2009

DIRECTORY OF GUEST SPEAKERS

Ms. Lorely Ambriz

Librarian
U.S.-Mexico Border Office of PAHO
El Paso, TX 79912
Tel: (915) 845-5950
Fax: (915) 845-4361
E-mail: ambrizlo@fep.paho.org
Web site: www.fep.paho.org

Dr. Robert Anders

Dean, School of Nursing
The University of Texas at El Paso
1101 N. Campbell
El Paso, TX 79902
Tel: (915) 747-8217
Fax: (915) 747-8266
E-mail: rlanders@utep.edu
Web site: www.utep.edu

Mrs. Martha Austin-Garrison

Faculty, Center for Diné Studies
Diné College
P.O. Box 580
Shiprock, NM 87420
Tel: (505) 368-3650
Fax: Not given
E-mail: maustin@dinecollege.edu
Web site: www.dinecollege.edu

Dr. Hector Balcázar

Regional Dean, El Paso Regional Campus
UT School of Public Health at Houston
1101 N. Stanton, Suite 110
El Paso, TX 79902
Tel: (915) 747-8507
Fax: (915) 747-8512
E-mail: hector.g.balcazar@uth.tmc.edu
Web site: www.sph.uth.tmc.edu/elpaso/

Dr. Howard Campbell

Old Main Bldg., Room 108
The University of Texas at El Paso
El Paso, TX 79968
Tel: (915) 747-5740
Fax: (915) 747-5505
E-mail: hcampbel@utep.edu
Web site: www.utep.edu

Dr. Victor Cardenas

Associate Professor
UT School of Public Health at Houston
1101 N. Stanton, Suite 110
El Paso, TX 79902
Tel: (915) 747-8503
Fax: (915) 747-8512
E-mail: victor.cardenas@uth.tmc.edu
Web site: www.sph.uth.tmc.edu/elpaso/

APPENDIX A

Environmental Health Information Partnership—June 29 – July 1, 20098

Dr. Maria Cerqueira

Chief, U.S.-Mexico Border Field Office
Pan American Health Organization
El Paso, TX 79912
Tel: (915) 845-5950
Fax: (915) 845-4361
E-mail: cerqueim@fep.paho.org
Web site: www.fep.paho.org

Dr. Edward Garrison

Faculty
Diné College
P.O. Box 580
Shiprock, NM 87420
Tel: (505) 368-3583
Fax: Not given
E-mail: ergarrison@dinecollege.edu
Web site: www.dinecollege.edu

Mr. Chris López

Chief Editor
El Paso Times Newspaper
300 N. Campbell
El Paso, TX 79901
Tel: (915) 546-6149
Fax: (915) 546-6141
E-mail: cvlopez@elpasotimes.com
Web site: www.elpasotimes.com

Ms. Michelle Malizia

National Network of Libraries of Medicine
Houston Academy of Medicine—
Texas Medical Center Library
1133 John Freeman Blvd.
Houston, TX 77030
Tel: (713) 799-7880
Fax: (713) 799-7030
E-mail: michelle.malizia@exch.library.tmc.edu
Web site: nnlm-scr@exch.library.tmc.edu

Dr. Diana Natalicio

President, Professor
The University of Texas at El Paso
Administration Building, Suite 500
El Paso, TX 79968
Tel: (915) 747-5555
Fax: (915) 747-5069
E-mail: dnatalicio@utep.edu
Web site: www.utep.edu

Dr. Nicholas Pingitore

Adjunct Faculty, Geological Sciences
Geological Sciences, Room 101
The University of Texas at El Paso
El Paso, TX 79968
Tel: (915) 747-5754
Fax: (915) 747-5073
E-mail: npingitore@utep.edu
Web site: www.geo.utep.edu

Ms. Kristin Sánchez

Health Science Librarian
The University of Texas at El Paso
500 W. University Avenue
El Paso, TX 79968
Tel: (915) 747-5066
Fax: Not given
E-mail: gksanchez@utep.edu
Web site: libraryweb.utep.edu

Mr. Robert Stakes

Associate Vice President, Library
The University of Texas at El Paso
500 W. University Avenue
El Paso, TX 79968
Tel: (915) 747-5683
Fax: Not given
E-mail: rlstakes@utep.edu
Web site: libraryweb.utep.edu

APPENDIX B

Environmental Health Information Partnership Meeting—June 29 – July 1, 2009

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP MEETING

June 29–July 1, 2009

SPEAKER BIOGRAPHIES

Chris López is a native of Colorado, born and raised in Alamosa. He is also a veteran journalist with over 30 years of experience working for a variety of newspapers, including nine years at the *Pueblo Chieftain* and seven years at the *Denver Post*. He has worked for the country's top newspaper corporations, including Knight Ridder, Gannett, and MediaNews Group.

