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In this issue:

Full disk encryption.....	2
BMI fellowship	3
New library resources.....	4

And much more!

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BIMONTHLY BULLETIN OF THE HEALTH SCIENCES LIBRARY AND INFORMATICS CENTER

From HSLIC's Executive Director

In March, I attended the Four Corners Directors "consortium," a meeting of the health sciences library directors of the Universities of Arizona, Colorado, New Mexico and Utah in Salt Lake City. We participated in a seminar, a "Research Life Cycle," which profiled VIVO, REDCap, DMP for the development of data management plans and eagle-i for inventory of research resources, as well as a campus forum on the patent process. We also discussed the University of Utah library's role with its Clinical and Translational Science Award (CTSA) program, including providing concierge service to researchers.

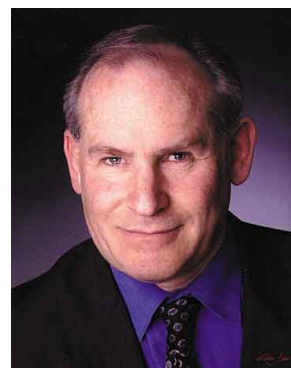


Those attending the meeting of the Four Corners Directors were, from left, Jean Pugh Shipman, University of Utah; Gary Freiburger, University of Arizona; Holly Buchanan, University of New Mexico; and Jerry Perry, University of Colorado.

Holly Shipp Buchanan, MLn, MBA, EdD, FMLA, AHIP
CIO, Administration and Academic Systems
Executive Director, HSLIC
Professor, School of Medicine

Jeff Blair joins adjunct faculty

We welcome Jeffrey S. Blair, who has joined HSLIC as an adjunct faculty member as a Lecturer 3. For 30 years, he worked in IBM's health care informatics programs. For 13 years, he served on the National Committee on Vital and Health Statistics. Jeff's bachelor's degree in management engineering is from Rensselaer Polytechnic Institute, and his MBA is from Northwestern University.



When Jeff retired from IBM in 1997, he and his wife, Nina Forrest, chose Albuquerque for retirement. After arriving, he joined LCF Research as the Director of Health Informatics. During his six years there, he played a key role in creating a highly lauded strategic and operational plan for the state health information exchange network.

He looks forward to working with HSLIC faculty and staff. "I am totally blind, so for me to be productive, I need to work very collaboratively," he says. "If I am in a meeting, I can't see if people have puzzled expressions or if they have a hand up to ask a question. So I will ask for help."

Jeff enjoys spending time with his and Nina's children and grandchildren.

HSLIC offers full disk encryption services for “data at rest”

Gayle Shipp, CISA—IT Security Analyst

Secret decoder rings, the Enigma machine, Navajo code talkers—these are all examples of data encryption methods. Encryption today includes standard business security services like public key encryption, Secure Socket Layers, encrypted files and encrypted devices. Data protection using encryption is particularly valuable for the Health Sciences Center, where there is a need to protect patient and other confidential data to meet regulatory requirements.

It is important to understand the difference between encryption of data at rest and data in transit. Encryption of data in transit ensures secure communication and is almost automatic when using a web browser. The most common usage is during web transactions with banks, web retailers and most account logins and is identified by web addresses with the “https” prefix. Encryption of data at rest is critical to securing data when a laptop or other mobile device is lost or stolen. With data at rest, the combination of encryption and the password used with the encryption secures data.

To provide protection for data at rest, HSLIC offers centrally managed full disk encryption services that manage

password compliance and recovery services, and protect data at rest in a manner that meets regulatory requirements. Encryption for data at rest ensures that the contents of a computer’s hard drive are rendered unreadable when the device is turned off. Currently, HSLIC provides centrally managed full disk encryption for PCs, which ensures recovery in case of password loss, although new operating systems and devices continue to be added to the central management tool.

