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

Annual Report - FY 2010-2011
(July 1, 2010 – June 30, 2011)

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 UPMC through development and provision of innovative information resources and services.

HSLS includes the following libraries:

• *Falk Library of the Health Sciences* serves as the flagship of the HSLS, with a wide-ranging collection of biomedical and health-related journals and monographs as well as a specialized collection of rare and historical materials. The Computer and Media Center (CMC) offers computing and Internet access, as well as educational, productivity, and media software packages. The CMC has more than 75 available computers including circulating laptops and tablet computers, as well as two classrooms equipped for group computer instruction, and four group study rooms. The University's wireless network is available throughout the library. Falk Library is open 110 hours per week.

• The *James Frazer Hillman Health Sciences Library* and the *Hopwood Library: A Health Resource Center for Patients and Families* at UPMC Shadyside provide books, journals, audiovisuals, and computers to support clinical practice and patient/family education. This combined library facility is open 42.5 hours per week.

In June 2011, the HSLS staff included 27 faculty librarians, 27 paraprofessional and technical staff, and 4 FTE student assistants. HSLS serves more than 55,000 primary clients, including health sciences faculty, staff, students, residents, and employees of UPMC hospitals.

A statistical overview of HSLS is included in Appendix 1.

The accomplishments and activities described in this Annual Report are organized in accordance with goals identified in the *HSLS Long Range Plan, 2010/11-2015/16.*

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 2011, the combined resources of HSLS libraries total approximately 360,000 print volumes, including more than 180,000 monographs. Approximately 170,000 older print journals and books are housed at the HSLS offsite storage facility, located about five miles from Falk Library. HSLS has increasingly shifted toward providing information electronically. Library users have access to more than 5,000 electronic journals in the health sciences. Similarly, the electronic collection includes 3,000 e-books and 97 databases or publisher collections of full-text information.

In 2010-2011, 16,900 books were borrowed or renewed in HSLS libraries. This is a slight decrease from the previous year. Circulation statistics for Falk Library's print books 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.

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. Each week, there is an average of 43,000 page views of the HSLS Web site. Popular HSLS pages include the HSLS homepage featuring library news and easy access to library resources and services, Journals A-Z list, Molecular Biology site and the Clinical Focus federated search tool.

During the past year, planning for the continued growth of library-based web tools and discovery systems led HSLS to migrate its Web site Content Management System to Drupal. The updated server backbone also includes the latest versions of Apache, PHP, and MySQL. In all, this upgrade has created a robust and dynamic platform to support continued online growth. In addition, HSLS updated its domain-knowledge, federated search tools with new licensed resources and moved to an upgraded Vivísimo Velocity platform. These HSLS search tools include the full-text ebook search, Search.Molbio, Search.Consumer Health and Clinical Focus.

The Molecular Biology portal was redesigned with Web 2.0 features such as links to Facebook and Twitter. Fifty two video tutorials with computer screen recordings displaying the use of bioinformatics software were added to the site. *The HSLS Online Bioinformatics Resources Collection (OBRC)* was updated with 127 new entries and now contains 2,823 active links to online bioinformatics software and databases.

The addition of interactive chat capability in the form of a chat widget was added to the Ask-A-Librarian web page this past year. The chat widget is a small, self-contained interface for real-time conversation with a reference librarian. Chat provides another method for users to contact the library.

4,681 HSLS users have Document Delivery accounts. During the past year, HSLS users requested 8,838 journal articles or books. 6,171were filled from HSLS collections and 348 from other Pitt libraries. Only 2,319 were borrowed from outside institutions, a decrease from the previous year. This is a strong indication that HSLS collections continue to satisfy user needs.

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 onsite use if needed. There were over 4,300 requests for materials at HSLS' off-site storage facility during the past year.

Computer Services supports medical education technology by providing both public and behind–the-scenes services for students and faculty. Circulating laptops and iPads, group study rooms, high-powered and well equipped computers in all HSLS libraries, a fully staffed

computer support desk at Falk Library are a few examples of this support. Falk Library's group study rooms continue to be a popular location for students, staff and faculty in the schools of the Health Sciences. In 2010-2011, over 2,650 groups used the rooms for a total of 9,300 hours. This is a 30% increase in use from the previous year.

In FY 2010-2011, Falk Library's Computer & Media Center (CMC) supported over 370 classes. Along with providing physical space for HSLS classes, the CMC staff members provide technology for Falk Library's conference rooms, training for classroom technology and specialized software services such as those required for Endnote and Molecular Biology classes.

In September 2010, HSLS began circulating Apple iPad tablet computers as an addition to its established laptop program. The circulating iPads have been a great success, with over 1,200 circulations in the 10-month period. Laptops are still in demand as well, with over 2,700 borrowed during the year. In addition to the circulating technology, the library also provides guest wireless Pitt accounts for UPMC users. In the past year, the library has sponsored over 130 guest wireless accounts for UPMC patrons to seamlessly access HSLS resources.

The HSLS Technical Services department creates and manages 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. Inventories are completed to ensure updated and accurate information is available about the library's holdings.