In addition to his newspaper background, Mr. López has extensive experience in public relations, marketing, and social media. Prior to his appointment with the *El Paso Times*, he worked as the communications and marketing director for the Denver 2008 Convention Host Committee. In that role, he was responsible for the communications and marketing strategies as Denver planned and hosted the 2008 Democratic National Convention.

In October 2008 he was named editor and vice president of *El Paso Times*. This marks his second appointment as the top editor of a newspaper. He was the executive editor and vice president of Contra Costa Newspapers, a suburban media company based in Walnut Creek, California, in the San Francisco Bay area.

Steven J. Phillips, MD, is the director of the Division of Specialized Information Services and associate director, NLM. He is currently leading the effort to establish a Disaster Information Management Research Center at the NLM. 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 cofounded 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.

Lorely Ambriz is a bilingual librarian, U.S.-Mexico Border Office, PAHO. Ms. Ambriz provides research, reports, manuals, and training materials in both Spanish and English. She also attends several conferences a month marketing the library's services. One of her primary responsibilities was creating the Border VHL Web site, which her supervisor calls a best practices model "for information dissemination and exchange among the many stakeholders in public health along the border."

Robert Anders, PhD, APRN, CS, CNAA, FAAN is the dean, School of Nursing, UTEP. In addition to directing the School of Nursing, Dr. Anders administers UTEP's Student Health Services, College of Health Sciences Simulation Laboratory, and the Texas State Funded Rural Nursing Initiative. He is certified as a clinical nurse specialist in psychiatric mental health nursing and in nursing administration. His research is primarily in health care disparities and the

APPENDIX B

Environmental Health Information Partnership—June 29–July 1, 2009

related quality of care issues. Dr. Anders is actively sought as a speaker and consultant, both nationally and internationally.

Martha A. Austin-Garrison is a professor and faculty member in the Center for Diné Studies, Diné College, Shiprock, New Mexico. Mrs. Austin-Garrison has been a faculty member of Diné College since 1983. Her educational background is in bilingual education—English and Navajo. She has worked on many research projects involving the Navajo language. Due to her skills and knowledge of the Navajo language, she has been asked to be a consultant by different universities, government agencies, and private organizations, including the U.S. Indian Health Services and Harvard University Medical College.

Beginning in 1976, she was named the project manager for the Navajo Ethno-Medical Encyclopedia Project. This project was made possible through a grant from the National Institute of Mental Health awarded to Northwestern University.

Hector Balcázar, PhD is the regional dean, UTEP School of Public Health, El Paso, regional campus professor, Health Promotion and Behavioral Sciences at The University of Texas School of Public Health, Houston, Texas.

Dr. Balcázar is a tenured professor and chair of the Department of Social and Behavioral Sciences, School of Public Health at University of North Texas Health Science Center at Fort Worth, Texas. He is also the director of the Center for Cross-Cultural and Community Health Research, Institute for Public Health Research at University of North Texas Health Science Center, Fort Worth.

- Dr. Balcázar is an elected member of the expert panel on Department of Health and Human Services Collection of Data on Race and Ethnicity for the National Academy of Sciences Committee on National Statistics and a member of the Scientific Associates Group of the Texas/WHO Collaborating Center for Cross-Cultural Research and Training on Mental Health and Psychosocial Factors in Health, Mexico-U.S. Border Health.

Howard Campbell, PhD is a professor of cultural anthropology, UTEP. Dr. Campbell is the author of five volumes about Mexico and a forthcoming book from University of Texas Press called *Drug War Zone: Frontline Dispatches from the Streets of El Paso and Juárez*. He has spent his academic career specializing in the indigenous cultures of Mexico, political movements and economy, border cultures, and the study of drug trafficking.

Victor Cardenas, MD, MPH, PhD is an associate professor, The University of Texas School of Public Health, El Paso Regional Campus. Dr. Cardenas is an expert in the study of the epidemiology of *Helicobacter pylori* infection and related diseases and of other gastrointestinal pathogens of relevance for the U.S.-Mexico border and elsewhere. During his career he has been honored with an Epidemiology Program Officer Honor Award in International Health by the Centers for Disease Control and Prevention and has received the Cesar Uribe Piedrahita Medal from the Ministry of Health, Republic of Columbia.

APPENDIX B

Environmental Health Information Partnership—June 29–July 1, 2009

Maria Cerqueira, PhD, is the chief, U.S.-Mexico Border Office of PAHO, El Paso, Texas. Dr. Cerqueira is the first woman chief to be named to this position. Her primary duty is to make an analysis of the health situation in the different countries of the American continents.

Additionally, she works to determine how the demographic transition and other social determinants for health represent challenges, which requires the actualization and modernization of the public health systems.

