

Health Sciences Library System (HSLs)
University of Pittsburgh
www.hsls.pitt.edu

Annual Report - FY 2007-2008
(July 1, 2007 – June 30, 2008)

The Health Sciences Library System (HSLs) supports the educational, research, clinical, and service activities of the health sciences community of the University of Pittsburgh and the University of Pittsburgh Medical Center (UPMC) through development and provision of innovative information resources and services.

HSLs includes *Falk Library of the Health Sciences*, *Western Psychiatric Institute and Clinic (WPIC) Library*, the *James Frazer Hillman Health Sciences Library* and the *Hopwood Library: A Health Resource Center for Patients and Families* at UPMC Shadyside, and the *Blaxter Medical Library*, the *Family Resource Center*, and the *Moulis Children's Library* at Children's Hospital of Pittsburgh (CHP). The HSLs staff includes 26.6 FTE librarians, 37.7 FTE support and technical staff, and 5.6 FTE student assistants. The HSLs serves more than 55,000 primary clients, including health sciences faculty, staff, students, residents, and employees of UPMC hospitals.

The accomplishments and activities described in this Annual Report are organized in accordance with goals identified in the *HSLs Long Range Plan, 2006/07-2010/11*.

GOAL 1: Acquire knowledge-based information resources in appropriate formats to meet the needs of the health sciences community at the University of Pittsburgh and the University of Pittsburgh Medical Center.

In June 2008, the combined resources of HSLs libraries totaled approximately 407,000 print volumes, including more than 200,000 monographs. There were over 8,300 audiovisual titles and educational software programs. HSLs has increasingly shifted to providing information electronically. Library users had access to more than 4,000 electronic journals in the health sciences. Similarly, the electronic collection included 2,800 e-books and 90 databases or publisher collections of full-text information.

New resources licensed in the past year include:

- ◆ **BioMedProtocols.com** – an electronic book database containing full-text biomedical and biological research protocols from five titles in the Humana Press Methods series. These include more than 16,000 peer-reviewed protocols available as PDF files.
- ◆ **NCME TV** – a Web-based series of streaming CME videos. All programs are certified for AMA Category 1 credit.
- ◆ **RefWorks** – a Web-based product for managing citations and creating bibliographies. The program allows users to build personal databases of references to articles, books, chapters, and other publications, and to work collaboratively with colleagues at the University of Pittsburgh or other institutions with licensed access to RefWorks.

- ◆ **Cardiosource Plus** – a specialized Web resource from the American College of Cardiology. It includes summaries of clinical trials, clinical images, case studies, rapid news summaries from major cardiovascular meetings, and the Heart Songs audio product.
- ◆ **PsycEXTRA** – a database that captures difficult-to-find “gray” literature in the fields of psychology, behavioral science, and health. These are publications produced by all levels of government, universities, business and industry in print and electronic formats, but which is not controlled by commercial publishers. Gray literature is difficult to locate because it is disseminated outside the traditional path of peer-reviewed journal/book scholarship.
- ◆ **Pan American Health Organization (PAHO) E-Collection** – collection of e-books with public health and statistical information relevant to the western hemisphere.
- ◆ **Thieme EBook Library** - books on anatomy, basic sciences, clinical sciences, and radiology
- ◆ **Approximately 100 new journal titles.** A number of journals with low use were cancelled, and new titles recommended by users were added.

HSLs has added the following new software/database suites into its licensed bioinformatics tools collection:

- ◆ **Metacore from GeneGo, Inc.** – an integrated software suite for functional analysis of experimental data that covers microarray & SAGE gene expression, SNPs & CGH arrays, proteomics, metabolomics, pathway analysis, yeast-2 hybrid, and other custom interactions.
- ◆ **BIOBASE Knowledge Library** – a Web-based bioinformatics suite offering the following three databases and two DNA sequence analysis tools:
 - **TRANSFAC:** contains information on transcription factors, the experimentally-verified binding sites, DNA-binding profiles, and regulated genes.
 - **TRANSPATH:** a database on biological pathways that provides information signaling molecules, metabolic enzymes, second messengers, endogenous metabolites, miRNAs and the reactions they are involved in.
 - **PROTEOME:** six protein databases with information on yeast, human, mouse, rat, worm, human pathogenic fungi, S. pombe, and G protein-coupled receptors proteins.
 - **MATCH:** a tool to locate transcription regulatory elements in sequences of interest.
 - **ExPlain:** a tool for interpretation of gene expression data.
- ◆ **ArrayAssist (GeneSpring) from Stratagene** – supports analysis of gene expression microarrays from any microarray platform.

Monthly introductory hands-on workshops and in-house technical support on commercial software suites were offered to promote these bioinformatics tools. The success of these efforts can be gauged by the steady growth of registered users.

In July 2007, HSLs renewed multi-year licenses with UpToDate, Micromedex and Elsevier/ScienceDirect. These long term agreements will provide data for future budget planning.

In FY 2007-08, 33,223 books were borrowed or renewed in HSLs libraries. This is a decrease of 5% from the previous year. Circulation statistics for Falk Library's print books purchasing within the past 18 months were analyzed to evaluate usage patterns. The data generated is used to inform purchasing decisions, and to ensure that the collections budget is wisely allocated.

A significant accomplishment in the past year was purchase and implementation of a new electronic resources management (ERM) system to centralize the technical and administrative details of managing digital information from dozens of providers. After exhaustive market research and vendor presentations, the ERM system from Innovative Interfaces, Inc. was selected. This system also makes it easier for library users to link to electronic resources from a variety of vendors.

GOAL 2: Provide effective access to local and remote information to meet the needs of a diverse user community.

The HSLs Web site (www.hsls.pitt.edu) is the entry point to the wide range of HSLs resources and services. While approximately 1,200 people physically enter an HSLs library every day, there are an average of 44,877 page views on the HSLs Web site.¹ The HSLs Computer Services department provides high-quality technical support with minimal interruptions for library users.

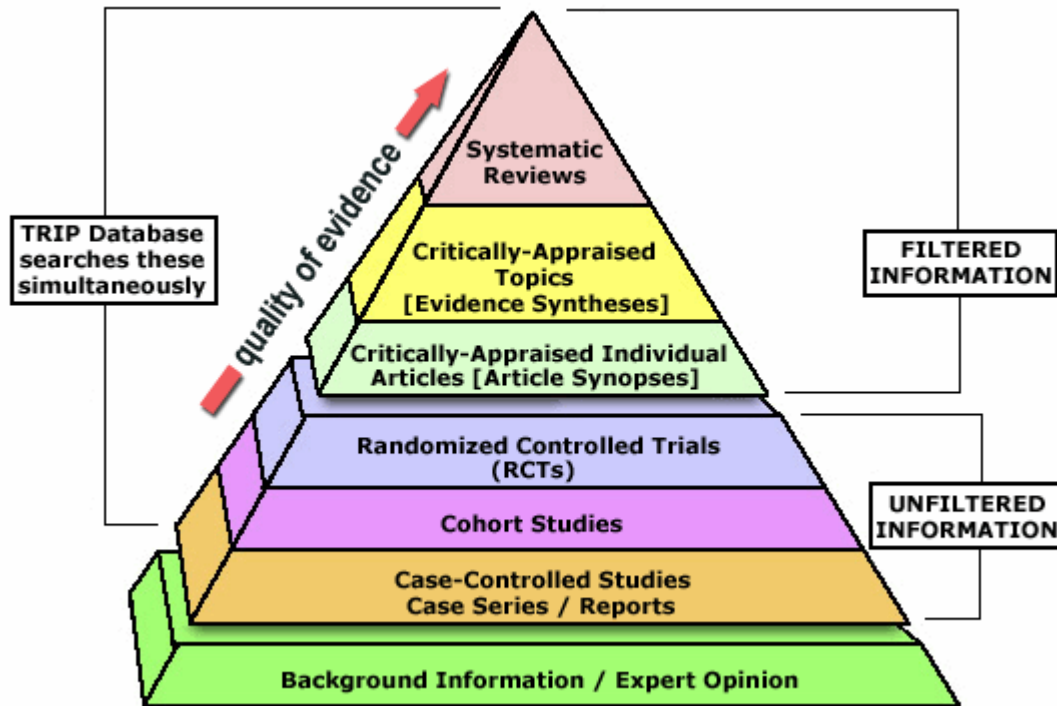
Major Web site projects during the past year include an upgrade of the Molecular Biology Web portal, introduction of an EBM Pyramid resource page to support evidence-based patient care, development of "Search.HSLs.clinical-e" to be accessed through the UPMC eRecord, a re-design of the Rare Books and Special Collections page, and planning for a new Consumer Health Web site.

The Molecular Biology Web portal www.hsls.pitt.edu/guides/genetics was updated with an integrated molecular information search box called "Search.HSLs.Molbio". This new search system powered by VIVISIMO clustering algorithm allows users to quickly access the major bioinformatics databases, software tools, and related literature on the Web, in addition to HSLs licensed resources. Users have a selection of six resource tabs² that may be searched by keyword, phrase, gene name, disease biological process, etc. The tabs offer quick access to a variety of information, such as bioinformatics databases, software tools, gene-protein centered information, biological pathways, laboratory protocols and expert recommended articles. "How Do I-Molbio" is a FAQ section offering step-by-step guides to solve complex bioinformatics problems. The HSLs Mol Bio page receives an average of 3,000 daily hits, reflecting a 10-fold increase over the past five years.

¹ A page view is a request from a visitor's browser for a displayable Web page, generally an HTML file.

² The six tabs are (1) Databases & Software, (2) Articles on Databases & Software, (3) Genes/Proteins, (4) Pathways, (5) Protocols, and (6) Recommended Articles from Faculty of 1000.