The Technical Services department also oversees the materials in Falk Library's collection of rare books. This year, a small collection of materials from the 27th General Hospital in New Guinea from World War II was made available online. A detailed finding aid was created describing the materials and highlighting unique reports such as the use of penicillin in an army field hospital. The slides were scanned for long-term preservation and to use in an online exhibit (see http://www.hsls.pitt.edu/about/libraries/falk/rarebook/wwii).

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

HSLS liaison librarians provide curriculum and information 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 the 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 and provided orientations and instruction within the curriculum. They also provide support for faculty conducting research. Some of the liaison librarians attend curriculum committee meetings and have secondary appointments within their school. The GSPH liaison librarian is embedded 50% of the time within the school. Other liaison librarians send weekly emails to the faculty updating them on new library information, or have weekly office hours.

A 'longitudinal librarian' program for medical students continues into its second year. Each incoming medical student is paired with his or her longitudinal librarian, who will be available during all four years of medical school to provide one-on-one assistance. The longitudinal librarian can provide personalized library assistance and advise on the selection and use of

bibliographic resources, assist with the literature search process, and support literature evaluation. .

Bioinformatics workshops and consultations continue to be in high demand. Hands-on bioinformatics workshops covering 18 topics were offered 37 times to 573 attendees. For the second time, the Molecular Biology Information Specialists developed and taught a one-credit hour graduate level course on bioinformatics to12 students through the Institute for Clinical Research Education. In total, 967 researchers received hands-on bioinformatics training from 65 teaching sessions. One–on-one consultations on bioinformatics queries were offered to 201researchers, also an increase over last year.

New this year, librarians began providing library orientation sessions to health sciences students enrolled in the Pitt Online program. Also new, an academic/writing integrity presentation was developed for an Institute for Clinical Research Education course.

In FY 10-11 liaisons provided orientation and instruction to over 4,000 students in the health sciences.

HSLS librarians provide extensive instruction and support for clinical and research activities to physicians, nurses and other clinical staff of UPMC hospitals. 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, nurses, UPMC Evidence-Based Nursing Councils, occupational therapists and dieticians.

The Head of Hospital Services provided instructional programming at the UPMC hospitals. Sixteen presentations were made to over 160 clinicians at various UPMC facilitates. An eight month series of training sessions on literature searching was provided to general internal medicine residents during their EBM Journal club

UPMC Shadyside librarians offered 100 workshops to 1,187 Shadyside clinical staff, students and patients/consumers. Librarians also provided 65 information consultations to 77 requestors.

In FY 10-11 HSLS librarians provided orientation and instruction to over 2,200 physicians, nurses and clinical staff members at UPMC

Online instruction modules include:

- *Learning @ Your Pace* (www.hsls.pitt.edu/services/learning_at_your_pace) offers 14 Introduction to HSLS modules that were viewed 1,000 times.
- *Best of HSLS* was developed for the School of Medicine's Navigator Web site, which contains the school's online curricular materials. It contains 29 individual modules.
- Responsible Literature Searching is part of the Internet-based Studies in Education and Research. http://cme.hs.pitt.edu/ 250 users completed the module last year**.**
- Five Guided Tours on the Molecular Biology portal were viewed 1,135 times
- 52 video tutorials with computer screen recordings displaying the use of bioinformatics software were viewed 295 times.

Over 2, 600 users accessed online library information and resource presentations.

In addition to liaison librarian instruction and instruction at UPMC hospitals, HSLS librarians and staff provided in-house instruction on an open-registration basis to 850 attendees. The HSLS

roster of classes has expanded to over 40 workshops, including orientation sessions, topical "Lunch with a Librarian" series, and workshops on HSLS electronic resources, bibliographic management, and software training. CMC staff members develop and teach a variety of classes such as "Advanced PowerPoint", "Beginners Photoshop", "Adobe Photoshop for Beginners" and the popular "WOW Factor: Posters Made with Microsoft PowerPoint". Requests for one-on-one information consultations increased to 560 in FY010-11.

During the past year, an online class evaluation form was developed for HSLS classes. This new tool allows class attendees the opportunity to provide feedback about the class and suggest new class topics.

In total HSLS librarians and staff provided instruction, orientations or tours to over 8,800 faculty, students and staff and the University and UPMC. This number includes both face-to-face and online instruction and orientations.

Librarians performed 1,385 database searches by request. Of these, 380 were requests for clinical information, 730 supported education or research and 269 were consumer health related. Users are asking for more in-depth assistance with projects such as writing systematic reviews and practice guidelines. These requests require expert skills and are considerably more time-consuming than in the past. HSLS Librarians participated in 14 complex systematic review projects in the past year. To assist in workflow management, an online dashboard was developed to track progress on systematic review projects.

New in this past year, UPMC Shadyside librarians worked closely with the UPMC Cancer Centers Nursing Policy and Guideline Committee to help its members at diverse UPMC locations to stay current in evidence-based oncology literature to update the Centers' 60+ guidelines and policies.

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 information services. Representative activities are listed below:

- *HSLS Update,* the library newsletter, is produced six times a year and distributed electronically.

- Short news or informational items as well as class schedules were submitted to *UPMC Extra!* and *UPMC Physician*.