Encrypting data at rest is customized to the device and operating system. Systems best suited to running the HSC full disk encryption solution are UNM-standard Dell laptops running Windows 7. Other operating systems are supported on a risk-based approach using encryption tools that require stand-alone procedures to ensure recovery as well as effective encryption. Mac users who must store patient information on the local drive will need to contact HSLIC to discuss the full range of versions supported and requirements necessary to successfully encrypt the Mac OS.

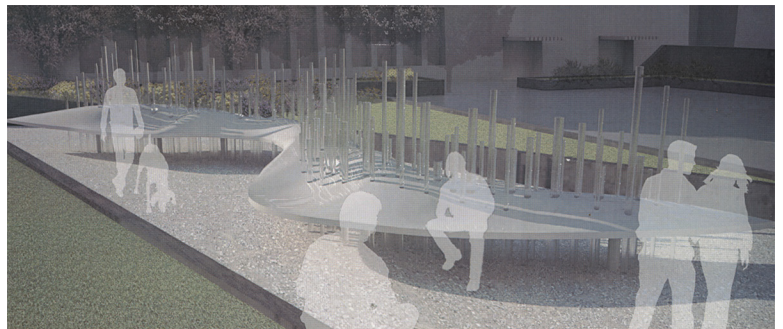
For information about HSLIC’s full disk encryption services, call the Service Point at (505) 272-1694.

Christine Williams wins sculpture design competition

Laura Hall, MFA—Manager, Special Collections

Beginning in July 2014, the UNM School of Medicine will be celebrating the 50th anniversary of its first entering medical student class. A landscape sculpture is being commissioned to celebrate the patients, students and faculty who compose our educational family.

The UNM School of Architecture and Planning conducted a statewide competition recently. From the 20-plus initial designs, three finalists were identified. Christine Williams, in association with Garrett Smith, Ltd., was selected as the winner with her design titled “The People’s Heartbeat.” Her landscape sculpture will be located at the south end of the HSC Canyon Garden within the Phil and Olga Eaton Sculpture Garden of Healing. The artist’s rendering at right shows what the sculpture will look like once it is installed. Laura Hall, MFA, HSLIC’s Manager, Special Collections, served as a juror for the design competition.



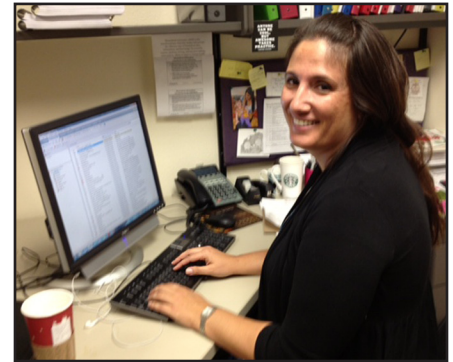
Philip Eaton, emeritus vice president of the UNM Health Sciences Center, for whom the Garden of Healing is named, said, “This memorial captures the imagination of children through grandparents in a comforting celebration of people and the human body. The landscape sculpture will be a destination for visitors of all ages throughout the years to come.”

Biomedical Informatics Fellowship Program recruiting next fellow

Phil Kroth, MD, MS—Director, Biomedical Informatics Research, Training & Scholarship

The Biomedical Informatics (BMI) Fellowship Program is now recruiting for its next fellow. Founded in 2005, the fellowship trains students with a terminal degree (e.g., MD, PhD) to become independently funded BMI investigators and academicians. The fellowship uses a competencies-based curriculum that is composed of the UNM Clinical and Translational Science Center's Master of Science in Clinical Research Curriculum, the Certificate Program in BMI from the Oregon Health and Sciences University, a mentored research project in BMI and curriculum elements provided through various educational experiences at UNM and at national scientific meetings.

