



**DREXEL UNIVERSITY
COLLEGE OF MEDICINE**

INSTITUTE FOR WOMEN'S HEALTH AND LEADERSHIP

FY11 Department Annual Report

**Vision of the Chair – Institute for Women's Health and Leadership® (IWHL)
Director and Betty A. Cohen Chair in Women's Health, Lynn Yeakel:**

With one eye on the practical and the other on the possible, the Institute for Women's Health and Leadership looks to Fiscal Year 2012 and beyond with optimistic anticipation.

Our programs will continue to reflect the Institute's twin commitment: (a) advancing the health and leadership status of women, and (b) assuring that what we do is in harmony with the mission and goals of DUCoM and the entire Drexel family.

We particularly embrace the goal of "civic engagement."

All of the Institute's activities reach multiple external constituencies.

- Locally, WOMAN ONE and community "Conversations."
- Nationally and internationally, ELAM—and soon, ELATE-- Vision 2020 and the Legacy Center.
- Professionally, the Sex and Gender Research Forum, the Marion Spencer Fay Award and our scholarship program for underrepresented minority women studying medicine at Drexel University College of Medicine.

A Director of Membership Development recently joined the IWHL team in support of Vision 2020 and WOMAN ONE to build on our successful engagement initiatives and extramural funding successes.

Three criteria guide our growth:

- Are we sustaining the Institute's reputation as first, best or different?
- Are we contributing to the College of Medicine's strategic direction?
- Are we bringing increased public awareness and applause to Drexel?

In 2013, IWHL will mark its 20th year. Planning is already underway for a celebration that will acknowledge our first two decades, and more importantly, seek to define the next two.

Lynn Yeakel, MSM

I. Goals and Strategies

***Institute for Women's Health and Leadership (IWHL) – Lynn Yeakel, Director
Goals for Fiscal Year 2011 were met as follows:***

Number 1

To launch the decade-long Vision 2020 project with a successful American Conversation about Women and Leadership at the National Constitution Center on October 21 and 22, 2010.

- Women leaders from all 50 states and the District of Columbia participated in eight Conversations covering a wide spectrum of leadership challenges and opportunities for women. Out of those Conversations, five national goals for the decade were developed.
- Over 1,400 people attended the October events at the National Constitution Center.
- Delegates signed the Declaration of Equality and were joined by hundreds of citizens in the United States and other countries who have since signed online.
- National Delegates have developed and implemented projects across the country to move America toward gender equality by 2020.
- Presenting Sponsor The Penn Mutual Life Insurance Company renewed its sponsorship of Vision 2020 with \$1 million in funding over three years. Visionary Sponsor Exelon Foundation renewed its sponsorship with \$250,000 to fund the Second Annual Congress in Chicago in 2011.
- Vision 2020 and Drexel University College of Medicine made 326,431,141 impressions through radio, television, print and online publications and received media coverage in 42 out of 50 states. A feature was published in Drexel's Philanthropy Journal that featured the Penn Mutual commitment and CEO Eileen McDonnell.

Number 2

To obtain funding (estimate: \$200,000) for the "Unfinished Business of Women's Equality" exhibition to travel the United States and develop a plan for the itinerary.

- After consulting with several curators, the decision was made to house the exhibition in the IWHL building and begin planning for an online exhibition that will expose a larger audience to the exhibition.
- A film was made about the exhibition and its significance today that is available on the Vision 2020 website (<http://drexel.edu/vision2020/who/>).
- An educator's guide for middle school students was developed based on the exhibition. Vision 2020 has established a partnership with USA TODAY Education titled "Equality in Motion!" to develop a curriculum for middle and high school students based on the Vision 2020 Educators' Guide and focus on Vision 2020's five national goals. Funding is currently being sought for this project.

Number 3

To leverage contacts made through Vision 2020 to support the expansion goals of the

International Center for Executive Leadership in Academics (ICELA) and to work closely with ICELA's Director on strategies and fundraising.