- Pitt's *University Times* featured articles about HSLS during the year:
    - "Knowing your genetic profile: better, faster technology expected soon, info specialist says" featured HSLS Molecular Biology Information Specialist

    - "HSLS to serve as regional medical library"

- Display cases in Falk Library and UPMC Shadyside libraries are used to promote various health topics, new resources or new technologies.

- Weekly updates emailed to School of Dental Medicine faculty.

- Email welcome message sent to new faculty in the Schools of Medicine, Nursing, Health and Rehabilitation Sciences, Pharmacy and Public Health.

- Rotating news items on the front page of the HSLS web site

- Weekly emails distributed to UPMC Presbyterian/Shadyside announcing classes at HSLS libraries.

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

A. Internal partnerships and collaboration

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.

HSLS Librarian attends UPMC Shadyside Internal Medicine Blue Team Teaching Rounds to provide information support.

HSLS Librarian attends UPMC Presbyterian-Montefiore Palliative Care Team Rounds and Shadyside Palliative Care Team Rounds to provide information support

HSLS librarians support Nursing Evidence Based Practice Research Councils at UPMC Presbyterian, UPMC Shadyside, and WPIC.

HSLS librarian is a member of the E-practice Guideline Committee, providing literature support to clinicians as guidelines are in development.

HSLS librarian provides support to the Institutional Animal Care and Use Committee (IACUC) by attending monthly meetings and providing one-on-one consultations and conducting 117 literature searches in support of IACUC proposals.

HSLS librarian is a co-investigator on a funded grant to develop self-report measures of eight factors (e.g., spirituality, locus of control) believed to be important in the healing process (PI: Carol Greco, The Healing Context In Cam: Instrument Development And Initial Validation).

The Public Health Informationist/Librarian spends 50% of time in the Center for Public Health Practice (CPHP). Part of this responsibility is providing Pennsylvania Public Health Training Center (PAPHTC) sponsored training on Grant Writing Basics, in Pittsburgh Washington County, Philadelphia and Bradford. The Informationist also attended Directors' meetings, and provided information support to CPHP directors, including grant opportunity autoalerts, mediated searches, and subject-oriented alerts in Scopus and MEDLINE.

B. **External partnerships and collaboration**

A major activity during the past year was preparation and submission of a successful proposal to serve as the Regional Medical Library (RML) for the Middle Atlantic Region of the National Network of Libraries of Medicine (NN/LM-MAR). The NN/LM consists of eight competitively selected RMLs and over 6,000 health sciences and public libraries. Our Middle Atlantic Region includes the states of New York, New Jersey, Delaware and Pennsylvania.

Since its original authorization by Congress in the 1965 Medical Library Assistance Act, the NN/LM has worked to equalize and enhance access to health sciences information throughout the United States. The eight RMLs and the NN/LM member network support the National Library of Medicine's outreach efforts to health professionals and consumers to increase awareness, facilitate access, and provide training in the use of NLM's many Web-based information services, such as MEDLINE/PubMed, MedlinePlus, and ClinicalTrials.gov. As a Regional Medical Library, we will work with a variety of intermediaries, including health sciences librarians, health care providers, public health professionals, public librarians, educators, community organizations, community colleges, health advocacy groups, faith-based organizations, and self-help groups, to promote access to health sciences information.

Competing for this five-year contract involved researching and developing plans for programs and services, gaining support from network members in our region, hosting a site visit by the review team, and responding to several rounds of questions and clarifications for both the technical and business proposals. This was a community effort with participation and support from HSLS staff members and librarians, Pitt's Office of Research, the Senior Vice Chancellor's office, and Pitt health sciences faculty and deans who participated in the site visit and wrote letters of support. We also received support letters from librarians throughout the region, and commitments from nearly 30 academic health sciences libraries to serve as MAR resource libraries.

The contract was awarded on May 1, 2011. HSLS Director Barbara Epstein serves as NN/LM MAR Director. Renae Barger, formerly HSLS assistant director for Access Services, was appointed MAR Executive Director, to oversee daily operations and programming. The NN/LM-MAR staff will also include four librarian-coordinators, and an administrator
In addition to the NN/LM contract, HSLS participated in several other outreach activities. In October 2010, HSLS hosted "The Promise of Mobile Computing in Healthcare" conference, a day of mobile technology demonstrations and how-tos. Representatives from UPMC and the University, along with notable guest speakers, shared their perspectives on mobile computing and health care with an audience of over 100 attendees. A panel discussion, hosted by   UPMC chief medical information officer Dr. Daniel Martich included panelists Dr. Roman Cibirka (Medical College of Georgia), Iltifat Husain (founder of iMedicalApps.com), Dr. Rasu Shrestha (UPMC), and Dr. Pamela Smithburger (University of Pittsburgh School of Pharmacy), who weighed in on topics ranging from the fundamental use of mobile devices in medical school and health care; to how patients can use text messaging as part of their personalized health care plan. Break-out sessions included other Pitt health sciences faculty, Dr. Philip Empey, (School of Pharmacy), Dr. Ansuman Chattopadhyay, (Head, HSLS Molecular Biology Information Service) and Nancy Tannery (HSLS Senior Associate Director).