HSLIC funds the fellowship and will partner with the appropriate clinical department if the candidate is a physician to maintain his or her clinical skills during the three years of the fellowship program. The fellowship includes a stipend, funding for the curriculum, travel to at least two scientific meetings per year and funding for basic research expenses. Complete information about the fellowship, including eligibility requirements and how to apply, is available at <http://hsc.unm.edu/library/biomedical-informatics/howtoapply.html>.



Shamsi Daneshvari, PhD, is the 2011–2014 fellow.

Kroth leads HSLIC's participation in Lobo Quality Improvement (LQIP)



Phil Kroth, MD, MS, has become an active participant in the UNM Health System's Lobo Quality Improvement Process (LQIP).

The University of New Mexico Health System's Lobo Quality Improvement Process (LQIP) has been under way for approximately two years now, and HSLIC's own Director of Biomedical Informatics Research, Training and Scholarship, Dr. Philip Kroth, has been an eager participant. Dr. Kroth is one of the Associate Chief Medical Information Officers for UNM Hospitals and has been supporting LQIP by participating in and supporting various Lean process improvement initiatives.

Lean is the continuous process improvement program developed by Toyota in the 1950s that has been adopted successfully by many health care organizations to improve the quality of health care and reduce its costs. Dr. Kroth, along with several other physicians and administrators from the Health System, traveled to Denver last December to attend Denver Health's Lean Academy. In the two-day session, participants learned how Denver Health successfully used the Lean process to save more than \$800 million over the past nine years while also having some of the highest-quality metrics of any health care provider in the United States.

Dr. Kroth participated in Lean sessions that resulted in improved computer hardware maintenance at the 1209 Clinic on University Blvd., improved electronic communication regarding patient prescription refill requests and, most recently, developed a standard process for all ambulatory clinics in the Health System. "I was very skeptical that Lean could produce real and meaningful results, but attending the Academy and seeing how Lean is already starting to work at UNM has changed my mind," Dr. Kroth says. "Using Lean can work, but it is not a quick or easy fix. It requires a lot of persistence and hard work, but the benefits can be substantial."

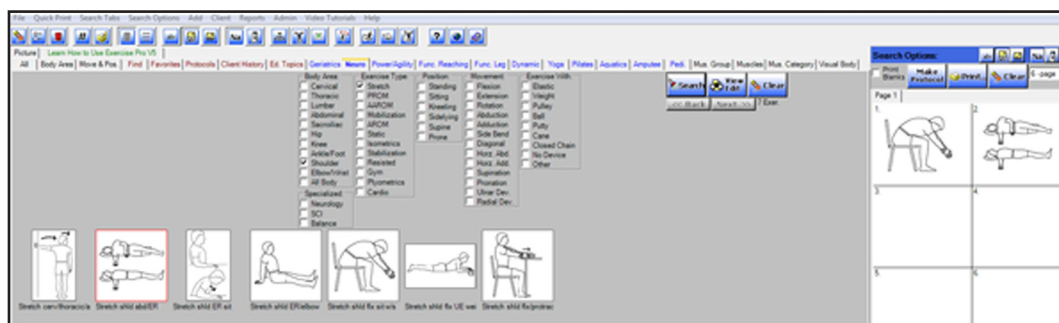
Dr. Kroth would like to see the Lean process used in HSC academic areas as well. "There is no reason I see that Lean could not be used to improve the quality of the education and training we deliver to HSC students and to try to reduce the costs of doing so."

HSLIC acquires new resources to serve patrons better

Exercise Pro software now available for students

Ingrid Hendrix, MILS, AHIP—Nursing Services Librarian

Laura Hall, MFA—Manager, Special Collections



A new resource has been added to the public computers in the library. HSLIC purchased the program, a database called Exercise Pro, to support the students in the Physical Therapy program, but any student interested in exercise therapy can use it. The database contains more than 3,200 unique exercises with instructions and illustrations.