The EBM Resource Pyramid³ www.hsls.pitt.edu/guides/ebm is a graphical tool to help users identify the best resources for evidence-based practice. When users click on a specific level of evidence, HSLS Web-based resources that satisfy the selected level are displayed. The display includes a brief description of the resource and a link for access, assisting users in finding the most appropriate EBM information.



Two novel Vivisimo search tools are nearly complete, and will be launched by fall 2008. The first, "Search.HSLs.Clinical-e", was developed with input from the UPMC eRecord's Physicians Advisory Committee. It will bring pertinent information from quality sources directly to clinicians via the UPMC eRecord. There are four search tabs: differential diagnosis, therapy/drugs, evidence-based medicine, and patient education. The patient education section uses Vivisimo's "boosting" capabilities to put UPMC patient education materials at the top of the results page.

The second search tool, "Search.HSLs.ConsumerHealth", will help consumer health librarians, health care professionals, and general consumers of health information find quality information from quality sources.

The new Web site for Rare Books and Special Collections www.hsls.pitt.edu/about/libraries/falk/rarebook was created to highlight information about "hidden collections" in Falk Library. The Rare Books portion includes biographical

³ Adapted with permission from EBM Pyramid and EBM Page Generator, copyright 2006 Trustees of Dartmouth College and Yale University. All Rights Reserved. Produced by Jan Glover, David Izzo, Karen Odato and Lei Wang.

information about noted donors and historical information regarding some of the books and collections. Also included is a comprehensive list of books in the Gerald P. Rodnan and Mark M. Ravitch collections. The Special Collections section of the Web site houses a description of the Detre papers, as well as information about a collection of 19th-century “insane asylum” hospital reports from numerous parts of the U.S. The information that is now available to researchers has attracted graduate students from area universities to use some of our unique rare books, and researchers from as far away as New York and Virginia who are doing research on 19th-century mental institutions.

Throughout the year, regular software and hardware upgrades and technical enhancements were successfully completed with adherence to stringent industry standards. Two of the most popular HSLs Web pages – A-Z lists of e-journals and e-books – also got a face lift this year. The process of pulling and updating data for the e-journal list was improved, and broad subject headings were added to the e-book list. Both lists were enhanced by including free resources produced by government or associations along with the resources licensed by HSLs, so that users can quickly identify a wider range of pertinent resources.

The **HSLs Technical Services department** works “behind the scenes” to create and manage the metadata (e.g. indexing, and other descriptive information) about HSLs resources, so users can find information accurately and efficiently. Records in PittCat are enhanced with content summaries and tables of contents. Authority control records increase the reliability of information retrieval.

Computer Services supports medical education technology by providing both public and behind the scenes services for students and faculty. Circulating laptops, group study rooms, high-powered and well equipped computers in all HSLs libraries, a fully staffed computer support desk at Falk Library, powerful software packages and DVD creation tools are a few examples of the wide range of HSLs technology support.

Along with providing physical space for HSLs classes, staff of the Computer & Media Center (CMC) also provides technology for Falk Library’s conference rooms, training for classroom technology and specialized software services such as those required for HSLs Endnote and Molecular Biology classes. In 2007/2008, there were 370 classes in Falk and WPIC libraries.

At year’s end, HSLs Computer Services staff members continued working with the Senior Vice Chancellor’s office to create a Vivisimo-based search tool to index a wide array of PowerPoint and pdf files. The department also began preliminary work on a search tool to be embedded into the School of Medicine’s online curriculum to provide quick access to information resources.

In FY08, the **Document Delivery Services and Circulation departments** were combined into a single department to be managed by the newly-appointed Head of Access Services. Staff in this department are responsible for circulation, inter- and intra-library loan, and photocopying services, as well as management and access to items housed in HSLs’ remote storage facility. These departments also provide support and upkeep for course reserve materials, public and staff photocopiers, periodical and stacks maintenance and shelving, as well as staffing during all times that the libraries are open.

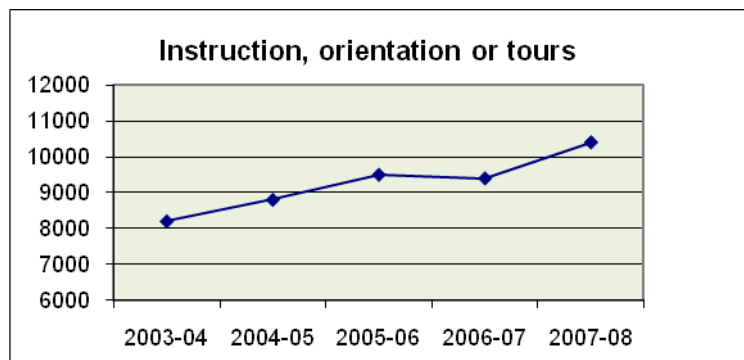
In FY2007-08, **HSLs filled 36,512 interlibrary loan requests from around the world**, ranking second among all academic health center libraries. Lending requests increased from the previous year by 2%, reflecting the strength of HSLs collections, and the department's reputation for prompt and efficient service. The top five requesting institutions to whom HSLs supplied articles were University of Pennsylvania (5,046 articles supplied), Centers for Disease Control & Prevention (2,481 articles), Johns Hopkins University (1,636 articles), Geisinger Health System (956 articles) and University of Rochester School of Medicine (800 articles).

During the past year, HSLs users requested 9,492 journal articles or books. Two thirds were filled from HSLs collections and 406 from other Pitt libraries. Only 3,009 were borrowed from outside institutions, a decrease of over 15% from the previous year. This is a strong indication that HSLs collections satisfy user needs.

Document Delivery invested in new interlibrary loan management software (ILLiad) in the past year to streamline processes, eliminate errors, reduce turnaround time, and manage billing, invoicing, and tracking functions more efficiently. Implementation of this system required a significant cooperative effort (and a great deal of work) by staff members from Document Delivery, Computer Services, and Technical Services. Full implementation of the borrowing module went live on July 1, 2008, after more than six months of planning, customization and user testing.

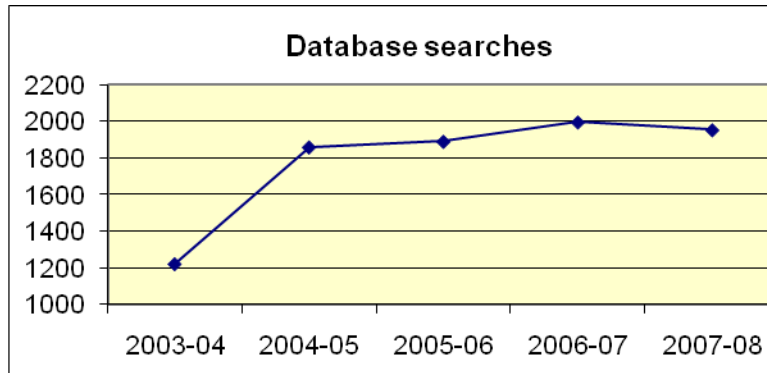
GOAL 3: Develop effective strategies to enhance information literacy and use of information resources.

In 2007-2008, HSLs librarians and staff provided **instruction, orientations or tours to 10,406 faculty, students and staff**. This number continues to rise steadily, as illustrated below.



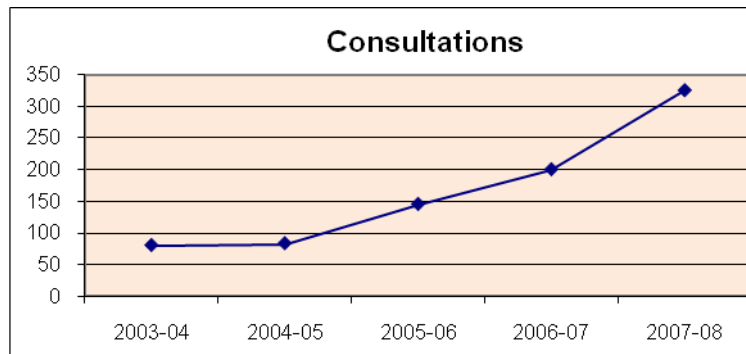
HSLs librarians and staff offer **30 workshops, topical classes and “Lunch with a Librarian” seminars**, in addition to special educational sessions by request. A list of scheduled topics is in Appendix A.

Librarians performed **1,952 database searches by request**. Of these, 1,117 were directly related to care of UPMC patients.



Although the number of searches performed remains constant, the nature of these requests has changed. Users are asking for more in-depth assistance with projects such as writing systematic reviews and practice guidelines. Such requests require expert skills and are considerably more time-consuming than in the past.

Similarly, requests for **individual information consultations increased to 325** in FY08.



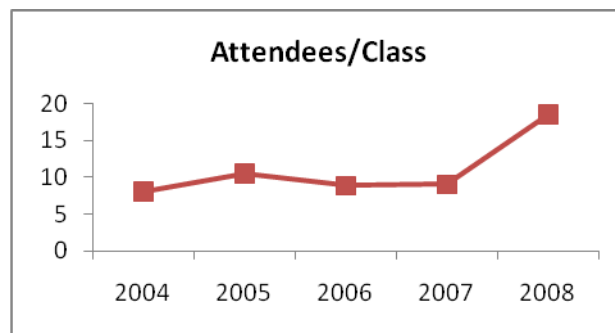
HSLS librarians provide curriculum support to the six schools of the health sciences by teaching students to recognize when information is needed, and providing them with the skills to locate, evaluate and use information effectively. Liaisons to schools of Medicine, Dental Medicine, Pharmacy, Health and Rehabilitation Sciences, Nursing and the Graduate School of Public Health gave presentations this year at faculty meetings, marketed library information to new faculty and provided orientations and instruction within the curriculum. They also provide support for faculty conducting research.