In February and March 2011, HSLS hosted *Harry Potter's World: Renaissance Science, Magic and Medicine*, a traveling exhibit from the National Library of Medicine coordinated by the American Library Association. Several hundred students, faculty and visitors toured the exhibit. Stephen Greenberg, PhD (coordinator of Public Services, History of Medicine Division, National

Library of Medicine), Sylvia Pamboukian, PhD, (assistant professor of English Studies at Robert Morris University), and Lori Campbell, (lecturer and departmental advisor, Department of English and Film Studies Program at the University of Pittsburgh) presented lectures related to the exhibit. To prepare for the exhibit, HSLS also sponsored monthly Harry Potter movie nights in Scaife Hall during fall 2010.

On April 6, 2011, the UPMC Arthritis Center, the Western Pennsylvania Chapter of the Arthritis Foundation, and HSLS faculty librarians at the UPMC Shadyside Library jointly sponsored "Latest Advances in Rheumatoid Arthritis" as part of the UPMC Alive & Well program. Alive & Well is a series of free health education presentations for the general public. There were over 100 attendees including patients, family members, Arthritis Foundation volunteers and healthcare professionals.

In 2009, the University's School of Information Sciences (SIS) and HSLS were jointly awarded a three-year grant for $991,311 from the Institute of Museum and Library Services (IMLS) to support the development of a yearlong, 15-credit Post Master's Degree Certificate of Advanced Studies in Health Sciences Librarianship (HealthCAS). The program's goal is to offer specialized preparation for professional positions in health sciences libraries through online coursework, an applied research project, mentoring experiences, and attendance at the annual meeting of the Medical Library Association. Nine HSLS librarians participate as instructors for the three courses. The first cohort of 12 students graduated in May 2011 and all the students presented the results of their research projects in poster sessions at the Annual Meeting of the Medical Library Association. Student evaluations were very positive. All of them agreed the strength of the course was the experienced HSLS faculty librarian instructors. The second cohort of 11 students also began in May 2011.

HSLS librarians collaborate in other ways with the University's School of Information Sciences (SIS). One SIS field placement students spent 150 hrs (3 credits) working with HSLS librarians on projects at Falk Library. We hosted 2 Partners Program students this past year. These students received practical training and hands-on library experience in addition to salary support and reduced tuition.

A nationally recognized 2.5 day Systematic Review workshop is co-taught by 5 HSLS librarians. Its goal is to provide participants with an understanding of the theory and practice of systematic reviews and the librarian's role(s) in the systematic review process. The workshop is limited to 22 participants. The workshop was offered 3 times this past year. Each series filled within weeks of announcement.

HSLS collaborated with the NLM-funded Biomedical Informatics Training Program in the School of Medicine's Department of Biomedical Informatics (DBMI) to develop a Traineeship in Health Sciences Librarianship and Biomedical Informatics. In FY 2010-2011 one trainee completed the year long program.

HSLS hosted a first year National Library of Medicine (NLM) Associate Fellow for one week in April 2011. During her visit, she met with various library faculty, and also gave a presentation to library faculty about her projects at NLM.

HSLS librarians participate in national cataloging projects.
  – CONSER, a cooperative serials cataloging organization, is undertaking a one-year project to create high-quality records for open access journals. HSLS is one of 25
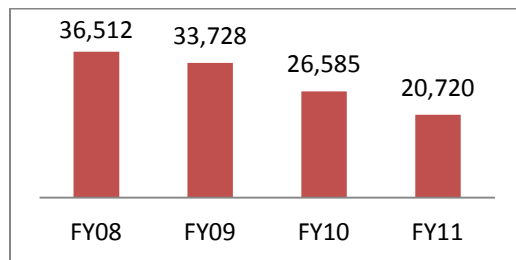
libraries, including the Library of Congress, participating in the project and contributes catalog records for open access journals in the health sciences.

- Librarians are also participating in the national evaluation of a newly developed cataloging standard. Published in June 2010, *Resource Description and Access* (RDA) is a major revision to cataloging practice, incorporating new organizational theory and addressing the many new kinds of information tools and formats which did not exist when the current standards (*Anglo-American Cataloging Rules*, 2nd ed., 1978) were written. The national libraries of the United States (Library of Congress, National Library of Medicine, and the National Agricultural Library) are currently undertaking a major test of these new guidelines to determine the impact on library workflows and online catalog retrieval. HSLS is among 14 institutions forming a secondary testing group, which will create sample records according to RDA guidelines, contribute them to a test database, and complete surveys about the process. The results of the different testing processes will be a key factor in American libraries' decisions on whether or not to implement the new standard.
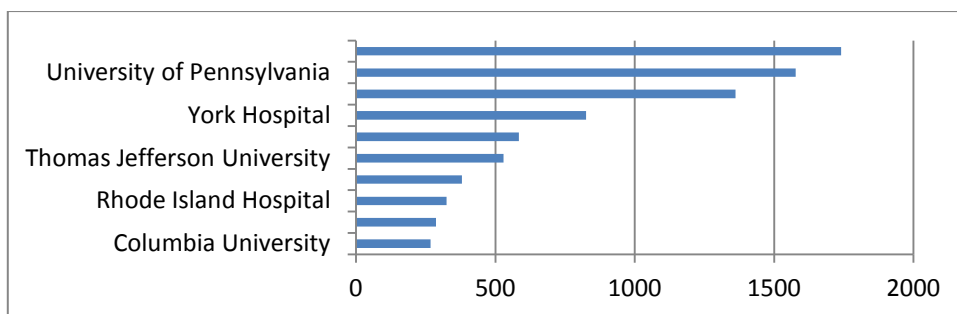
Consumer/patient programming at UMPC Shadyside libraries included: Hopwood summer reading list of "staff picks", a "Basket of Fun" summer raffle, tour and overview of Hopwood service to the Shadyside Auxiliary and instruction within the Diabetes Support group monthly programs