This database of exercises is searchable by movement, position, equipment and more. Exercise Pro, and other programs like it, are used in the clinical setting and help physical therapists tailor an exercise regimen for patients. Having this program available for students is beneficial to their education. Because the program is hosted locally, it is accessible only at the library. It is currently loaded on the eight machines nearest the historical collections room but eventually will be accessible on all of the public computers. If you have questions about how to locate the program in HSLIC's public computing area, please inquire at the HSLIC Service Point.

HSLIC subscribes to eight new journals

Christee King, MLS—Collection Management Librarian

HSLIC now subscribes to the following journals, and access is provided to each journal for the years shown:

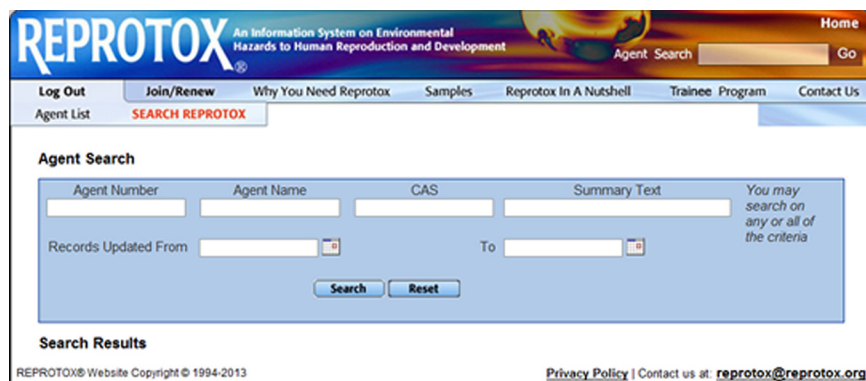
- *Academic Forensic Pathology*, 2011 – present
- *AORN Journal* (from the Association of periOperative Registered Nurses), 1999 – present
- *Cell Host & Microbe*, 2007 – present
- *Critical Public Health*, 1997 – present
- *Head & Neck*, 1996 – present
- *Hepatology*, 1996 – present
- *Journal of Surgical Oncology*, 1996 – present
- *Science Translational Medicine*, 2009 – present



HSLIC acquires new resources to serve patrons better *(continued)*

Reprotox® database now available

Dick Carr, MLS, AHIP—Coordinator, Reference & User Support Services



Upon the request of Obstetrics and Gynecology physicians, HSLIC has added Reprotox® to our database offerings. Reprotox® is a database of summaries of the effects of medications, chemicals, infections and physical agents on pregnancy, reproduction and development. It provides more detail than the FDA's A-B-C-D-X Pregnancy Risk Factor classifications. Reprotox® is produced by the Reproductive Toxicology Center.

The link to Reprotox® is on the HSLIC Databases page at <http://hsc.unm.edu/library/resources/databases.html>. Locate Reprotox® in the “R” section. On the opening page, click on the red “SEARCH REPROTOX” link to search by agent number, agent name (drug, disease, food, etc.), chemical abstract number or summary text.

Training video demos Natural Standard database

Sarah Morley, MLS—Clinical Services Librarian



A nine-minute training video that demonstrates the capabilities of the Natural Standard website is available at <http://www.naturalstandard.com/demo/>.

The demo offers a concise overview of the Natural Standard website, which features 10 databases, including “Foods, Herbs and Supplements” and “Medical Conditions”; checkers that allow users to check for interactions, depletions, adverse effects, symptoms and more; tools, including a therapy finder, recipes, products studied and more; continuing education; and news and events.

Natural Standard is an impartial resource that reports on the safety and efficacy of natural medicine. It is not supported by any interest group, professional organization or product manufacturer. HSLIC licenses Natural Standard based on the recommendation of the Dept. of Internal Medicine Section for Integrative Health.

Reminder: Student award nominations are due by March 31

HSLIC is seeking nominations from School of Medicine, College of Nursing and College of Pharmacy faculty for its student awards, and the submission deadline is March 31. These awards recognize students who excel in various aspects of biomedical informatics, including teaching, information seeking, critical appraisal and research. Please follow the nomination guidelines at <http://hsc.unm.edu/library/about-hslic/awards1/awards.html>.