- The Society of Women Engineers and the Association for Women in Science joined Vision 2020 as National Allies and their leaders were connected to ICELA as it developed its program for women in engineering

Number 4

To support the new Center for Women's Health Research in its early development and work closely with the Center's Director on strategic and fundraising goals, including plans for the Fall 2011 Sex and Gender Research Forum.

- The 2011 Marion Spencer Fay Award presentation was planned in conjunction with the 2011 Sex and Gender Research Forum.

Number 5

To clarify the role of the IWHL as:

- (a) convener of women's health and leadership programs within Drexel University College of Medicine and Drexel to ensure continuity of "Excellence" strategic theme;
- (b) catalyst for collaboration and new initiatives;
- (c) connector of women's health and leadership programs to external resources.

- Following the IWHL retreat in December 2010, an internal communications team was established with a point of contact for each center within IWHL to foster relationships among the College of Medicine and Drexel University and with external constituents. The team has developed and implemented a monthly staff newsletter and is working to develop a master calendar of events about women's health and leadership.
- Vision 2020 assumed the role of clearinghouse of information on women's health and leadership with a distribution of a monthly newsletter that reaches thousands across the country, website updates and through social media.
- IWHL's Director hosted quarterly meeting of leaders in women's health and leadership programs to exchange information and ideas.

Number 6

To host the 9th annual Woman One Award ceremony on April 25, 2011, raising funds for new scholars, and begin planning for 10th anniversary Award program.

- Two new scholars joined the Woman One program in 2011: Chinwe Ibeh and Nejat Merdato. Michelle Ballentyne, M.D., and Janielle Hyde, M.D., joined the Woman One Scholars Emeritae when they graduated in May 2011. Sara Manzano-Diaz received the Woman One Award in April and a new scholar was selected as the WMC/MCP Trust Fund Woman One Scholar for 2012.

Number 7

To publish A Will and A Way, IWHL Director's call to action for women and donate a portion of the proceeds to DUCOM for ongoing work of Vision 2020.

- The book was published in fall 2010 and has been promoted across the region and gifted to all Vision 2020 National Delegates.

Center for Women’s Health Research—Michele Follen, Director

In 2010, DUCOM achieved a Strategic Plan milestone by establishing the Center for Women’s Health Research (CHWR), affiliated with the Institute for Women’s Health and Leadership. Both the director and the assistant director of the CWHR are faculty in OB/GYN. The objective of this center is to develop translational research programs in already strong areas of research in women’s health, such as sexual and reproductive health, maternal-infant health, infectious diseases, neurobiology and cognition. The CWHR is located within the OB/GYN department on the 17th floor of the New College Building, adjacent to the Maternal Fetal Medicine Research Unit (MFMU). The CWHR consists 800 sq. ft. of office space and over 1500 sq. ft. of bio-safely level-2 research laboratory space, a histology lab, and an optics lab. Research space in OB/GYN is shared among faculty conducting requiring wet-lab space. Research activities within the CWHR include: optics devices for cervical cancer diagnosis, virology (HIV, HPV and other sexually transmitted infections), mother-to-child transmission of HIV, histopathology and women’s global health, among others. In support of these many research activities, the CWHR provides infrastructure for medical and grant writing, research administration (grant management) and compliance, educational/training program development and support, clinical trial design, statistical analysis, and research database development and management. The CWHR works in close proximity with faculty and staff conducting research in women’s health as well as with DUCOM’s Office of Research. CWHR has also become a research-training site for Masters in Public Health students and OB/GYN residents.

ELAM- Diane Magrane, Director

The International Center for Executive Leadership in Academics (ICELA) has evolved from 15 years of success of the ELAM program and is an important focus of the current DUCOM strategic plan. Dedicated to increasing the numbers of women in leadership roles in academics, the center will adapt the ELAM action-learning model of leadership development to the creation of new programs co-hosted by other professional colleges within Drexel University. This model engages a national partnership of institutional leaders, consultants, and faculty to engage senior women, known as Fellows of the program, in advancing their own leadership skills and visibility while making positive contributions to their academic institution and to the professions. The program will maintain a research portfolio supported by federal funding and foundation support, targeted to understanding women’s leadership development and program impact, and sustained through partnerships with other organizations. Eventually, the center will host programs from a variety of disciplines and will expand to steward the success of graduates from all its programs as successful leaders in institutions across the world. In addition, ICELA staff will assist with the development of internal management and leadership training programs in the host colleges.