HSLS librarian is a member of the committee from the National Network of Libraries of Medicine, Middle Atlantic Region tasked with developing and implementing a "value of libraries planning study" to measure the value of the health sciences library, library services, and librarian.

HSLS is also a major participant in interlibrary loan programs. In FY 2010-2011, 20,720 lending requests from libraries throughout the United States and beyond were received and filled. This is, however, a reduction from previous years, reflecting a national downward trend in interlibrary loan requests.

HSLS filled requests for 937 different libraries across the U.S. and around the world. Below are the top borrowing libraries, and the number of articles provided

University of Pennsylvania

York Hospital

Thomas Jefferson University

Rhode Island Hospital

Columbia University

HSLS has continued to offer discounted ILL service to Pennsylvania and Delaware hospital libraries with fewer than 500 beds.

In summer 2011, HSLS librarians provided support to the University of Pittsburgh Health Career Scholars Academy. Librarians offered information literacy instruction and one-on-one consultations with the students to assist with their research project.

HSLS continues to host the School of Medicine's Laboratory for Educational Technology's (LET) server environment. With a complex infrastructure including both home grown systems, commercial products and a separate Medical School firewall, our team provides excellent service and reliability for the Zone, Navigator and VP Sim. In FY 2010-2011 HSLS has:
  – Transitioned Navigator and the database server to new hardware
  – Created a new search server for LET
  – Assisted in launching a robust and high availability server system for Navigator.
  – Assisted LET in building a slide slicing workstation
  – Provided off-hours status monitoring of web sites to minimize downtime.

HSLS Director and Associate Director for Computer and Metadata Services attend quarterly UPMC Physician Advisory Council (PAC) and continue on-going collaboration with UPMC physician and IT leadership to enhance clinical information seeking tools.

HSLS Librarians participate as members of numerous committees and organizations within and outside of the University – see Appendix 2

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 to plan proactively for personnel transitions, when possible. Incorporating the new contract to serve as the Regional Medical Library for NN/LM-MAR in the library organization led to several management changes:

Renae Barger, formerly Assistant Director for Access Services, was promoted to Executive Director of the Middle Atlantic Region of the National Network of Libraries of Medicine

Leslie Czechowski, formerly Assistant Director for Collections and Technical Services, transitioned to serve as Assistant Director for Access Services.

Jeff Husted was promoted to Acquisitions Librarian.

Nancy Tannery, formerly Associate Director for User Services, was promoted to Senior Associate Director.

Fran Yarger, formerly Assistant Director for Computer Services, was promoted to Associate Director for Computer and Metadata Services.

The HSLS Executive Committee was disbanded and reconstituted as the HSLS Management Council, which meets bi-weekly with the following membership:

Barbara Epstein, Director (Chair)
Nancy Tannery, Senior Associate Director
Fran Yarger, Associate Director for Computing and Metadata Services
Renae Barger, Executive Director, NN/LM-MAR
Leslie Czechowski, Assistant Director for Access Services
Ansuman Chattopadhyay, Head, Molecular Biology Information Service
Charles Wessel, Head, Hospital Services
Gosia Fort, Head, Technical Services
Jeffrey Husted, Acquisitions Librarian

HSLS Computer Services staff provide extensive support for faculty librarians for learning about and integrating technology into their professional workload. In FY 2010-2011, Computer Services staff created tutorials and classes for HSLS librarians on using Jing, iPads, Camtasia, and other emerging technologies. They also worked with HealthCAS instructors to produce online introduction videos including an online version of the Wow Factor workshop.

HSLS faculty librarians received Apple iPads to assist in creating virtual offices and classrooms in support of their work with students, researchers and clinicians. This project was partially funded through a grant from the NN/LM Middle Atlantic Region (National Library of Medicine, National Institutes of Health, Department of Health and Human Services, under Contract No. NO1-LM-6-3501 with New York University)
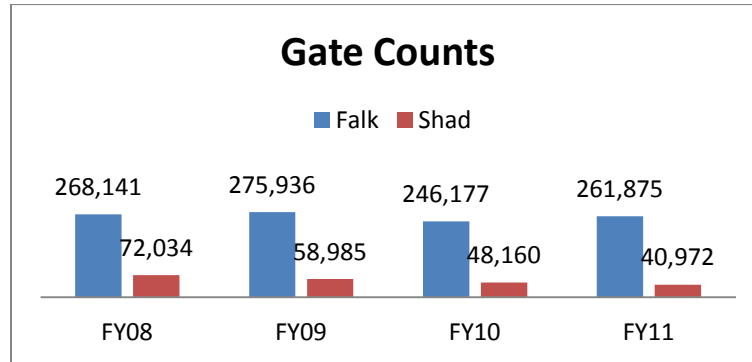
HSLS librarians participated extensively in professional development activities, paper and poster presentations at professional meetings, and published in peer-reviewed journals. The activities are listed in Appendix 3.