Grant funds point of care for rural practitioners

*Gale Hannigan, PhD, MPH—Biomedical Informatics
Special Projects Librarian*

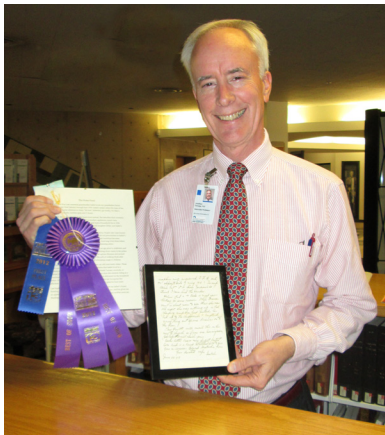
*Jon Eldredge, MLS, PhD, AHIP—Coordinator, Evidence
Based and Translational Science Services*

HSLIC applied for and received a Community Engagement Mini-Grant Award from the UNM Office for Community Health (OCH) in support of the NIH-funded NM Center for Advancement of Research, Engagement and Science on Health Disparities (NM CARES HD). The mini-grant program nurtures small pilot projects related to Vision 2020 and NM CARES HD.

HSLIC's project is titled "Improving Health Information Access among New Mexico Health Care Practitioners: A Point-of-Care Information Resource Intervention and Evaluation." This funding enables HSLIC to give 30 practicing physicians, nurses, physician assistants and registered pharmacists who are not affiliated with UNM access to one of two evidence-based commercial products.

The project explores the possibility that information access disparities might contribute to health disparities. The project will determine the usefulness and value of these resources in the context of community-based practice.

A glimpse back at health care in the World War II era



*Jon Eldredge, MLS, PhD, AHIP—Coordinator, Evidence Based and Translational
Science Services*

Laura Hall, MFA—Manager, Special Collections

Dr. Jon Eldredge received both First Place and Best of Show awards in the "History" category for his entry "The Home Front" at the 2012 New Mexico State Fair. Jon summarized and exhibited letters from his maternal grandmother, Isabel, to his grandfather, David, during World War I. Following the war, Isabel resumed her career as a scientist educator, and David resumed his career as a physician scientist. He later taught at the Boston University Medical School. They met while working across the lab bench at Woods Hole Institute. As a physician in the U.S. Army during WWI, David likely would have treated patients in settings such as the scene below.

The photo shown below is titled *Hospital Ward at Valmora Ranch Sanatorium, ca. 1915*. Valmora Ranch Sanatorium was established in the mountains of northern New Mexico in 1905 as part of the modern sanatorium movement that isolated tuberculosis sufferers under controlled conditions. Valmora was an ideal setting according to medical practice at the time, which touted the "great tonic effects" of a high-altitude climate in treating tuberculosis. Sanatoria such as Valmora sought to arrest the disease while training patients in a new lifestyle of moderate exercise, rest and nourishing food.

This photograph comes from the Valmora Industrial Sanatorium Collection, which is housed in HSLIC's New Mexico Health Historical Collection. It is one of many unique collections that document the history of medicine and health care practices in the state.



For more information about HSLIC's collections, contact Laura Hall, Manager, Special Collections, at (505) 272-6518 or ljhall@salud.unm.edu.