Edward R. Garrison, PhD, MPH is a faculty member in the School of Math, Science and Technology, Diné College, Shiprock, New Mexico. Dr. Garrison has taught biology and public health since joining the faculty of Diné College in 1983. His academic background includes degrees in biology, anthropology, and public health—a combination that he considers ideal for his work among the Navajo people. He has been the principal investigator for a variety of projects at Diné College, ranging from developmental cell biology laboratory research to academic curriculum projects that culminated in a complete associate of science degree program in public health. This degree program became part of the Diné College curriculum in 2004, and the overall program in public health extensively incorporates the Diné philosophy of education in the organization and content of the curriculum.

Michelle Malizia is a public health outreach coordinator, NN/LM, South Central Region, Houston Academy of Medicine—Texas Medical Center Library, Houston, Texas.

Ms. Malizia is responsible for identifying and providing information services to health care professionals in a five-state region as well as providing training and outreach for a variety of National Library of Medicine programs and services. She conducts workshops on a variety of topics, including locating health information on the Web, Web site usability, PubMed, TOXNET, and proposal writing. She received her master of arts in library and information science degree from the University of Arizona and has over seven years of experience as a medical librarian.

Diana Natalicio, PhD is the president, The University of Texas at El Paso. Dr. Natalicio, a Fulbright Scholar began her career as a faculty member at UTEP in 1971. On her way to the top, she has served as the chair of the Modern Languages Department, dean of Liberal Arts, and vice president for academic affairs.

In 1988 she was named president of UTEP, the first woman to hold that position. She has overseen the increase in the number of Hispanic graduates by aggressive recruiting efforts and encouragement while attending UTEP to help the student's academic success.

Under her leadership UTEP has become the only doctoral research university in the U.S. with a Mexican-American majority student population. The number of doctoral programs has grown from 1 to 13 during her presidency. Dr. Natalicio was named distinguished alumna in October 2006 by The Texas Exes, who honored her for her educational leadership and role in creating opportunities for Hispanics.

Nick Pingitore, PhD, is an adjunct faculty, School of Nursing, UTEP. Dr. Pingitore is an analytic and environmental geochemist whose main research thrust is an NIH grant to study the

APPENDIX B

Environmental Health Information Partnership—June 29–July 1, 2009

relationship of air quality to asthma in El Paso. Other current or recent projects include National Science Foundation support of synchrotron analysis of corals to determine site locations of the trace elements used to recreate temperature and chemical records of seawater in the recent past; and elemental analyses of air particulates, food, water, and soils in the El Paso-Juarez binational “metroplex.” Dr. Pingitore holds the rank of professor of geological sciences and is director of UTEP’s Electron Microprobe Laboratory. He has authored or coauthored some 75 scientific articles, has been project director of \$8,500,000 in research funding, and has been a co-investigator in another \$8,000,000 in grants.

APPENDIX C

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP DIRECTORY OF CURRENT REPRESENTATIVES 2008–2009

Dr. Henry Lewis, III, PharmD, Chairman

Dean, College of Pharmacy and Pharmaceutical Sciences
Florida A&M University, New Pharmacy Building, Room 353
1415 Pershing Street
Tallahassee, FL 32307
TEL: (850) 599-3301
FAX: (850) 599-3347
E-mail: henry.lewis@famuedu.edu

PARTICIPATING HISTORICALLY BLACK COLLEGES AND UNIVERSITIES, HISPANIC-SERVING INSTITUTIONS, AND TRIBAL COLLEGES

Bruce Allen, Jr., DrPH

Assistant Professor, Obstetrics/Gynecology
Charles Drew Univ. of Medicine & Science
1731 East 120th Street
Los Angeles, CA 90059
TEL: (323) 563-5872
FAX: (310) 566-7909
E-mail: brallen@cdrewu.edu

Ferlin Clark, EdM

President
Diné College
P.O. Box 126
Tsaile, AZ 86556
TEL: (928) 724-6670
FAX: (928) 724-3327
E-mail: fclark@dinecollege.edu

Robert L. Anders, PhD, APRN, CS, CNA, FAAN

Dean, School of Nursing
PI- Hispanic Health Disparities Research
Center
University of Texas at El Paso
1101 N. Campbell
El Paso, TX 79902
TEL: (915) 747-8217
FAX: (915) 747-8266
E-mail: rlanders@utep.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
FAX: (202) 806-4453
E-mail: rlcopeland@howard.edu

Ann Barbre, PhD

Professor of Pharmacy Administration
College of Pharmacy
Xavier University of Louisiana
1 Drexel Drive
New Orleans, LA 70125
TEL: (504) 520-7439
FAX: (504) 520-7930
E-mail: arbarbre@xula.edu