New this year is a suite of introductory online learning modules for the School of Medicine's Navigator Web site. This "Best of HSLS" online project consists of the following segments:

- ◆ HSLS 101
- ◆ HSLS Learn@Your Pace
- ◆ Computers and Technology
- ◆ Researcher's Checklist
- ◆ Scholarly Project Support (Really Quick Tutorials)
- ◆ Study for Your Boards

Also new this year is the introduction of weekly messages to faculty in the School of Dental Medicine with information about new library resources & services, tables of contents of pertinent dental medicine journals, and popular news coverage of dentistry. These messages are distributed to faculty and residents through the departmental LISTSERV.

From September 2007 to May 2008, bioinformatics workshops on 11 topics were offered 28 times to 375 participants. Workshop curricula were revised by incorporating contemporary topics, and PowerPoint slides were reformatted for better navigation. The average number of attendees/ workshop was 18, reflecting a 100% increase over last year. One-on-one consultations on bioinformatics queries were offered to 70 researchers.



CMC staffers also develop and teach a variety of classes for HSLs such as “Advanced PowerPoint”, “Beginners Photoshop”, “Jazz it up: Finding Medical Images” and the popular “WOW Factor: Posters Made with Microsoft PowerPoint”. In preparation for the upgrade to Microsoft Office 2007, PowerPoint classes were upgraded to include new and advanced features. Computer services staff conducted workshops at resident and bioinformatics trainings, and were guest lecturers in Health Sciences classes and for other University and UPMC departments including the Pathology/Informatics Resident Training, the school of Dental Medicine, Children’s Hospital Quality Process Improvement Specialists, and the School of Medicine’s Master’s program in medical education.

A detailed list of instructional activities to the health sciences schools is in Appendix B.

HSLs librarians provide extensive instruction and support for clinical and research activities to physicians, nurses and other clinical staff of UPMC hospitals. The past year saw an increased demand for instruction about resources to support evidence-based medicine, and development of search strategies for systematic reviews and meta-analysis. Librarians taught in the Clinical Research Training Program of the Institute for Clinical Research Education, as well as other faculty development programs in the Department of Medicine and various CME venues. Other audiences included residents and fellows, the UPMC Evidence-Based Nursing Council, dietitians, and social workers. **A complete description of instructional activities for clinicians may be found in Appendix C.**

During the past year, librarians introduced new technology to enhance instructional activities.

- ◆ **Jing** is an application that allows librarians to capture images on their computer screens and share them as still pictures or videos. The Molecular Biology Information Specialists use this technology to answer email questions they receive. They also began creating short digital “How Do I” Q&A’s using Jing technology (<http://staff.hslls.pitt.edu/www/jing/SNP.swf>)
- ◆ **New online education modules** have been developed using Apreso technology.
 - *Learning @ Your Pace* (www.hslls.pitt.edu/services/learning_at_your_pace) These modules provide a brief overview of HSLs, instructions for accessing HSLs electronic resources from off-campus, and explanations of basic database concepts. Users can also view a series of tutorials detailing how to use the *search.HSLs* function to find full-text journal articles, search the PubMed database, or explore the HSLs electronic book collection.
 - As described above, *Best of HSLs* http://www.eprom.pitt.edu/34_viewModule.asp?moduleID=1786069247&toolType= was developed for the School of Medicine’s Navigator Web site, which contains the school’s online curricular materials. Online tutorials developed in support of this project include:
 - Boolean operators
 - How to formulate a search strategy
 - How to locate background information
 - How to select a database
 - PubMed: a really simple search
 - Using limits in PubMed.
 - Lunch with a Librarian session on *Patient Education Solutions: Locating Patient-Level Information within HSLs Resources* was recorded using the Apreso technology, and made available on the HSLs Web site (http://www.hslls.pitt.edu/services/instruction/lunchlibrarian/other_sessions.html)
 - Three online modules that repeat/reinforce what was taught in person were added to the School of Medicine’s Methods in Logic and Medicine course Web site.
- ◆ The online modules **Responsible Literature Searching** and **Introduction to HSLs** are part of the Internet-based Studies in Education and Research. (<http://cme.hs.pitt.edu/>). The Responsible Literature Searching module was completed by 452 users this year. The content was made available for adaptation to the National Institutes of Health, the Mayo Clinic and Foundation, Medical College of Georgia, Palmetto Health in Columbia SC, Robert Morris University, and Pacific University in Hillsboro OR. The *Introduction to HSLs* module is a required module for all new graduate medical residents and fellows, and was completed by 524 users last year.
- ◆ **iclicker** technology has been added to instructional sessions. iclicker is a student response system that instructors can use to quickly poll students’ opinions, administer quizzes and engage students in collaborative learning. This year librarians have used iclickers as part of Governor’s School instruction as well as in class sessions for the School of Health and Rehabilitation Sciences, and library overviews for students in the Interdisciplinary Biomedical Graduate Program.

GOAL 4: Promote awareness of library services, resources and expertise to a large, diverse, and geographically dispersed user population.

In the past year, HSLs employed a variety of methods to publicize and promote library services. Representative activities are listed below:

- ◆ The **HSLs Web** site is the library's "electronic front door" and lists News and Announcements regularly.
- ◆ **HSLs Update**, the library newsletter, is produced six times a year. Beginning with the February 2008 issue, the Update became "e-only", and discontinued publishing in print. The electronic version has a new look and format, and can be received via an RSS feed or by email subscription. All HSLs Account holders (more than 10,000 people) are automatically subscribed. The online archives of the newsletter also became searchable, enabling users to re-visit topics of interest from past articles.
- ◆ **Children's Hospital Libraries** had an active schedule of promotional activities. Bookmarks featuring new children's books are distributed to nursing stations on inpatient floors and through the Child Life department. Regular news items are placed in hospital publications. Librarians created finding aids for to help users of the Blaxter Medical Library. They also created posters and bookmarks, and regular "In the News" displays with medical news from popular consumer sources paired with the attributed research article.
- ◆ **Display cases** in Falk and WPIC libraries are used to promote various health topics each month. Examples include *Easing the Way to Smoke free, Creative Art Therapies, World AIDS Day, RSS Feeds, etc.*
- ◆ **The Hopwood Library** also displayed featured health topics within the library. The covers of new books are scanned and displayed on the glass panels to the entrance of the library.
- ◆ Marketing for the new **Patient/Family Resource Center in WPIC Library** included orientations and tours for 450 behavioral healthcare personnel, distribution of 225 Information RX pads to WPIC clinicians, and a listing of the books available distributed to treatment facilities.
- ◆ **25th anniversary celebration honoring the Chairman of the Department of Psychiatry**: WPIC librarian worked closely with the planning committee to compile a booklet highlighting the most frequently-cited WPIC authors during the past 25 years.

A special challenge this year was new federal legislation mandating all reports of NIH-funded research to be publicly available within 12 months of journal publication. Researchers are required to deposit electronic copies of their final, peer-reviewed manuscripts into NLM's online archive, PubMed Central. HSLs quickly responded by developing a Web page with links to relevant resources and information. The HSLs Director worked with the Office of Academic Career Development to plan and present a workshop titled "**Preparing for Critical Changes in Scholarly Publishing: How Will Open Access Impact You?**" on March 18, 2008. She also presented several lectures to various faculty groups. Pitt's **University Times** featured an article in the January 24, 2008 issue about the new NIH Public Access Policy with quotes from the HSLs Director. ("NIH Mandates Open Access to Researchers' Publications" by Kimberly K. Barlow, *University Times: The Faculty and Staff Newspaper*, January 24, 2008.)

GOAL 5: Nurture and extend partnerships and collaboration with internal and external departments, schools, programs, and organizations.

HSLs librarians and staff are actively involved in a large number of projects and group efforts:

HSLs librarians participate in the daily **Morning Report on the General Internal Medicine** Service in UPMC Montefiore. The Morning Report session, which includes the attending physician, chief resident, and eight medical residents, is an important educational component of internal medicine resident training programs. Librarians participated in a study whose goal is to prepare residents to use evidence-based information in support of patient care. Following the discussion of a case, a clinical question is developed. Both the residents and the librarian retrieve relevant information to answer the clinical question, and this information forms a discussion at Report two days later. The presence of a librarian in this process serves as a reminder that quality primary literature is readily available. This project has resulted in a presentation at the Medical Library Association; other papers are in preparation for submission to peer-reviewed medical journals.

An HSLs librarian provides support to the **Institutional Animal Care and Use Committee (IACUC)** by attending monthly meetings and conducting literature searches for IACUC proposals. More than 35 individual consults and 106 searches were performed in FY08. This year, the University was inspected by the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International. At a luncheon with the AAALAC inspectors and IACUC members, the librarian was recognized as being a critical member of the IACUC. It was also noted that very few institutions have librarians as IACUC members and that our program serves as a successful model.

HSLs Computer Services collaborates with the School of Medicine by hosting servers and providing **technical support for the Lab for Educational Technology's** Zone and Navigator services. Projects in the past year included Navigator hardware migration and assistance in bring up Sharepoint 2007. **HSLs also administers OMED's subsidized printing program for medical students.** Public printing was recently upgraded to provide duplex (2-sided) printing in Falk Library's Computer & Media Center and in the School of Medicine's small group rooms.