Departmental Infrastructure

Staffing for ICELA builds upon a core team of talented and effective individuals established to support ELAM. Capacity for program expansion has expanded as a result of formalizing and automating processes, improved communications, and changes in job responsibilities of current staff. As programs expand, modest expansion of staffing is

required. Two FTE will be needed to accommodate ELATE development—a Director or co-directors and a new coordinator—and anticipate this as a model for expansion of any other new program. Once ELATE is mature, these positions should be supported through registration fees and fundraising.

Goals for Fiscal Year 2011 were met as follows:

Number 1

ICELA: branded and accepted as umbrella organization for the executive programs it supports.

- Staffing changes to expand capacity for expansion of programs and DUCOM
- Work with Drexel leadership to support shared fundraising and communications processes across colleges and departments.

The term ICELA at Drexel™ is in the process of being registered. A logo and a letterhead template were created, and work is now underway for the creation of a website. These efforts have been collaborative with the College of Medicine, the University, and the College of Engineering.

Staff has been reorganized, with new job functions and titles to better staff the expanding programs under ICELA.

Number 2

ELAM Program: Continue to enhance the curriculum and to diversify the class. In addition to diversity of individual backgrounds and organizational characteristics, ELAM will aim to admit 5-10% of the class as Fellows from professional disciplines that present opportunities for expansion, e.g. engineering, international programs

ELAM's 2010-2011 class consisted of one Fellow from an engineering discipline and two international Fellows (Canada and United Kingdom).

This year's class (2011-2012) once again hosts an international Fellow, and a Fellow from the field of engineering. This year's class is also exceptionally racially and ethnically diverse, with over 35% of the class self-identifying as a race or ethnicity other than Caucasian.

The ELAM curriculum has also been enhanced with the introduction of Total Leadership – a program designed to help Fellows improve performance in work, home, community, and self.

Number 3

ELAM Alumnae: Strengthen ELAM alumnae functions by formalizing processes of supporting alumnae through regional meetings, national meetings, and social networking tools. Expand upon current fundraising efforts to increase giving among alumnae and

corporate supporters. Continue to grow the base of health science centers subscribing to Sustaining Memberships.

The first ever ELAM Alumnae Professional Development program is scheduled for December 8-11, 2011 in Nashville, TN, with over 70 registrants as of October 17. A formal Alumnae Advisory Board, with supporting Community Building, Program Planning, and Development committees was created.

Plans were laid for the launch of the Executive Development Council, which will increase giving from corporate supporters. The number of institutions subscribing to Sustaining Memberships held steady last year.

Number 4

ELATE: Develop an executive leadership in academic engineering program for women hosted by the Drexel College of Engineering (tentatively titled ELATE)

- Enroll at least one Drexel Engineering faculty member in the ELAM class
- Invite a cadre of national academic engineering leaders to campus for a summit to discuss and begin design of a leadership program.
- Procure external funding for the initial development phases of the program.

Both the 2010-2011 and the 2011-2012 ELAM class have had members of Drexel's Engineering Faculty enrolled.

The ELATE Advisory Board met at Drexel University in June of 2011 to begin discussions on the creation and curriculum of this leadership program.

A National Science Foundation grant to support ELATE development and Jesse Ball DuPont grant to support program evaluation were well received but not funded. ELAM is responding to two different Foundation invitations to submit grants, one to support Conversations about Leadership (a blend of Meet the Leader and IWHL Conversations) and one to support program evaluation.

Number 5

Collaborate with DUCOM leaders to design and pilot sessions for an internal leadership and management series

This program planning is managed by the Vice Dean and was put on hold pending identification of funding. When it moves forward, ICELA staff is prepared to assist in the creation and management of this mid-level faculty development program.