Pamela Hammond, PhD, RN, FAAN, ANEF

Dean, School of Nursing
Hampton University
110 Freeman Hall
Hampton, VA 23668
TEL: (757) 727-5654
FAX: (757) 727-5423
E-mail: pamela.hammond@hamptonu.edu

APPENDIX C

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

Thomas H. Hatfield, DrPH, REHS, DAAS

Professor and Chair
Department of Environmental and
Occupational Health
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330-8412
TEL: (818) 677-7476
FAX: (818) 677-7411
E-mail: thomas.hatfield@csun.edu

Cynthia L. Henderson, MILS, AHIP

Director, Library
Morehouse School of Medicine
720 Westview Drive SW
Atlanta, GA 30310
TEL: (404) 752-1531
FAX: (404) 752-1049
E-mail: chenderson@msm.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
FAX: (787) 282-0568
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
FAX: (334) 727-8177
E-mail: dholeman@tuskegee.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) 327-6862/6718
FAX: (615) 327-6568
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
FAX: (713) 313-1901
E-mail: mazique_jx@tsu.edu

Milton Morris, MPH, DAAS, CFSP

Director, Department of Environmental
Health Sciences
Benedict College
1600 Harden Street
Columbia, SC 29204
TEL: (803) 253-5415
FAX: (803) 253-5336
E-mail: morrism@benedict.edu

Joan Nelson, RN, MSN

Instructor, Chairperson
Nursing Department
Oglala Lakota College
P.O. Box 861
Pine Ridge, SD 57770
TEL: (605) 867-5856/7
FAX: (605) 867-5724
E-mail: jnelson@olc.edu

APPENDIX C

Environmental Health Information Partnership Meeting—June 29 – July 1, 2009

Jackie Pflaum, DNSc, RN

Associate Vice Provost for Health Programs
University of Alaska Anchorage
3211 Providence Drive
Anchorage, Alaska 99508
Tel: (907) 786-4574
Fax: (907) 786-4559
E-mail: afjsp@uaa.alaska.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
FAX: (225) 771-2641
E-mail: janetrami@suson.subr.edu

T. Joan Robinson, PhD

Provost/Vice President of Academic Affairs
Morgan State University
1700 E. Cold Spring Lane
Baltimore, MD 21251
TEL: (443) 885-3350
FAX: (443) 885-8289
E-mail: joan.robinson@morgan.edu

Paul 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
FAX: (601) 979-2341
E-mail: paul.b.tchounwou@jsums.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
FAX: (785) 832-6613
E-mail: dwildcat@haskell.edu

Doris Withers, EdD

Vice President for Assessment Planning &
Accountability
Medgar Evers College, CUNY
1650 Bedford Avenue
Brooklyn, NY 11225
TEL: (718) 270-5020
FAX: (718) 270-6918
E-mail: doris@mec.cuny.edu

NLM CONSULTANT

John Scott

President, Center for Public Service
Communications
3221 N. George Mason Dr.
Arlington, VA 22207-1836
TEL: (703) 536-5642
FAX: (703) 536-5652
E-mail: jcscott@cpssc.com

APPENDIX D

Environmental Health Information Partnership Meeting—June 29 – July 1, 2009

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP 2008–2009

EXECUTIVE COMMITTEE

Henry Lewis, III, PharmD
Chairman

Dean, College of Pharmacy and
Pharmaceutical Sciences
Florida A&M University
New Pharmacy Building, Room 353
1415 Pershing Street
Tel: (850) 599-3301
Fax: (850) 599-3347
E-mail: henry.lewis@famuedu

Steven Phillips, MD
Associate Director

Division of Specialized Information
Services
National Library of Medicine
6707 Democracy Blvd., Suite 510
Bethesda, MD 20892
Tel: (301) 496-3147
Fax: (301) 480-3537
E-mail: sphillip@mail.nlm.nih.gov

Gale Dutcher, MLS, MS
**Deputy Associate Director, Specialized
Information Services**
**Acting Chief, Outreach and Special
Populations Branch**

Division of Specialized Information
Services
National Library of Medicine
6707 Democracy Blvd., Suite 510
Bethesda, MD 20892
Tel: (301) 496-5082
Fax: (301) 480-3537
E-mail: dutcherg@mail.nlm.nih.gov

Cynthia Gaines, Project Officer
Division of Specialized Information
Services

National Library of Medicine
6707 Democracy Blvd., Suite 510
Bethesda, MD 20894
Tel: (301) 496-3669
Fax: (301) 480-3537
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
Fax: (301) 593-5059
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
Fax: (202) 806-4898
E-mail: bwalker@howard.edu

Rose Foster, Project Advisor

Medical Education 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
Fax: (865) 241-3851
E-mail: rose.foster@orise.orau.gov