HSLs librarians are funded to collaborate with investigators on several research grants:

- ◆ **Development of a Risk Assessment Tool for Osteoarthritis:** HSLs librarian is funded to participate in this two-year research project funded by the Arthritis Foundation and led by Dr. Kent Kwok with an expert advisory panel.
- ◆ **Research Project on Accuracy of Diagnostic Physical Exam (Children's Hospital):** Librarian formulated and tested literature search filter for this review. This resulted in a poster to be presented at the 16th Cochrane Colloquium, to be held in October, 2008 in Freiburg, Germany: *Development of Search Strategies for Retrieving Studies on the Accuracy of Signs and Symptoms.* N Shaikh, RG Badgett, **AM Ketchum**, NL Wilczynski, KA McKibbin, RB Haynes.
- ◆ **Assessment Core of the Pittsburgh Mind-Body Center:** HSLs librarian is funded as a consultant on this NIH training grant awarded to the University of

Pittsburgh (PI: Karen Matthews) and Carnegie Mellon University (PI: Michael Schier)

- ◆ **PROMIS (Patient-Reported Outcomes Measurement Information System):** PROMIS is a multi-site, five-year NIH-funded research project, with the specific aim of developing new methods of assessing self-reported outcomes in patients with a range of chronic diseases. Three HSLs librarians are participating in this project, and one was appointed as a co-investigator on the PROMIS grant. Paul Pilkonis, principal investigator for the Pittsburgh PROMIS site, has acknowledged the collaboration as a unique feature of the project: "The Pittsburgh group has become a model for the entire PROMIS network. Our ability to enlist the help of our HSLs colleagues and their talent in creating procedures for searching the research literature and disseminating their results has been a major asset for ensuring the quality of our work." These librarians are also involved with a NIH-funded project designed to develop a "toolbox" of assessments of neurological and behavioral functioning.
- ◆ **Quality of Life Technical Center:** A center funded by the National Science Foundation awarded jointly to the University of Pittsburgh and Carnegie Mellon University. One HSLs librarian's receives support to mine the literature on quality of life data.
- ◆ **Dental Informatics Online Community:** NIIH-funded project to develop a virtual, global community for dental informatics researchers. A librarian received support to conduct literature searches on the needs of researchers, and also contributed to design of an online survey on the same topic. (Spallek H, Irwin JY, Butler BS, **Weiss PM**. Supporting the emergence of dental informatics with an online community. *Int J Comput Dent.* 2007;10:247-264).
- ◆ **McMaster University Evidence Based Research Practice Center:** HSLs librarian received support to advise on the development of a systematic review titled "Complementary and Alternative Medicine (CAM) in Back Pain Utilization" This Center is funded by the Agency for Healthcare Research and Quality.

HSLs also receives support from the **Allegheny County Health Department (ACHD)** for the Public Health Information Alliance (PHIA). PHIA's goal is to provide high quality information access for the local public health workforce. In the past year, the Web site was updated. An HSLs librarian promoted the program to ACHD department heads, and provided literature searching to ACHD staff members throughout the year. HSLs Document Delivery department filled requests from ACHD for 115 journal articles and 3 books.

HSLs librarians provided support to the **Governor's School of Excellence In Health Care**. The Governor's School is a 6-week residential program for 110 students in high school grades 10 and 11 who have demonstrated special interest and talent in the health sciences. Librarians provided information literacy instruction and one-on-one consultations with the students to support their research projects.

HSLs librarians participate as selectors of books for inclusion in the 2007 **Doody Core Titles Project** in the following three areas: *Psychiatry, Clinical Psychology, Psychiatric Nursing*. The purpose of this project is to develop an international virtual community of librarians for identification of high-quality professional books in health and mental health care.

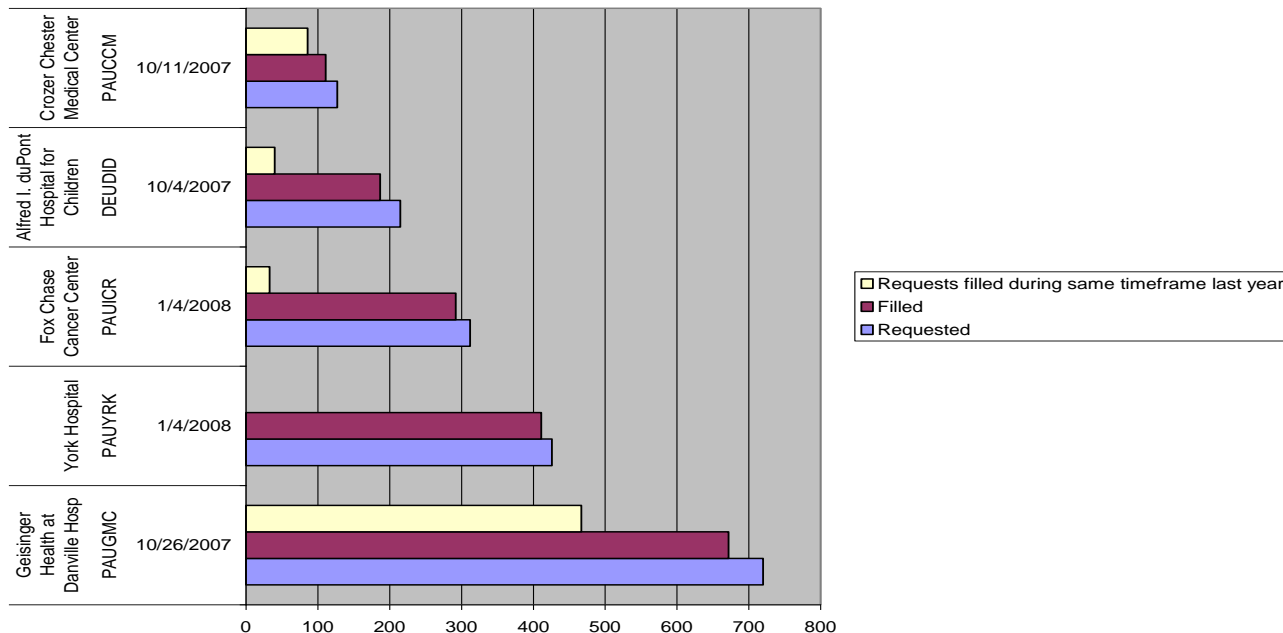
HSLs librarians collaborate in several ways with the University's **School of Information Sciences (SIS)**. Three SIS field placement students spent 150 hrs (3 credits) working with HSLs librarians on projects in Falk Library. Another student worked in HSLs Technical Services department through SIS' Pitt Partners Program. This student received practical training and hands-on library experience in addition to salary support and reduced tuition. The HSLs Director and Associate Director collaborated with SIS faculty to jointly submit a **grant application to the Institute on Museum and Library Services** to support a planning process to design an in-depth curriculum in Health Sciences Librarianship. A decision on this application is expected by October 1, 2008.

In fall 2007, the National Library of Medicine (NLM) asked HSLs to conduct a mini-survey to measure awareness of information resources produced by NLM. HSLs surveyed a cross section of 200 faculty members in the health sciences about their awareness and use of databases such as PubMed, MedlinePlus, GenBank, and others. Results showed that while nearly everyone had used PubMed, many were unfamiliar with other resources.

HSLs has a strong leadership role within the **Middle Atlantic Region of the National Library of Medicine's National Network of Libraries of Medicine**.

- ◆ The HSLs Director serves on the Regional Advisory Committee, and attended one meeting at Memorial Sloan Kettering Cancer Center in New York City.
- ◆ An HSLs reference librarian is on a project team tasked with developing and implementing a "value of libraries study" to measure the value of health sciences libraries, library services, and librarians. The committee is currently revising study design details and outcome measures.
- ◆ Resource Sharing Project:
 - In October 2007, HSLs began a pilot project to supply copies of articles to Pennsylvania and Delaware hospital libraries with under 500 beds, at a discounted rate. The goals of this project are:
 - To provide fast, cost-effective resource sharing to smaller Pennsylvania and Delaware medical hospital libraries;
 - To educate and promote the use of available, applicable technology to enhance resource sharing to Pennsylvania and Delaware medical libraries.
 - To date, the project has attracted 31 participating hospital libraries. 2,049 requests have been submitted and 1,866 have been filled, resulting in a 91% fill rate. In the previous year, HSLs filled only 800 requests for these libraries during the same timeframe. This is clearly a win-win project for the region and for HSLs: HSLs attracts new customers for its document delivery services, while health care practitioners in smaller hospitals in Pennsylvania and Delaware have improved access to healthcare information. Representative statistics for the top five requesting libraries are presented below:

Top Five Requesting Libraries



HSLs is the lending library of choice for the newly-established **Commonwealth Medical College in Scranton, Pennsylvania**. As their library is still in the beginning stages of developing collections and services, they have established an account with HSLs to provide books and articles to administrators, faculty and staff on a fee basis.

HSLs Technical Services librarians are recognized for their expertise. HSLs was approved this year for **OCLC enhance status** for audiovisual records. OCLC is a nonprofit, membership, computer library service and research organization used by more than 69,000 libraries around the world to locate, acquire, catalog, lend and preserve library materials. "Enhance status" certifies libraries to make permanent changes to OCLC master records, the basic OCLC record for cataloging, interlibrary loan and Worldcat, and is awarded only to libraries that have demonstrated exceptional cataloging expertise in a particular format. Of the thousands of OCLC member libraries, less than 30 are authorized to enhance audiovisual records. The only other health sciences library with this privilege is the National Library of Medicine. HSLs also contributes name authority records through the OCLC's Name Authority Cooperative Program.

CONSER, the Cooperative Online Serials cataloging program of the Library of Congress, granted HSLs "independent status" this year, in recognition of the superior quality of its serials cataloging. Only four medical libraries, including the National Library of Medicine, have been approved to participate in this program.

HSLs Librarians participate as **members of committees and organizations within and outside of the University**. Activities are listed in Appendix D.

GOAL 6: Cultivate an environment of learning for librarians and staff that encourages ongoing assessment and evaluation, creativity, innovation, and growth. Capitalize on new opportunities and challenges as they arise.