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.

In Falk Library, a remodeled entry featuring new security standards near the front doors and new flooring was added January 2011. Falk Library also updated its copiers and printers with a new cash payment system. Among other improvements, users have the option to get a receipt when paying with cash.

While use of the library's digital collection continues to rise, the gate count for each library remains steady, as illustrated in the chart below.   Surveys indicate the large majority of onsite library users are students.

Gate Counts

■ Falk ■ Shad

	FY08	FY09	FY10	FY11
Falk	268,141	275,936	246,177	261,875
Shad	72,034	58,985	48,160	40,972

APPENDIX 1

HSLS Statistical Overview: FY 2010-2011

Collections:

Physical Volumes: 370,028 (47% (173,465) in offsite storage)

Serials/Journal Titles: 3,862

Staffing

Faculty Librarians: 26.1 FTE

Total HSLS Staff and Faculty: 55.73 FTE

Use of Library Services & Resources

Gate Count (Persons Entering the HSLS Libraries): 302,847

Page Views of HSLS Website: 5,636,248

Circulation of Print Materials: 23,563

Items Borrowed or Received from Other Libraries through Interlibrary Loan: 2,667

Items Sent to Other Libraries through Interlibrary Loan: 20,720

Reference Transactions: 25,639 (20% (5,165) conducted electronically)

Attendance at Library Onsite, Remote and Online Instructional Sessions: 8,800

APPENDIX 2

COMMITTEE PARTICIPATION BY HSLS FACULTY LIBRARIANS

- Members, University's Faculty Assembly and University Senate
- Member, University Senate Budget Policies Committee
- Vice President, University Senate Benefits and Welfare Committee
- Representative, Student Support Services Committee School of Nursing UPMC Shadyside
- Member, School of Dental Medicine Curriculum Committee

- Editorial advisor, *PittMed Magazine*.
- Executive Board member, C. F. Reynolds Medical History Society
- Member, University Information Technology Steering Committee
- Members, UPMC Patient Education Team
- Member, Patient Education Committee UPMC Shadyside

- Member, UPMC Evidence Based Practice Council
- Member, WPIC Nursing Research Council
- Member, UPMC Shadyside Nursing Research Council
- Member, UPMC ePractice Guideline Committee

- Member, Resource Sharing Committee, National Network of Libraries of Medicine Middle Atlantic Region.
- Hospital Library Associate Editor for the *Journal of the Medical Library Association*.
- Reviewer for *Journal of the Medical Library Association*
- Member, Kronick Traveling Fellowship Jury for 2010-11, Medical Library Association (MLA)
- Convener, MLA Molecular Biology & Genomics Special Interest Group

- Member, MLA Section Program Planning Committee for 2011 annual meeting
- Member, MLA Grants & Scholarships Committee.
- Chapter Alternate Representative for Chapter Council, Mid Atlantic Chapter of MLA
- Co-chair, MLA National Chapter Council Sharing Roundtable committee.
- Convener, Institutional Animal Care and Use Special Interest Group (SIG) of MLA.

- Chair, MLA Beatty Award Jury Committee for 2010-2011
- Member, National Programming Committee for MLA
- Co-chair, CONSER Multiple Format Linking Group
- Member, CONSER Open Access Cataloging Project
- Member, American Library Association review panel

- Co-chair-designate of the Future Leadership Committee of the Association of Academic Health Sciences Libraries (AAHSL).
- Member, Association of Academic Health Sciences Libraries / Libraries in Medical Education task force
- Participant in the Leadership Forum of the Association of American Medical Colleges (AAMC), held in Arlington, VA, on December 15-16, 2010. The Forum's topic was "Creating the Physician I Need in the System I Want."
- Chair-elect, Libraries in Medical Education (LiME), a special interest group, of the Northeastern Group on Educational Affairs of the AAMC

APPENDIX 3

AWARDS

Nancy Tannery was the recipient of the Medical Library Association's (MLA) 2011 Estelle Brodman Award for the Academic Medical Librarian of the Year. The award recognizes "an academic medical librarian at mid-career level who demonstrates significant achievement, the potential for leadership, and continuing excellence." She received the award at the MLA annual meeting on May 16, 2011.

PUBLICATIONS BY HSLS FACULTY LIBRARIANS

Blazeck, A. **Klem, M**., and Miller, T. (2011). Building evidence-based practice into the foundations of practice. Nurse Educator, 36(3), 124-127.

Ketchum AM, Saleh AA, Jeong K. (2011) Type of evidence behind point-of-care clinical information products: a bibliometric analysis. J Med Internet Res. Feb 18;13(1):e21.

Folb BL, **Wessel CB**, Czechowski LJ. (2011) Clinical and academic use of electronic and print books: the Health Sciences Library System e-book study at the University of Pittsburgh. J Med Libr Assoc. Jul;99(3):218-28.