APPENDIX E

Environmental Health Information Partnership— June 29–July 1, 2009

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP 2008–2009

ALTERNATE REPRESENTATIVES

Gail Orum-Alexander, PharmD

Dean, College of Science and Health
Charles Drew Univ. of Medicine & Science
1731 East 120th Street
Los Angeles, CA 90059-3051
Tel: (323) 563-5851
Fax: (323) 563-4923
E-mail: gailorum@cdrewu.edu

Donald Benn, PhD

Faculty, Math and Science Division
Diné College
P.O. Box 126
Tsaile, AZ 86556
Tel: (928) 724-6721
Fax: unknown
dbenn@dinecollege.edu

José Conde, 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
Fax: (787) 758-5206
E-mail: jconde@rcm.upr.edu

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

Professor
School of Nursing
Hampton University
Hampton, VA 23668
Tel: (757) 727-5780
Fax: (757) 727-5423
E-mail: bertha.davis@hamptonu.edu

Charles desBordes, PhD

Professor, Department of Biology
Medgar Evers College, CUNY
1150 Carroll Street
Brooklyn NY 11225
Tel: (718) 270-6207
Fax: (718) 270-6196
E-mail: desBordes@mec.cuny.edu

Joao Ferreira-Pinto, PhD

Associate Research Professor
Director of Research and Special Projects
College of Health Sciences
University of Texas at El Paso
1101 N. Campbell Street
El Paso, TX 79902
Tel: (915) 747-7295
Fax: (915) 747-7207
E-mail: joao@utep.edu

Jean Hampton, PhD

Associate Professor
Department of Health Sciences
Texas Southern University
3100 Cleburne Street
Houston, TX 77004
Tel: (713) 313-7377
Fax: unknown
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
Fax: (504) 520-7930
E-mail: kkennedy1@xula.edu

APPENDIX E

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

Allan Noonan, MD, MPH

Dean, School of Community Health
and Policy
Morgan State University
1700 East Cold Spring Lane
Baltimore, MD 21251
Tel: (443) 885-4012
Fax: (443) 885-8309
E-mail: allan.noonan@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
Fax: (601) 979-1537
E-mail: safiya.r.omari@jsums.edu

Samir Raychoudhury, PhD

Professor, Biology, Chemistry and
Environmental Health Sciences
Benedict College
1600 Harden Street
Columbia, SC 29204
Tel: (803) 705-4648
Fax: (803) 705-6637
E-mail: raychoudhury@benedict.edu

Deig Sandoval, PhD

Professor of Chemistry
Department of Math and Science
Oglala Lakota College
490 Three Mile Creek Road
Kyle, SD 57752
Tel: (605) 455-6132
Fax: (605) 455-2603
E-mail: dsandoval@olc.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
Fax: (202) 806-5784
E-mail: tsmith@howard.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
Fax: (818) 677-7411
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) 771-2472
Fax: (225) 771-2489
E-mail: cheryltaylor@suson.subr.edu

Mike Tosee

Acting Dean
College of Arts and Sciences
Haskell Indian Nations University
155 Indian Avenue
Lawrence, KS 66046-4800
Tel: (785) 832-8428
Fax: (785) 832-6613
E-mail: mtosee@haskell.edu

APPENDIX E

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

James Webster, PhD

Chairman
Department of Biomedical Sciences
School of Veterinary Medicine
Tuskegee University
Tuskegee, AL 36088
Tel: (334) 727-8469
Fax: (334) 727-8177
E-mail: websterj@tuskegee.edu

VACANT

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

VACANT

Morehouse School of Medicine
720 Westview Drive, S.W.
Atlanta, GA 30310-1714

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

ENVIRONMENTAL HEALTH INFORMATION PARTNERSHIP

EnHIP PROJECTS 2008–2009

Benedict College—Columbia, South Carolina

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

The Benedict College Environmental Health Association (BCEHA) consists of more than 40 campus-wide students whose goals include sharing information to improve campus-wide health and environmental awareness. This project is a continuation of previous work with this group of students, with the goal of increasing campus awareness regarding preventing or addressing health and environmental emergencies.

The project will be initially promoted by disseminating information within seminar courses that are required of all students on campus. Principal investigators will continue to routinely train BCEHA student members on the use of NLM databases with an emphasis on disaster/emergency preparedness. The students will develop attractive monthly flyers to inform the college about NLM database roles in preventing or preparing for health or environmental emergencies. The principal investigators/project administrators will then evaluate all student flyers. Students with accepted flyers will receive stipends and will be permitted to disseminate their flyers at locations that provide greatest campus-wide access and visibility. In addition, the co-principal investigator will continue to host one visiting scientist seminar that will provide a forum for increasing awareness on potential health and environmental disasters.