A primary objective is the recruitment of well-qualified faculty and staff, and proactive planning for personnel transitions when possible. Appointments and promotions of faculty librarians during the past year include:

Renaë Barger, MLIS was promoted to Head of Access Services in July 2007.

Leslie Czechowski, MA, MLS was promoted to Head of Collection Services in July 2007.

Malgorzata Fort, MLIS, DHum, was promoted to Head of Technical Services in July 2007.

Carrie Iwema, PhD, MLS, joined HSLs as Molecular Biology Information Specialist in August 2007. Dr. Iwema earned a BS degree from Indiana University, a PhD in neuroscience from the State University of New York Upstate Medical University, and was a postdoctoral fellow in the Department of Neurosurgery at Yale University. After earning a MLS degree from Southern Connecticut State University, she worked at Welch Medical Library at Johns Hopkins University as basic science librarian.

Mary Jo Dorsey, PhD, was appointed visiting Reference Librarian in January 2008. Dr. Dorsey earned a BS degree in Biology from Carlow College, an MLS and PhD from the University of Pittsburgh School of Information Sciences. She was previously director of the Richard M. Johnston Health Sciences Library at West Penn Hospital.

Barbara Folb, MLS, HSLs reference librarian and GSPH library liaison, was awarded a two-year informationist training grant (Jan 2008-Dec 2009) from the National Library of Medicine. The fellowship grant, titled *Public Health Informationist Training for Academic Public Health Practice*, will allow Folb to earn a MPH degree with a certificate in evaluation. She will also complete a practicum at the Center of Public Health Practice and a research project with the Pennsylvania Preparedness Leadership Institute.

HSLs librarians published in professional journals, and presented papers and posters. These activities are listed in Appendix E.

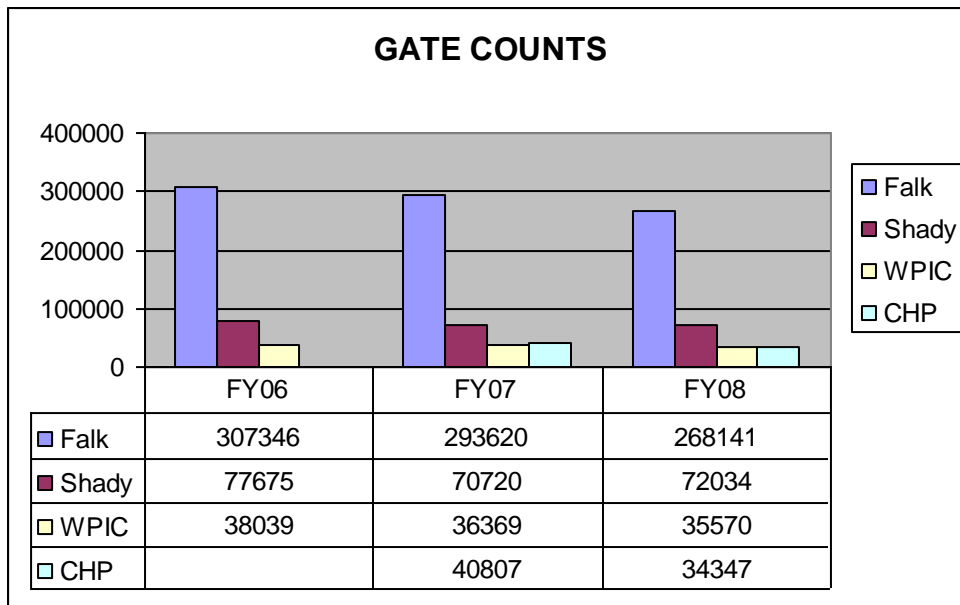
In addition, librarians participate regularly on library committees, and cross-functional teams. These include, among others, a monthly journal club, staff development committee and a Web committee.

One notable educational endeavor this year was the Systematic Review Group, a team of reference librarians working together to develop internal standards on literature searching in support of systematic reviews. Along the way, they developed an internal framework for sharing knowledge and expertise, and co-taught a series of seven 90-minute workshops to their reference colleagues. The team also developed training documents to assist clinicians, researchers and librarians.

GOAL 7: Redefine space to best accommodate the delivery and storage of information resources and services.

Maintaining and upgrading the physical spaces overseen by HSLs is a continuing challenge. Ongoing reconfiguration of library space is a result of changes in user behavior, emerging technologies for information delivery, and demographics of the health center community.

While use of the library’s digital collection continues to rise, the gate count for each library declined. A summary of available data for gate counts for the past three years is illustrated in the figure below. (FY06 gate count for Children’s Hospital unavailable)



In 2007-08, all HSLs locations (Falk Library, UPMC Shadyside, WPIC Library, Children’s Hospital, and the offsite storage facility at Lexington Technology Center (LTC)) either were renovated, or were in the process of planning for future renovations.

Falk Library:

In December 2007, installation of the new elevator in Falk Library was completed after a lengthy planning process. The elevator is used for internal access between the main and mezzanine floors of the library.

In summer 2007, Falk Library added 17 new laptop computers to its circulating collection, bringing the total to 35 units. Use of the laptops has skyrocketed in the past year, with more than 4,500 unique circulations totaling over 14,000 hours of use. This is nearly a 70% increase as compared with FY 2006-07.

Falk Library’s four group study rooms continue to be popular with students in the health sciences. In FY 2007-08, the rooms were used by 1,790 groups for a total of 5,752 hours, an increase of 20% from the previous year.

Funding from the University's student computing fees made possible the purchase of upgraded laptop computers, so that Falk Library's Conference Room B can be used as a wireless classroom for hands-on training sessions in bioinformatics and other topics. This will enable training sessions to be expanded to accommodate 25 students at a time.

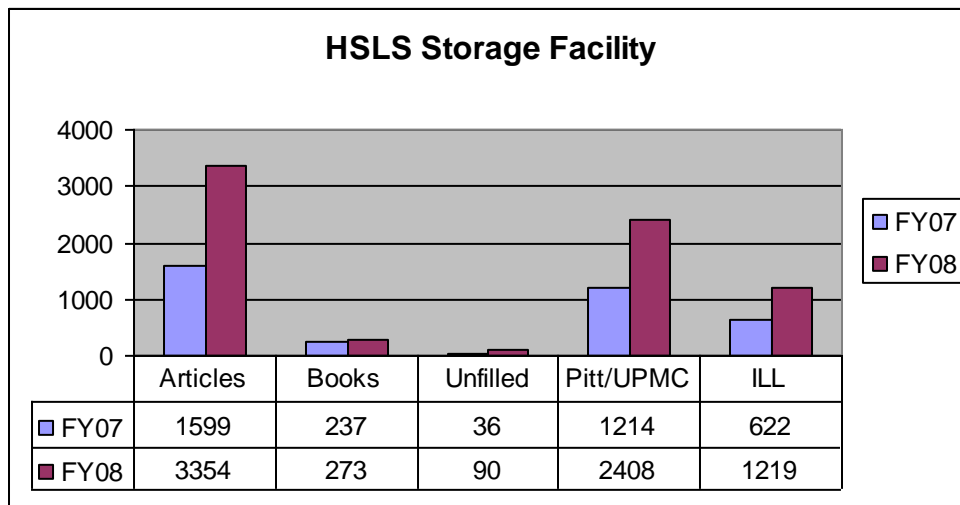
Capital funding is in place for a new HVAC system for the rare book rooms and construction of a new room on the mezzanine level to house computer servers.

The collection of print monographs housed on the mezzanine level of Falk Library is still growing, albeit more slowly than in the past. As the shelves are very overcrowded, staff members have removed older volumes that have not circulated in the past ten years, to onsite storage in the basement of Scaife Hall. These will eventually be moved to the offsite storage facility. Duplicate volumes are discarded.

LTC (Lexington Technology Center) Remote Storage Facility:

HSLs' off-site storage facility (LTC) houses older library materials with historical and research value. It is equipped with high-density compact shelving with a capacity of nearly 200,000 volumes. An efficient inventory and retrieval system enables users requesting an article to receive it within one to two days. Advanced scanning software is used to scan and send electronic copies of requested articles in PDF format, making access to these print journals in storage nearly as convenient as an online subscription. Arrangements can also be made to deliver journal volumes to Falk Library for in-house use if needed.

From October 2007 through January 2008, print journal volumes dated 1975 to 1989 were relocated from Falk Library to LTC. After this move, requests from users for items in storage doubled, as indicated in the figure below. To accommodate this increased workflow, a second employee was added at LTC.



UPMC Shadyside

Planning for a new classroom/conference room is underway, with construction expected to begin by September 2008. The staff workroom will also be re-located. The new room will accommodate 8 students for hands-on instruction on library resources. Print journal volumes prior to 1990, as well as those available online, were removed from the library to make room for the construction.

WPIC Library:

A Patient/Family Resource Center was launched at WPIC Library in summer of 2007 to provide consumer-level resources to help meet the information needs of inpatients, outpatients, and their families. Information appropriate for children, adolescent, adult and geriatric populations is available.

Staff offices were relocated in spring 2008 to make room for WPIC faculty who may be housed temporarily in library space during hospital renovations.

Planning is underway for an architectural “early study” of library renovations and possible downsizing.

Children’s Hospital Libraries:

The focus this year has been on planning for library space in the new Children’s Hospital now under construction. Librarians have attended several meetings to design the space, furnishings, and technology. It is anticipated that the library will move in early 2009.