HSLIC faculty publish articles, book chapters and reports

Dale C. Alverson, MD, Professor Emeritus of Pediatrics and a Regents' Professor, has a secondary appointment at HSLIC. He and his co-authors had a paper published in the *Telemedicine and eHealth Journal*. Released early as a "fast-track article," it describes the UNM HSC's Center for Telehealth as a model of a telehealth program based at an academic medical center designed to improve access to care, improve health outcomes and reduce cost. The authors describe how the Center functions as a resource center and core facility for developing and incubating new telehealth applications; providing technology support, evaluation, research, and analysis of telehealth; offering training and education in the use of telehealth; and collaborating in the development of policies, procedures and guidelines.¹ Also, Dr. Alverson had a chapter titled "Health Care in a Perfect Storm: A Time for Telemedicine and Health Information Technology" published in a book titled *The Thought Leaders Project, E-Health, Telemedicine, Connected Health—The Next Wave of Medicine*. The chapter describes the role of telemedicine and health information technologies within a transforming health care system and future opportunities.² In addition, Dr. Alverson contributed to an Institute of Medicine report with an article titled "The Role of Telehealth in an Evolving Healthcare Environment." It describes the importance of broadband connectivity in supporting telemedicine and health information exchange, barriers and the spectrum of U.S. programs attempting to address and overcome those barriers.³

Heather Edgar, PhD, Curator of Human Osteology for the Maxwell Museum of Anthropology and an Assistant Professor in Anthropology at UNM, also has a secondary appointment at HSLIC. She published two pieces recently that highlight her ongoing research on the use of morphological traits of the teeth in the identification of unknown individuals from forensic contexts. One, in the *Journal of Forensic Science*, presents regression formulae for estimating ancestry.⁴ The other, a chapter in a book available from Cambridge University Press, discusses cutting-edge statistical approaches to applying variation in the dental morphology of contemporary populations to forensic identification.⁵

1. Alverson DC, Dion D, Migliorati M, Rodriguez A, Byun HW, Effertz G, Duffy V, Monge B. Center for Telehealth and Cybermedicine Research. University of New Mexico Health Sciences Center: a model of a telehealth program within an academic medical center. *Telemedicine and eHealth*, 2013, early release as a fast-track article January 14, 2013, formal publication in press.

2. Alverson DC. Health care in a perfect storm: a time for telemedicine and health information technology, in the thought leaders project, e-health, telemedicine, connected health—the next wave of medicine, Sikka N, Pion R, Tritle B, Weinstein R (eds), Bierbaum Publishing, LCC, Lexington, KY, 2012: 29–37.

3. Alverson DC. Challenges in telehealth: broadband connectivity, in the role of telehealth in an evolving health care environment, workshop summary. Institute of Medicine of the National Academies, The National Academies Press, Washington, DC, 2012: 21–22.

4. Edgar HJH. Estimation of ancestry using dental morphological characteristics. *J Forensic Sci*. 2013; 58(s1):s3-8.

5. Edgar HJH, Ousley SD. New approaches to the use of dental morphology in forensic contexts. In: Scott GR, Irish JD (eds). *Anthropological perspectives on tooth morphology: genetics, evolution and variation*. Cambridge University Press. 2013; 510–534.



Dale Alverson, MD, recently published two articles and a book chapter.

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Do you have ideas for how we could improve this publication? Please send us your feedback:

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HSLIC recognizes “Evidence Based Practice All-Stars”



Dr. Jon Eldredge (left) who co-directs the three-year longitudinal Evidence Based Practice course in the UNM School of Medicine, is shown with first-year “EBP All-Stars.” All of these students performed very well on their EBP tests and exams during their first six months of medical school. Students in the photo are, from left, next to Dr. Eldredge: Jerec Ricci, Isaac Armistead, Julia Silva, Anna Kellund, Aarti

Attreya, Tiffany Cericola, Surasri Prapasiri, Samantha Sanchez, Joseph Romero and Ahmad Manshad. High-scoring students not pictured are Amelia Clement, Samantha Bapty, Zachary Gillooly, Jennifer Johnston, Teresa Leslie, Brenna McGuire, Page Pomo, Arianna Pregonzer-Wenzler, Manuel Rojo, Karl Stoltze, Lisa Toelle, Adam Ulibarri, Zachary Weiss, Alyssa Williams and Caitlan Williamson.

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1 University of New Mexico

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