Klein-Fedyshin M (2010) It was the worst of times, it was the best of times: positive trends influencing hospital libraries. J Med Libr Assoc. Jul;98(3):196-9.

Epstein BA, Tannery NH, Wessel CB, Yarger F, LaDue J, Fiorillo AB. (2010) Development of a clinical information tool for the electronic medical record: a case study. J Med Libr Assoc. Jul;98(3):223-7.

Rodriguez-Gil DJ, Treloar HB, Zhang X, Miller AM, Two A, **Iwema C**, Firestein SJ, Greer CA. (2010) Chromosomal location-dependent nonstochastic onset of odor receptor expression. J Neurosci. Jul 28;30(30):10067-75.

Czechowski L, Barger R, Fort M, Maxeiner G (2010) Letting go: Closing a branch library of the Health Sciences Library System, University of Pittsburgh. Libr Resour Tech Serv July;54(3):153-163.

Chatfield AJ,**Ratajeski MA**,Wang J,Bardyn TP (2010) Communicating with Faculty, Staff, and Students Using Library Blogs: Results from a Survey of Academic Health Sciences Libraries Internet Reference Services Quarterly, July 15(3): 149-168.

Klein-Fedyshin,M Information Practice, chapter12 Medical Library Association Guide to Managing Health Care Libraries. 2nd Ed. 2011. Eds Bandy, MM and Dudden RF. Neal-Schuman Publishers, NY.

Epstein BA, "Do Open Access Initiatives Influence Journal Collection Development Decisions? A Report from the Ad Hoc Committee for Advocating Scholarly Communication" in *Medical Library Association News*, 50(10):1,9, November/December 2010.

Ratajeski M, Dixon A "Chapter Council Presents Sharing Roundtables: 2010 Report and 2011 Survey" in *Medical Library Association News*, 50(9):15, October 2010.

Erlen J, Dissertations Recently Completed in Related Fields(2010) *Journal of the History of Sexuality,* 19(3): 600-601

Erlen J Conway M. Disability Studies Abstracts (2010)*The Review of Disability Studies: An International Journal*, 6(2):62-63, 2010,.

Erlen J Dissertations/Theses (2010) *Canadian Bulletin of Medical History*, 27(2): 425-6.

Erlen J Recent Dissertations on Alcohol, Drugs, Tobacco and Addiction (2010) *History Social History of Alcohol and Drugs*, 24(1): 37-8.

Erlen J Dissertations (2010) *International Journal of Healthcare & Humanities*, 5(5): 30-2.

Erlen J Toth J Recent Dissertations (2010) *American Indian Quarterly*, 34(4):548-51.

 Erlen J Conway M. Disability Studies Abstracts (2010)*The Review of Disability Studies: An International Journal* 7(1): 70-72, 2011.

PRESENTATIONS

Marshall JG, Sollenberger JF, Easterby-Gannett S**, Klem ML**, Morgan LK, Oliver KB, Brewer K, Cavanaugh S, Dunn K, Hunter S, Romanosky N, Thompson CA (2011). Rethinking our value: Design and early results from the National Network of Libraries of Medicine (NN/LM), Middle Atlantic Region (MAR), Value Study. Paper presented at the Medical Library Association Annual Meeting, Minneapolis, MN.

Folb B (2010) Information Practices of Disaster Preparedness Professionals in Multidisciplinary Groups Presentation at the American Society for Information Science and Technology (ASIS&T), Pittsburgh, PA.

Folb B (2011) Information Needs and Practices of Disaster Response Professionals: Findings and Implications for Information Support Services. Presentation at the Disaster Information Outreach Symposium held at the National Library of Medicine Disaster Information Research Center, Bethesda, MD

O'Rourke K, Berryman D**,Tannery NH** (2011) From Module Development to User Testing: A Collaborative Project to Create an Online Search Module for MERC. Poster presented at the Annual Meeting of the Northeast Group on Educational Affairs, Washington DC.

Hartman L (2011) Visualizing the Telerehabilitation Literature. Poster presentation at the American Telemedicine Association's 16th Annual Meeting and Exposition, Tampa, FL..

Ratajeski M, **Saleh** A (2011) Grey Lit 102: Advanced Search Strategies for Grey Literature. Presentation at the <u>Academy of Health Webinar</u> sponsored by the National Library of Medicine.

Reed R, Spallek H, Jiang J, et al, (2011) Developing Focused Literature Collections: A Pilot Study from Dental Informatics. Poster presented at the <u>IADR/AADR (International Association for Dental Research & American Association for Dental Research),</u> San Diego, CA.

Reed R, Burda M (2011) The Effects of eBooks on Consumer Health Collection Development. Poster presented at the <u>Special Libraries Association Annual Meeting</u>, Philadelphia, PA.

Folb B, Wessel, CB, **Czechowski L** (2011) Gathering the Evidence for E-Book Collection Development: A Survey of Academic and Clinical Library Users. Paper presented at the <u>Medical Library Association Annual Meeting</u>, Minneapolis, MN.

Hartman L (2011)The Interdisciplinary Village. Paper presented at the <u>Medical Library Association Annual Meeting</u>, Minneapolis, MN.

Hartman L, Ketchum A (2011) The Next Generation of Auto Alerts. Paper presented at the <u>Medical Library Association Annual Meeting</u>, Minneapolis, MN.