Appendix A

Regularly Scheduled HSLs Classes and Instructional Sessions

Orientations

- ◆ Introduction to HSLs Resources and Services at Falk Library
- ◆ Introduction to HSLs Resources and Services at WPIC Library

Searching Databases

- ◆ Measuring Health: Finding Mental Measurement Tools
- ◆ PubMed Basics
- ◆ Searching Nursing Literature
- ◆ Searching PsycINFO
- ◆ Transitioning to Ebsco CINAHL

Software Training

- ◆ Adobe Photoshop for Beginners
- ◆ Advanced PowerPoint for Presentations
- ◆ EndNote Basics
- ◆ PowerPoint for Beginners
- ◆ Advanced PowerPoint
- ◆ The WOW Factor: Creating Posters with PowerPoint

Molecular Biology

- ◆ DNA Analysis Tools
- ◆ Genetic Information Hubs
- ◆ Genetic Variations Resources
- ◆ Introduction to Genome Browsers
- ◆ Introduction to Microarray Data Analysis
- ◆ Introduction to Pathway Analysis Tools
- ◆ Introduction to Vector NTI
- ◆ Peptide Mass Fingerprinting for Protein Identification
- ◆ Protein Analysis Tools
- ◆ Protein Information Hubs
- ◆ Sequence Similarity Searching

Lunch With A Librarian

- ◆ Advanced Google: Tips and Strategies for Getting More From Google
- ◆ Customize Google to Work for You
- ◆ Jazz It Up: How to Find Medical Images for Your Presentation PowerPoint 07
- ◆ Publishing an Article: Resources and Strategies for Aspiring Authors
- ◆ Searching for Dollar\$: Grant Resources on the Web
- ◆ Tools for Quick Searching
- ◆ A Wealth of (Information) Treasures Awaits You: Navigating the HSLs Web Site
- ◆ Who Cited Whom? Using Cited References to Identify Research Literature
- ◆ All the News You Thought You Wanted: Managing News, Tables of Contents, and Blog Postings with RSS

- ◆ Are You Making an Impact?
- ◆ Bioinformatics Bonanza: Introducing the HSLS Molecular Biology Resource Portal
- ◆ Drug Information @ Your Desktop
- ◆ EndNote vs. RefWorks: Which Should I Use?
- ◆ Finding Full-Text Articles
- ◆ Getting the Most from MEDLINE Helpful Tips for Better Results
- ◆ Google Scholar vs. MEDLINE for Health Sciences Literature Searching
- ◆ It's Good to Share: Collaboration Made Easier with Web-Based Tools
- ◆ Lights, Camera, Action: Creating DVDs
- ◆ Measuring Health: Finding Mental Measurement Tools Used in Health and Mental Health Settings
- ◆ On the Alert: Staying Current With New Information
- ◆ Open Access: What's All the Fuss?
- ◆ The Search for Evidence: Locating Evidence-Based Health Care Information
- ◆ Taking Control of Your Google Homepage: Customizing Google
- ◆ Testing Beyond the Laboratory: Finding Testing Instruments Used in Research and Clinical Settings

Appendix B

Representative HSLs Instructional Activities in the Schools of the Health Sciences

School of Medicine

Student instruction

- ◆ Library open house and HSLs overview for 145 MS-1 students
- ◆ Methods and Logic in Medicine course for 145 MS-1 students
- ◆ Two instruction sessions; one session on MEDLINE searching using PubMed and the other was advanced searching and the EBM pyramid. Developed three short online modules on the course Web site to support what was taught in-person. Students are required to complete HSLs online module, Responsible Literature Searching.
- ◆ CLRES 2073 Intro to Clinical and Translational Research for 18 MS-1 students.
- ◆ Two 90-minute seminar sessions to medical students in this research program. One session is on MEDLINE searching and the other is Endnote instruction.
- ◆ Level I and Level II Summer Premedical Academic Enrichment Program students were provided tour and instruction sessions on using PittCat and PubMed (22 students)
- ◆ MS-1 Prematriculation Program students were given a tour and orientation to library resources (16 students)
- ◆ MS-4 elective History of Medicine: one month elective offered several times a year to 2-5 students each session.
- ◆ Interdisciplinary PhD students were provided with a tour and orientation to HSLs resources such as BIOSIS Previews, EMBASE, Scopus, and PubMed. (41 students)
- ◆ INTBP 2030 Biocomputing (11 students): sessions on PubMed searching, EndNote, Adobe Photoshop and scanning, Genbank, Locus Link and Vector NTI
- ◆ Introduction to Bioinformatics (BIOINF 2051): molecular biology information resources (10 students)
- ◆ Medical Scientist Training Program (MSTP) Molecular Medicine Summer Course: molecular biology information resources (18 students)
- ◆ Pulmonary Medicine Bench Research Summer Course: molecular biology information resources (20 students)
- ◆ Librarian was panelist for session titled Utilizing New Resources to Build Your Research Portfolio, at the 2008 Course in Scientific Management and Leadership.

Faculty support

- ◆ Sessions on molecular biology information resources were presented at departmental seminars for Neuropathology, Cell Biology and Genomic & Proteomic Core Facility.

School of Pharmacy

- ◆ Library open house for 108 incoming students (108)

- ◆ PharmD students: MEDLINE/drug info (324 students)

School of Dental Medicine

Student instruction

- ◆ Incoming First Professional DMD Student Orientation for 85 students
- ◆ Incoming Dental Hygiene Student Orientation for 36 students
- ◆ DENHYG1420 (Ethics for the Health Care Professional): Dental Hygiene Ethics Assignment Resources (32 students)
- ◆ DENHYG1112 (Introduction to Dental Hygiene): Ethnographic Paper Resources (35 students)
- ◆ CDENT5112 (Professionalism in Dentistry/First Professional DMD Program): Oral Health Literacy & Dental Practice (80 students)
- ◆ CDENT 5141 (Dental Informatics): PubMed (including graded assignment) (57 students)
- ◆ Incoming Advanced Standing Dental Student Orientation
- ◆ DENHYG1379 (Dental Hygiene Clinic 2): PubMed (40 students)

Faculty support

- ◆ Clinical Research Scholars Program (for Faculty): HSLs Resources & Services
- ◆ Clinical Research Scholars Program (for Faculty): PubMed
- ◆ HSLs Resources & Services Presentation at Dental Hygiene Faculty Meeting
- ◆ HSLs Resources & Services Presentation at School of Dental Medicine Curriculum Committee Meeting
- ◆ "Open House" with School of Dental Medicine Deans at Falk Library
- ◆ HSLs Resources & Services Presentation at Dental Anesthesia Faculty & Residents Meeting
- ◆ Weekly messages about new resources, services, journal articles and popular news coverage of dentistry distributed to faculty and residents through the departmental LISTSERV.
- ◆ OVID "Auto Alerts" service, based on faculty member topic of interest
- ◆ Dental Informatics Online Community grant (DIOC) – (Spallek H, Irwin JY, Butler BS, **Weiss PM**. Supporting the emergence of dental informatics with an online community. *Int J Comput Dent.* 2007;10:247-264.)
- ◆ In preparation for reaccreditation visit by American Dental Association (ADA), HSLs librarian was appointed to the School of Dental Medicine Accreditation Subcommittee, in support of Accreditation Standard 2-24 ("Graduates must be competent in the use of information technology resources in contemporary dental practice."),

School of Nursing

Student instruction

- ◆ HSLs librarian continues to teach a sequence of topics across the first two years of the BSN program: freshman receive instruction in basic information literacy concepts (popular versus scholarly literature, types of scholarly literature) and a lecture on controlled vocabulary (MeSH), and sophomores receive one or more lectures and hands-on sessions on basic literature searching skills. Specific course presentations are listed below:
 - Grad student orientation for 90 students: overview and search.HSLs

- NUR 0067: Intro to searching (122 students)
- NUR 1056: MeSH (165 students)
- NUR 2007: Intro to literature searching (32 students)
- NUR 2007: Intro to searching (62 students)
- NUR 0080: The Basics of MeSH (14 students)
- NUR 0080: Intro to searching (9 students)
- NUR 2007/3007: Basic literature searching (14 students)
- NUR 2000: HSLs Web site and search.HSLs overview (35 students)
- NUR 3049: Intro to searching (19 students)

Faculty support

- ◆ Librarian provides extensive mediated search services to approx 20 nursing school faculty, including assistance with a systematic review.
- ◆ HSLs librarian co-authored a journal article on basic search strategies with a Nursing faculty member ([Klem, M.L.](#) and Northcutt, T. (2008). Finding the best evidence, part 2: The basics of literature searches. Journal of Emergency Nursing,34:151-153).

Graduate School of Public Health

Student instruction

- ◆ HSLs Orientation for 100 new students
- ◆ PUBHLT 2014: Overview of Public Health (125 students)
- ◆ BOST 2092: Introduction to Computing (30 students)
- ◆ Overview of library resources and services for LGBT Certificate course (15 student)
- ◆ Health Disparities Class--Intro to PubMed/PsycINFO (12 students)
- ◆ HSLs overview for new/tentative GSPH student fair (75 attendees)
- ◆ Molecular Fundamentals Conference (EOH 2311): molecular biology information resources (6 students)
- ◆ Introduction to Human Biochemical and Molecular Genetics (HUGN 2034): molecular biology information resources (10 students)

Faculty support

- ◆ HSLs overview for Center for Public Health Practice
- ◆ HSLs Director presented "Scholarly publishing and the NIH Public Access Mandate"
- ◆ Library liaison to the Center for Research on Health and Sexual Orientation provides literature searches for individual faculty members

Health and Rehabilitation Sciences (HRS)

Student instruction

- ◆ Library orientation for 130 incoming graduate students
- ◆ Library orientation for 200 incoming undergraduate students
- ◆ Library orientation for 13 incoming Master Of Physical Therapy International students
- ◆ MS in Health and Rehabilitation Sciences course on research methods: library overview of peer review and databases such as MEDLINE, Cinahl (20 students)
- ◆ Emergency medicine undergraduates : overview of searching, PubMed & Cinahl (20 students)

- ◆ HRS 2708 The Individual and Social Experience of Disability: database searching (23 students)
- ◆ CSD graduate students: Evidence based practice resources (40 students)
- ◆ Nutrition and Performance: Evidence based practice resources (14 students)
- ◆ Doctoral seminar: setting up Auto-alerts (17 students)
- ◆ Rehabilitation Science and Technology Introduction to research: PubMed & Cinahl (25 students)
- ◆ Rehabilitation Science and Technology Epidemiology course: PubMed & Cinahl (28 students)
- ◆ Health Information Management course: PubMed & Cinahl (30 students)
- ◆ Master of Occupational Therapy course: PubMed & Cinahl (44 students)
- ◆ Doctor of Physical Therapy course (58 students)
- ◆ CSD Audiology graduate students: EndNote (5 students)

Faculty support

- ◆ Consultations and literature search support
- ◆ “Scholarly publishing and public access” presentation by HSLs Library Director

Appendix C

Support for UPMC Clinical Staff

Librarians provide instruction and information seeking support to the clinical staff at UPMC hospitals both through on-site libraries and the affiliated hospital service.