Charles Drew University of Medicine & Science, Department of Oral and Maxillofacial Surgery—Los Angeles, California

Environmental Health Outreach and Education Project

The goals of this project are to increase the awareness of NLM online resources related to the use of toxicological, environmental, occupational, and hazardous materials/waste at Drew University, Martin Luther King, Jr., Multi-Service Ambulatory Care Center, and other agencies serving the south Los Angeles area; to provide instruction in the use of NLM Web-based resources; and to enhance the use and the distribution of health-related information to the Drew University faculty, staff, and students, and the staff of other agencies serving the south Los Angeles area.

Training will be delivered to approximately 300 employees, professional staff, and students of Drew University and its affiliated training sites, and the staff and clients of other agencies serving the south Los Angeles area. Experts in the fields of toxicology, environmental health, and informational and instructional technology will provide the training, which will focus on the scientific literature in the fields of medicine, nursing, dentistry, and health care systems; TOXNET for information on toxicological profiles on hazardous chemicals that cause health and environmental effects; Haz-Map for specific information about the possible effects of exposure to chemicals and biological agents; and Tox Town for information on common toxic substances encountered in everyday life.

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

Diné College—Shiprock, New Mexico

Navajo Ethno-Medical Encyclopedia Project (NEME)

NEME was envisioned as a 10-volume compendium and repository of traditional Navajo Indian medical and healing knowledge accumulated over many centuries. This project, which was begun in the 1970s and suspended in 1981 due to a lack of funding, holds great significance to the Navajo People, as it provides the greatest hope for substantial preservation of a significant body of important cultural knowledge. The NLM funding will enable the conversion of original material, using modern optical scanning and optical character recognition technology, into modern word processing software and the creation of electronic files for permanent, accessible, and transferable storage.

This project is targeted to the Navajo People and clinical medical practitioners in the U.S. Indian Health Service and elsewhere, who regularly provide medical services to Navajos. Completion of the NEME will have a direct and substantial impact in enabling clinicians to become far more “culturally competent” for treatment of Navajo (and other Native American) patients and will thus have a direct impact on improvement in the quality of patient care for Native American patients.

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

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

Traditional practitioners of Navajo medicine include the *hatathlis*, who have extensive training in one or more healing ceremonies; diagnosticians, who by developing innate gifts can determine the cause of the problem and what kind of treatment to seek; and herbalists, who have developed the knowledge and understanding of herbs and how to use them. This project includes participation from all three types of practitioners for a comprehensive understanding of Navajo health conceptions.

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

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

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

Florida A& M University—Tallahassee, Florida

Development of a Model Pharmacy Curriculum for Disaster Preparedness

In this project, Florida A&M University is developing a model pharmacy curriculum for disaster preparedness that can be replicated at all 112 schools/colleges of pharmacy across the country. Over 20 million people visit a community pharmacy each day of the year, which places pharmacies and pharmacists in a pivotal position to be primary health and information outreach centers in times of disasters. The principal investigator will take a draft course plan to the mid-winter meeting of the American Association of Colleges of Pharmacy (AACP) in February 2009. A focus group of pharmacy faculty will be asked to review and critique the draft model course. Input from this focus group will then be utilized to shape the second draft of the model curriculum, which will be critiqued at the July 2009 AACP annual meeting. From that review, the final model curriculum will be developed.

The model course will be sent to deans and curriculum chairpersons at all 112 pharmacy schools/colleges in CD/ROM format, and an article on the preparation of the model will be submitted to the *American Journal on Pharmaceutical Education* for consideration for publication.

Hampton University—Hampton, Virginia

Community Outreach Health Literacy Initiative (COHLI)

The goal of the COHLI is to develop a patient-based research infrastructure at a historically black nursing school to support the research-related costs of increasing health literacy among health disparity populations in southeast Virginia. The objectives are to (1) enhance community involvement in research studies and clinical research trials, utilization of services, and adherence to lifestyle and behavioral changes, (2) develop, implement, and evaluate health promotion and disease prevention programs, including disaster preparedness, designed to increase health literacy across generations of populations who experience health disparities, and (3) disseminate health information to health care providers and the lay community on research-based interventions, health promotion/prevention programs, and behavior and lifestyle changes impacting populations who experience health disparities.

To achieve this goal, Hampton University School of Nursing will first form new partnerships with local churches to establish collaborative health education efforts and obtain informed consent from all participants. A questionnaire focused on demographic status, health history, and self-efficacy will be administered. The COHLI team will work with the health ministry members of the churches to provide forums and a series of workshops for public health information sharing. Health information will be disseminated in module format over a five-week period, each

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

session lasting approximately two hours, and will be considered a baseline focus group to qualitatively discern whether congregation concerns are applicable or parallel to the school's faculty research interests.

Howard University—Washington, D.C.