Iwema C Chattopadhyay, **A** (2011) Reaching the Masses: Multimedia Biomedical Instruction at the Point of Need. Paper presented at the <u>Medical Library Association Annual Meeting</u>, Minneapolis, MN.

Reed R, Iwema C, Chattopadhyay A (2011) Flying to the Top, One Tweet at a Time: Using Social Media to Rank Online Search Results. Paper presented at the <u>Medical Library Association Annual Meeting</u>, Minneapolis, MN.

Saleh A, **Ratajeski M**, **LaDue J** (2011) Development of a Web-based Terminology Database to Facilitate Collaboration and Improve Efficiency in Methods Used to Conduct Comprehensive Searches. Paper presented at the <u>Medical Library Association Annual Meeting</u>, Minneapolis, MN.

Czechowski L, **Husted J** (2011) Trying to) Rethink the Reference Collection. Poster presented at the <u>Medical Library Association Annual Meeting</u>, Minneapolis, MN.

Leslie Czechowski, panelist in an Open Forum panel discussion on scholarly communication and e-books.

Meetings/Workshops Attended by HSLS Faculty Librarians

American Library Association Annual Meeting-2010
Gretchen Maxeiner, Leslie Czechowski

Association of American Medical Colleges Annual Meeting -2010
Nancy Tannery, Barbara Epstein

American Society for Information Science and Technology (ASIS&T) Annual Meeting- 2010
Barbara Folb

American Telemedicine Association Meeting Annual Meeting -2011
Linda Hartman

Medical Library Association Annual Meeting -2011
Melissa Ratajeski, Linda Hartman, Renae Barger, Leslie Czechowski, Ahlam Saleh, Carrie Iwema, Charles Wessel, Ester Saghafi, Nancy Tannery, Barbara Epstein

Annual Meeting of the Northeast Group on Educational Affairs- 2011
Nancy Tannery

ABCs of E-Books: Strategies for the Medical Library - 2011 Medical Library Association Workshop/Continuing Education Course
Melissa Ratajeski , Linda Hartman, Gretchen Maxeiner , Renae Barger, Liping Song, Patricia Weiss, Rebecca Abromitis, Nancy Tannery, Barbara Epstein

Advanced PsycInfo - 2011 American Psychological Association Workshop/Continuing Education Course
 Michele Klein Fedyshin

Advocacy for Leaders - 2011 MAR-LI Workshop/Continuing Education Course
Renae Barger

Assessment - 2010 CIDDE Workshop/Continuing Education Course
Michele Klein Fedyshin

Beyond the Tech Churn -Gardner Campbell Lecture - 2011 University of Pittsburgh Faculty Development Workshop/Continuing Education Course
Michelle Burda, Fran Yarger

CIDDE Assessment - 2010 Pitt Workshop/Continuing Education Course
Michele Klein Fedyshin

Cloud Computing & Clinical Research: What Are We Handing Over? - 2010 AAMC Workshop/Continuing Education Course
Patricia Weiss

Communication for Health Professionals - 2010 UPMC Shadyside Workshop/Continuing Education Course
Michelle Burda

Connexion Enhancements (webinar) - 2011 OCLC Workshop/Continuing Education Course
Gretchen Maxeiner

Controlling headings (in OCLC Connexion) - 2010 OCLC Workshop/Continuing Education Course
Gretchen Maxeiner , Liping Song

Copyright - 2010 CIDDE Workshop/Continuing Education Course
Leslie Czechowski

Course Development - 2011 CIDDE Workshop/Continuing Education Course
Patricia Weiss

Dublin Core & Linked Data - 2010 NISO Workshop/Continuing Education Course
Liping Song, Patricia Weiss

Dublin Core: The Road From Metadata Formats To Linked Data - 2010 NISO/DCMI
Workshop/Continuing Education Course
Patricia Weiss, Michele Klein Fedyshin

ELNEC-Core (End of Life Nursing Education consortium) - 2011 ELNEC Workshop/Continuing
Education Course
Michele Klein Fedyshin

Faculty Retreat - 2011 School of Dental Medicine Workshop/Continuing Education Course
Rebecca Abromitis

FRBR as a Foundation for RDA - 2010 ALA ALCTS Workshop/Continuing Education Course
Liping Song, Gretchen Maxeiner

Genre/Form Headings webinar - 2011 OCLC Workshop/Continuing Education Course
Gretchen Maxeiner

Grey Lit 101: Shining a White Light on Grey Literature - 2011 Academy of Health
Workshop/Continuing Education Course
Melissa Ratajeski

Grey Lit 102: Advanced Search Strategies for Grey Literature - 2011 Academy of Health
Workshop/Continuing Education Course
Michelle Burda, Melissa Ratajeski

Grey Lit 103: Standing Out in a Sea of Grey Literature - 2011 Academy of Health
Workshop/Continuing Education Course
Melissa Ratajeski

Have Electronic Resources led to a Devaluation of the Library? - 2010 OVID
Workshop/Continuing Education Course
Melissa Ratajeski

Xtreme Reference - 2010 SLA Maryland Workshop/Continuing Education Course
Michelle Burda