Medicine

- ◆ **Institute for Clinical Research Education (ICRE):**
 - ◆ **CLRES 2300 Introduction to Systematic Reviews and Meta-Analysis**

This 8 session course is an overview of the concepts necessary for performing systematic reviews and meta-analyses, covered in sufficient detail to enable students to conduct their own systematic reviews/meta-analyses upon completion of the course. The course was offered to 26 fellows, faculty, and medical students through the Clinical Research Training Program (CRT). HSLS librarians taught in the following 2 sessions:

 - Session 2 - Goals of literature search How to develop search strategies for online databases
 - Session 3 - Applying a search strategy to identify literature
 - ◆ **CLRES 2310 Systematic Reviews and Meta-Analyses: A Project Course.**

The target participants are junior faculty in the Department of Medicine. This is a mentored course with department of medicine faculty, including a statistician and two HSLS Librarians. This first year there is one junior faculty participant.
 - ◆ **Evidence-Based Practice for Educators: Role-Modeling and Teaching Evidence-Based Practice**

This course is an EBM faculty development seminar series in the Department of Medicine. The first two sessions in the series focused on enhancing faculty members' knowledge and skills in searching for evidence with an overview of the available evidence resources, and "hands-on" with participants bringing their own clinical questions and working at a computer to find the evidence. The HSLS EBM Pyramid was developed for this course. 26 department of medicine faculty participated in this course. HSLS librarians taught in the first two sessions:

 - Session 1 -Finding it the First Time: Strategies for Efficiently Searching the Literature, Part I
 - Session 2 -Finding it the First Time: Strategies for Efficiently Searching the Literature, Part II
 - ◆ **Medicine Subspecialty Educators**

HSLS librarian provided instruction to 20 subspecialty educators on the EBM resources that are available through the Health Sciences Library System. This session will be offered to several division faculty meetings such as nephrology. (26 attendees) The rheumatology and infectious diseases divisions will be scheduled in late summer 2008.
 - ◆ **Family Medicine Faculty Development Fellowship Program, Systematic Review Seminar Series**

HSLS librarian provided a 2-hour session on literature searching to support systematic reviews to 11 fellows.
 - ◆ **CME program for UPMC McKeesport physicians**

HSLS librarian provided two sessions on HSLS resources to 69 physicians.
 - ◆ **Lunch with a Librarian Program @ UPMC Horizon**

Each program offered on both campuses. 27 clinicians attended the first two programs offered, Google and Tips for Quick Searching. Additional programs scheduled through the fall of next year.

- ◆ **WPIC Post-Doc Survival Skills Seminar: Searching for & Finding Information You Can Use: the Process**

Offered to 18 post-docs and faculty.

Resident Training

- ◆ **WPIC PGY-I** training sessions included library orientation & MICROMEDEX instruction for incoming psychiatry residents and an Introduction to Evidence Based Mental Health, Parts I & II. (12 attendees/session)
- ◆ **Pediatrics – Unified Fellows** Course (all specialties together) at CHP. Expanded this year by request to 2 hour 'Orientation to HSLs'. The focus was on clinical resources. (30 attendees)
- ◆ **UPMC Shadyside Internal Medicine** residents overview of library resources (50) and Noon Conference-Looking for Evidence using HSLs (25 attendees)
- ◆ **Pathology residents** received an overview of HSLs services and resources. (8 attendees)
- ◆ Incoming **neurology residents** (12/session) were provided with six 90-minute sessions:
 - Overview of HSLs
 - MEDLINE Primer
 - Evidence Based Medicine resources
 - EndNote
 - Google Scholar vs. MEDLINE
 - Drug information resources
- ◆ **Pathology informatics residents** (12/session) were provided with 3 library sessions:
 - EndNote
 - Who Cited Whom
 - Optimizing your Literature Searches: Strategies for Success
- ◆ HSLs librarians attend Morning Report with **UPMC Montefiore** and **UPMC Shadyside Internal Medicine residents** to provide information in support of patient care and resident education.
- ◆ **UPMC Palliative Care Team Rounds-** HSLs librarian consulted with palliative care team fellows/residents to provide prognostic and drug information, cultural aspects of death and illness. He also assisted social workers and pastoral care workers with specific information needs.
- ◆ **CHP 2nd year resident's** project, with Dr Art Kovel, provides information support about pediatric office practices.
- ◆ All **UPMC residents** are required to complete the online module Health Sciences Library System orientation.

Nursing

- ◆ HSLs librarian is a member of the **UPMC System-wide Evidence Based Nursing Council**. The council is working at "hardwiring" evidence-based practice into the nursing environment at all UPMC hospitals. The Council continues to discuss and develop its specific goals and objectives. HSLs librarians also participate on individual UPMC Nursing Councils:

- **UPMC Shadyside Evidence-Based Nursing Council** members attended a session, 'Optimizing your Evidence Searches: Strategies for Success'
- HSLs librarian is a member of the **CHP Evidence-Based Nursing Council**
- **WPIC Nursing Research Council** - HSLs librarian continued to serve as a member of the council and provided instruction on evidence based practice and library resources. Instruction sessions for 35 nurses included
 - Review of database searching & intro to Patient Family Resource Center
 - HSLs books for writers in the health sciences
 - Locating ebooks & new mental health nursing books
 - Patient education solutions
- ◆ HSLs Librarians assisted **UPMC Shadyside nurses** with TCAB (Transitional Care at the Bedside) and Level 3 projects. TCAB projects require the nurses to find documentation to support the changes that they are proposing or initiating in the patient care areas.
- ◆ HSLs librarian provides information support for In-services/Journal clubs for nurses on the two Patient Care Units at **UPMC Shadyside**
- ◆ Library orientations for **CHP nurse educators** on an ongoing basis. Librarians provide approximately 6 sessions per year.
- ◆ "Nursing Research 101" included literature searching overview and evidence based nursing for 20 **CHP Advanced Practice Nurse/Nursing Research**
- ◆ HSLs Introductory class to 6 **CHP Nursing Fellows**.
- ◆ **Nurses from CHP neurology** department were orientated to HSLs. (12 attendees)
- ◆ Literature Review Classes for **Senior Professional Nurses at UPMC Presbyterian/Montefiore** attended by 24 nurses over 4 sessions.
- ◆ Evidence based nursing sessions were taught to 17 nurses at **UPMC Horizon**.
- ◆ Several HSLs librarians attend the **UPMC System wide Patient Education meetings**. Librarians review patient education documents for clarity and provide editing suggestions. Provide information to committee to help in this process.
- ◆ Introduction to WPIC/HSLs Resources and WPIC Library Tour for 62 **UPMC-Shadyside, UPMC-St. Margaret's, and LaRoche College nursing students** at WPIC for clinical psychiatry rotation.
- ◆ Introduction to HSLs resources, PubMed and CINAHL training sessions provided to 270 **UPMC Shadyside School of Nursing** students in 19 sessions. These sessions were held during the day, in the evening and on Sundays.

Other Clinical Groups

- ◆ Library orientation and tours for **new WPIC staff** (130 attended)
- ◆ Introduction to Database Searching and HSLs Patient Education Resources for **WPIC Social Workers**(36)
- ◆ **UPMC Shadyside Dietetic Interns** received a library orientation (4 attendees)
- ◆ HSLs librarian provided information to a **UPMC Shadyside Diabetes support group** on the topic of exercise and community resources (20 attendees)
- ◆ Orientation to UPMC Shadyside Hopwood Library and community resources to participants in the **Comprehensive Diabetes Education Program**, a two day program designed to help patients manage their disease.(12 attendees)

- ◆ **Central Testing and the Patient Education department** have continued the partnership with the UPMC Shadyside Hopwood Library sending their pre-op patients to the library to view the hospital produced pre-op joint replacement CD and the Heart Surgery: Preparing for Your Surgery.
- ◆ HSLs librarian provided library orientation to **UPMC Shadyside new employees, students and staff** from a variety of disciplines. The orientations covered library services and HSLs offerings in the library and remotely. (264 attendees)
- ◆ **CHP Child Life** in-service session was provided with a library orientation. (15 attendees)