Consumer Genetics Education Network (CGEN) Project Workshops

The Howard CGEN project strives to improve the genetic literacy of the participant communities by integrating genetic research activities into the local and national communities of African-Americans and other people of color in order to facilitate their active participation in efforts to eliminate health disparities. The use of the NLM online resources will enhance the project by providing more educational resources for those who want to understand how their genetics and race play a role in their current health status. NLM database training in the form of workshops, one-half hour to two hours in length, will be provided to urban underserved minority populations to enhance their literacy and content knowledge of genetic and family health history concepts, increase their awareness of the importance of genetic and family health histories, and increase their skills to complete genetic-related tasks (e.g., family health history record).

Anticipated outcomes are to increase the genetic literacy of participants so they can make informed health and genetics-related decisions, increase access to and use of culturally appropriate programs, and promote lifestyle changes to reduce health risks.

Jackson State University—Jackson, Mississippi

Enhancing Biomedical and Environmental Health Research and Education Through Utilization of the NLM Web-based Resources

Jackson State University (JSU) continues to enhance environmental health and biomedical sciences research and education at JSU and around the world through the continued organization and implementation of a pre-symposium workshop in conjunction with its annual International Symposium on Recent Advances in Environmental Health Research. Past workshops have been overwhelmingly successful and have attracted more than 50 participants, including international participants. Major emphasis will be placed on navigating through the NLM Toxicology Data Network (TOXNET) databases and related resources. Other resources covered will be PubMed (to train participants on how to retrieve scientific literature in the fields of medicine, nursing, dentistry, veterinary medicine, health care systems, preclinical sciences, and biomedical sciences) and MedlinePlus for information on clinical trials, therapeutic drugs, medical news, directories, and dictionaries.

The target audience will include JSU's faculty and students who are involved in biomedical sciences and environmental health research, as well as students, faculty, and scientists from around the world who will be participating in the international symposium. It is anticipated that the continued implementation of this project will significantly enhance environmental health and biomedical research and education at JSU and at other institutions of higher learning in the U.S. and around the world.

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

Medgar Evers College, CUNY—Brooklyn, New York

Genomics Education & Outreach Program: DNA Ancestry Diversity Project & Health Promotion

The Medgar Evers College (MEC) Genomics Education & Outreach Program (GenEOP), begun in the fall of 2006 with support in part from the NLM, is currently conducting an educational and outreach initiative called the African Americas Diaspora Diversity Project (AADDP). The project involves determination of deep maternal and paternal ancestry through DNA analysis by the National Geographic Genographic Project (NGGP), a unique five-year international study begun in 2005 to understand the migratory history of the journey of humans out of Africa by analyzing DNA to determine deep maternal and paternal ancestry. GenEOP is a member of the educational network of NGGP. (For more information on the NGGP, visit the Web site at <https://www3.nationalgeographic.com/genographic/>.)

The objectives of the AADDP are to (1) encourage and recruit broad college and community members' participation in NGGP in order to learn their maternal or paternal ancestry, (2) promote multidisciplinary discussions and host seminars for the college and community about biology, human origins and migration, health, history, social implications, and cultural identity related to the African Diaspora in light of DNA ancestry findings, and (3) use the AADDP DNA findings to provide information and to promote education and understanding of the 21st century science of genetics/genomics (i.e., to promote genetic literacy among minority communities).

Current funding will be used for the development and delivery of a genetics and health information seminar on the relationship of human variation to health, environment, and family health history, incorporating online Internet resources from the NLM and including a discussion on the NGGP results of AADDP participants in relationship to human diversity and genetic variation and environment. AADDP participants include MEC students, faculty, staff, community members, and students from the MEC Preparatory School, a public school affiliated with MEC. Among the community members are members of the Brooklyn Chapter of the African Atlantic Genealogy Society.

Meharry Medical College—Nashville, Tennessee

Health Literacy Faith-based Network

This project builds on the Health Literacy Network Capacity among six local community churches in Nashville, Davidson County, Tennessee, developing faith-based collaborations with community-based public libraries that assist racial/ethnic minority communities in Nashville and Davidson County in accessing health information regarding prevention, early detection, disease management, and understanding the progression of chronic diseases. The focus activity will expand and build on existing health literacy information while identifying response information resources and services that will assist church communities in developing strategies for emergency and disaster preparedness.

Five learning sessions will be planned and held at each church in collaboration with the pastor and coordinator from each of the six churches and librarians from local public libraries and the

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

Meharry Medical College Science Library. The network of pastors and coordinators will meet quarterly to share information, listen to speakers, and organize future meeting times/activities and challenges to project implementation. Participating librarians will demonstrate various health literacy and disaster preparedness Web sites, and health care professionals from Meharry Medical College will speak to a collective church-based group of teens and interested adults about health issues and how to improve health outcomes from knowledge gained. Oral health, obesity, diabetes, hypertension, sexuality, and HIV/AIDS will be integrated into the computer searches. Librarians will focus on reducing barriers and obstacles that are present in populations that are not familiar with computers and the use of specialized software.

Morehouse School of Medicine—Atlanta, Georgia

Disaster and Emergency Planning Outreach Workshops at Three Atlanta Area High Schools

This project builds on the previous year's project by presenting workshops on disaster and emergency planning for high school students, faculty, and staff, with the goal of making participants aware of the need to prepare for a disaster by having a disaster plan. The three selected Atlanta high schools collectively serve a population of 3300, and the project has the potential of reaching at least 1000 individuals, including relatives. The Morehouse School of Medicine (MSM) already houses a Regional Coordinating Center for Hurricane Response and believes strongly in preparing people with the information they need to have in the event of a disaster or emergency.

Through a series of workshops to be held February through May 2009, MSM librarians will show participants where to go for disaster or emergency information, how to create a disaster or emergency plan, and how to share it with relatives not living with them. Promotional activities will include brochures, flyers, posters, e-mail, on-site demonstrations of NLM databases at each high school in a kickoff event, creation of resource manuals, and word of mouth.

Oglala Lakota College—Kyle, South Dakota

Taking Charge—Living Wisely (Ek'sabe'yah an unpi)—Phase V

In phase V of the project, Taking Charge—Living Wisely, the Department of Nursing of the Oglala Lakota College (OLC) will coordinate disaster activities for the college and participate in drills and meetings with other tribal organizations and other institutions on the reservation to increase the awareness of the importance of disaster preparedness. A secondary goal of the project is to increase student enrollment in the OLC Nursing Program.

As a result of project activities, each college center director and staff will be aware of disaster preparedness on the reservation and the role they will play should the need arise, students at the college centers and in the nursing program will be aware of disaster preparedness and the NLM databases, and all faculty and staff will be aware of disaster planning and drills. Secondary and college student contacts will be used for recruitment to the OLC Nursing Program.

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

Southern University A&M College—Baton Rouge, Louisiana

Life After Hurricane Katrina: Putting Lessons Learned into Publication: A Description of Post-Disaster Information Needs Among Displaced African American Women

On August 28, 2005, Hurricane Katrina ripped into the Gulf Coast. Within two days, New Orleans was mostly under water, and thousands of people were displaced. One of the most devastating aspects of the storm and flooding was the complete destruction of the New Orleans health care system and the strain on Baton Rouge hospitals and clinics. In 2006, Louisiana ranked sixth in “percentage of overall population not covered by health insurance” (*United Health Foundation, America’s Health Rankings; Morgan Quitno Press, State Rankings 2007; 2006 National Alliance on Mental Illness report; LSU; Louisiana Department of Health and Hospitals; October 2006 report to the Louisiana Legislature.*). A high number of residents without health insurance places stress on emergency medical services and hospital emergency rooms.

This project has two components, identifying post-disaster information needs of African-American women and writing post-disaster lessons learned for publication and dissemination. This investigator witnessed the disaster from four perspectives: as a displaced citizen, as a health professional and academician, as a community leader and first responder, and as a primary caregiver of elderly relatives.

The use of NLM databases will be included in all education resource incentives culturally tailored for African-American women.

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

Outreach in Environmental Health Information and Health Literacy Project 2008–2009

The goal of this project is to reduce the inequality in the access to information related to health among minority groups, communities in disadvantage, and health students as well as to increase the awareness of addressing health literacy among groups of students, librarians, school faculty, and community leaders. Training in the effective use of NLM online databases and resources (especially in environmental health) will be provided to the following groups:

- Graduate students admitted to the programs in pharmacy, nursing, and basic sciences (microbiology, anatomy, pharmacology and toxicology, biochemistry) and faculties of the Medical Sciences Campus.
- Students of the ASPIRA Association’s Alternative School (CASA—Spanish acronym for Help and Student Services Centers) in subjects related to health and environment that impact their lives (sexually transmitted diseases and HIV). CASA is a program that serves at-risk students and school dropouts.
- Middle and high school teachers, middle and high school students, and school librarians.
- Biology and premedical students at the University of Puerto Rico.
- Elderly members in the communities of Carolina, Mayagüez, and Ponce relative to health issues that affect the elderly community.

APPENDIX F

Environmental Health Information Partnership Meeting—June 29–July 1, 2009

- Groups of women who need access to women's health information available through the Internet. Health status of women is partly attributable to lack of literacy and information access about women's health. In order to use that information, women should be able to identify, retrieve, and understand it. The participants will identify women's health sites; distinguish between consumer health, professional, educational, and commercial sites; and retrieve information from diverse health sites, including MedlinePlus, PubMed, and 4women.gov, among other sites.