Appendix D

HSLS Committee and Organizational Participation

Professional and Other National Organizations

- Steering Committee Member, Group on Information Resources, Association of American Medical Colleges
- Secretary, Libraries in Medical Education (LiME), Northeastern Group on Educational Affairs, Association of American Medical Schools
- Member, Assessment and Statistics Committee, Association of Academic Health Sciences Libraries
- Co-Chair, Program/Education Committee, Association of Academic Health Sciences Libraries
- Member, Regional Advisory Committee, Middle Atlantic Regional, National Network of Libraries of Medicine
- Member, Resource Sharing Committee, National Network of Libraries of Medicine Middle Atlantic Region.
- RML Consultant, National Network of Libraries of Medicine Middle Atlantic Region.
- Teaching member, National Center of Biotechnology Information (NCBI): Advanced Workshop for Bioinformatics Information Specialists.
- Chair, Leadership and Management Section, Medical Library Association
- Member, Committee for Advocating Scholarly Communication (Ad Hoc), Medical Library Association
- Member, Fellows and Honorary Members Jury, Medical Library Association
- Past Chair, Treasurer and Chapter Council Representative, Pittsburgh Regional Chapter, Medical Library Association
- Member, MLA Scholarships for Minority Students Jury
- Teaching member, NCBI Medical Library Association Course
- Scientific Advisor, Protein Lounge
- Co-chair, CONSER Standard Record Monitoring Group
- Member, Local Arrangements Committee of the Southern Association for the History of Medicine and Science for its 2010 annual meeting to be held in Louisville, KY.
- Member, Executive Board of the Southern Association for the History of Medicine and Science.
- Member, Program Committee for the Southern Association for the History of Medicine and Science's 2009 annual meeting.
- Member, Publications Committee of the Archivists and Librarians in the History of the Health Sciences.
- Member, Education Committee for the American Association for the History of Medicine.
- Member, Local Arrangements Committee for the November 2008 annual meeting of the History of Science Society to be held in Pittsburgh.
- Oversee activities of the C. F. Reynolds Medical History Society.

University of Pittsburgh

- Chair, University Senate Benefits and Welfare Committee
- Co-chair, University Senate Computer Usage Committee
- Member, Information Technology Steering Committee
- Member, Internal Advisory Committee, Clinical and Translational Science Institute

- Pro Tem Member, Senate Library Committee
- Member, Advisory Board, Genomic and Proteomic Core Facility
- Member, Advisory Board, Faculty and Staff Assistance Program
- Members, University's Faculty Assembly and University Senate
- Member, University Senate Budget Policies Committee
- Pro-tem member, University Senate Anti-Discriminatory Policies Committee
- Member, Provost's Advisory Committee for Women's Concerns
- Editorial advisor, *PittMed Magazine*.
- Member, Faculty Senate Committee for Elections
- Member, Faculty Senate Plant Utilization and Planning Committee
- Member, University Parking Appeals Board

UPMC

- Members, UPMC Physicians Advisory Council, Electronic Health Record
- Members, UPMC Patient Education Team
- Member, UPMC Shadyside Patient Education Committee
- Member, UPMC Evidence Based Practice Council
- Member, WPIC Nursing Research Council
- Member, UPMC Shadyside Nursing Research Council
- Member, Children's Hospital Nursing Research Council
- Representative, Student Support Services Committee, UPMC Shadyside School of Nursing

Appendix E

HSLs Staff Accomplishments (HSLs names in bold)

PEER REVIEWED PUBLICATIONS

Czechowski L, Friedman-Shedlov L.

Tales from the Shoulders of Giants: Collaborative Implementation of Encoded Archival Description at the University of Minnesota Libraries.

Journal of Archival Organization, 2007, 5(3):9-29.

Czechowski L, Cox E.

Subject Access Points in the MARC Record and Archival Finding Aid: Enough or Too Many?

Journal of Archival Organization, 2007, 5(4):51-59.

Kronenfeld M, Stephenson PL, Nail-Chiwetalu B, Tweed EM, Sauers EL, McLeod TC, Guo R, Trahan H, Alpi KM, Hill B, Sherwill-Navarro P, Allen MP, Stephenson PL, **Hartman LM**, Burnham J, Fell D, Kronenfeld M, Pavlick R, MacNaughton EW, Nail-Chiwetalu B, Ratner NB.

Review for librarians of evidence-based practice in nursing and the allied health professions in the United States.

Journal of the Medical Library Association. 2007 Oct;95(4):394-407.

Klem ML, Northcutt T.

Finding the best evidence, part 2: The basics of literature searches.

Journal of Emergency Nursing. 2008 Apr;34(2):151-3.

Spallek H, Irwin JY, Butler BS, **Weiss PM**.

Supporting the emergence of dental informatics with an online community.

International Journal of Computing in Dentistry, 2007 Jul;10(3):247-64.

OTHER PUBLICATIONS

Barbara Epstein. Ascending the leadership hierarchy. *Medical Library Association News*, 402:1,21, January 2008.

Detlefsen EG, **Epstein BA**, Oliver KB, Huynh C, Hang NTT.

Building Vietnamese Health Information Capacity: a report to the U.S. National Library of Medicine International Programs Office.

Bethesda MD: NLM, 2007

John Erlen, published Dissertation bibliographies in " in *Journal of the History of Medicine and Allied Sciences*, *Nursing History Review*, *History and Technology*, *Canadian Bulletin of Medical History*, *AVISTA Forum Journal Medieval Science*, *Technology, & Art*, *Journal of the History of Medicine and Allied Sciences*, and on the Web log SHOTnews.com.

John Erlen reviewed "Divide and Conquer: A Comparative History of Medical Specialization" by George Weisz, New York: Oxford University Press, 2006 in *Canadian Journal of History*, 2007, 62: 388-90. and "Toxic Drift: Pesticides and Health in the Post-World War II South" *The Watermark*, 2007 30(2): 36-7.

Carrie Iwema, "18 Ways to Improve your PubMed Searches" on the Internet blog *BiteSize Bit*, March 5, 2008.

John Siegel "Internet Resources: Testicular Cancer" in *MLA News*, 2008 Apr, 405:10.

Pat Weiss reviewed "Managing Electronic Records" edited by Julie McLeod and Catherine Hare, London, UK: Facet Publishing, 2005 in *Journal of the Medical Library Association*, 2007, 95(3): 361-362.

The **HSLs Molecular Biology Service** was featured in the article "Pitt Scientist-Librarians Guide Researchers" in *University Times*, 40(8), December 6, 2007.

EDITORS

Michele Klein-Fedyshin

Hospital Library Associate Editor for the Journal of the Medical Library Association

Patricia Weiss

MLA News Technology Co-Editor

REVIEWERS

Nancy Tannery

Reviewer for *BMC Medical Education*

PRESENTATIONS

Ahlam Saleh presented a paper titled "The Influence Of An EBM Focused Morning Report On Resident Physician Use Of MEDLINE and UpToDate", at the Medical Library Association Annual Meeting 2008. Co-authors were **Nancy Tannery, Charles Wessel**, Scott Herrle, Bruce Lee, Megan Cunnane, Rosanne Granier, Elizabeth Weinstein, and Raquel Buranosky. This paper was awarded an MLA Research Award (2d place)

Frances Yarger presented a workshop titled "User-Centered, Cross Functional IT Leadership: The Good, the Bad, and the Unknown, at the annual meeting of the AAMC Group in Information Resources, 2008.

Ansuman Chattopadhyay presented a poster titled "The Online Bioinformatics Resources Collection (OBRC)" at the American Medical Informatics Association meeting, 2007. Co-authors were **Yi-Bu Chen, Jill Foust, Nancy Tannery**, and **Barbara Epstein**.

Barbara Epstein gave a lecture titled "Open Access and the NIH Public Access Policy" at West Virginia University on April 26, 2008.

Michele Klein Fedyshin, participated on a panel discussion of library assessments and presented “Quantum Physics and Hospital Library Assessment”, presented at the Medical Library Association Annual Meeting 2008.

Ester Saghafi, presented, “Show Me the Evidence: Helping Mental Health Professionals Track Down the Best Evidence” at the Association of Mental Health Librarians conference, October 2007.

Carrie Iwema presented a poster titled “Biology in silico: Creation of an online bioinformatics portal for clinicians, researchers, & students” at the Medical Library Association Annual Meeting, 2008. Co-authors were **John LaDue**, **Fran Yarger**, and **Ansuman Chattopadhyay**.

John Siegel presented a poster titled “Making the Connection: Assessing The Information Literacy Skills of First-Year Students Enrolled in a Doctor Of Dental Medicine (DMD) Program”, at the Medical Library Association Annual Meeting 2008.

Melissa Ratajeski presented a poster titled “Customizing EndNote for Institutional Animal Care and Use Committee (IACUC) Protocol Searches” at the Medical Library Association Annual Meeting 2008.

Jill Foust presented a poster titled “Simplified Selection of Web Content: Balancing Library Expertise with User Data” at the Medical Library Association Annual Meeting 2008.

Linda Hartman, Missy Harvey, Roye Werner, and Debbie Murphy, jointly presented a poster titled “QoLT Mine: Creating a Knowledge Base” at the National Science Foundation Engineering Research Center site visit of the Quality of Life Technology (QoLT), Pittsburgh PA, 2008.

Charles Wessel taught Medical Library Association CE course titled *Number, number who’s got the number or who’s counting? health statistic sources* at the North Atlantic Health Sciences Libraries, a regional chapter of the Medical Library Association .

Ester Saghafi and **Rebecca Abromitis** co-taught Medical Library Association CE course titled *Measure for Measure: Locating Information on Health Measurement Tools*, at the annual meeting of the Medical Library Association

John Erlen, presented “New Primary Resources for History of Medicine and Science: The EU Archives at the University of Pittsburgh” at the Southern Association for the History of Medicine and Science annual meeting, Gainesville, FL February, 2008.

John Erlen was a guest lecturer for 4th year medical students at the University of Chicago Pritzker School of Medicine. Erlen presented "Rare Books and Their Place in History of Medicine Studies", "History of Medicine Resources on the WWW", and "Alternative Medicine in the United States: Past, Present, and Future"