Legacy Center: Archives and Special Collections--Joanne Murray, Director

Goals for Fiscal Year 2011 were met as follows:

Number 1

Successfully develop, support, administer and participate in the Vision 2020 National Conversation on Women in Leadership, October, 2010: *Changing the Face of Medicine: Celebrating America's Women Physicians* exhibition and programming; "72/10" planning and implementation team; *From the Absence of Many to the Presence of All: The Unfinished Business of Gender Equality* exhibition and programming at the National Constitution Center; Declaration of Equality event; related programming with International Ambassador Yvonne McEwen.

- The Vision 2020 National Conversation was a great success. The Legacy Center's participation included hosting the exhibition *Changing the Face of Medicine: Celebrating America's Women Physicians* at the long-time home of the Woman's Medical College of Pennsylvania. Attendant programming comprised a one-woman show Elizabeth Blackwell: The First American Woman Doctor and a tour/conversation program with middle school students at St. Bridget's Academy. Legacy Center staff were part of the "72/10" planning and implementation team for the Vision 2020 event, including development of the Declaration of Equality and its presentation. Initial planning efforts began with International Ambassador Yvonne McEwen of the University of Edinburgh.

Number 2

Launch new Medical Humanities course: "Treasures of the DUCOM Archives: History of Women in Medicine/Women's Health."

- The first Medical Humanities course was taught in February and March and included women in medicine, women's health and Archives research and writing. The first and second year students learned about the history of their institution, women in medicine in general and women's health, along with work in Archives use and writing for publication.

Number 3

Begin Pew Heritage Philadelphia Program (HHP) planning grant, working with teachers, students and technology and content experts to engage students in grades 6-12 in using the Center's online digital collection.

- The HHP planning grant is nearing completion and will be finalized with implementation and marketing plans. Students and teachers from Constitution High School, Science Leadership Academy and the Franklin Institute's Summer Science Camp participated. They learned about women in medicine and how to analyze primary resources, while also contributing to plans for enhancing the digital collection. Experts from a wide range of related fields advised throughout. Currently, plans are underway to design and develop prototypes

using additional content and continue working with teachers and students from public and private secondary schools.

Number 4

Collaborate with the Pennsylvania Academy of Fine Arts (PAFA) on their upcoming exhibition *Anatomy Academy*, supplying collection items on loan, item data and contextual material.

- *Anatomy Academy* was very successful throughout its nearly three month run at PAFA. The Legacy Center loaned several collection items, managing art packing, moving and legal agreements. Label text was reviewed and revised as well. Center staff participated in event programming, speaking as part of the series of exhibition related programs. A solid relationship between the Legacy Center and PAFA is now in place.

Number 5

Complete image capture of Bradford scrapbook material utilizing overhead camera and data capture system.

- Images of every page of the thirty-six oversized Bradford scrapbooks, approximately 16,800 pages, have been carefully captured in the Legacy Center's system. A collection level record is included.

Number 6

Increase user base in number and age range by developing outreach techniques including the use of social media and programs resulting from the Pew-funded project.

- The planning phase of the interpretation project is nearly complete. The first series of student and teacher surveys have been developed, sent into the field and are partially returned and analyzed. The marketing plan is nearly complete, and will include strategies for reaching these audiences. Additionally, the Center is now using social media such as blogging and Twitter to connect with this audience and others.

Number 7

Further develop use of open source software, Archivists' Toolkit (AT), to streamline collection data input and accessibility online.

- Archivists' Toolkit is fully in place, and is being used regularly to input data. As re-organization of the stacks is completed, AT will be utilized more fully.

Vision 2020–Catherine Ormerod, Project Director

Goals for Fiscal Year 2010 were met as follows:

Number 1

To establish the Campaign for Equality as the new focus for the decade ahead and adequately staff the office.

- In July 2011, Catherine Malkemes was hired as the Director of Membership Development to oversee the Vision 2020 membership campaign, which was launched in March 2011.

Number 2

To build the National Leadership Circle and Delegate Action Project Team to create relationships that will leverage resources on behalf of the Delegates and their Action Projects.

The Leadership Circle was established in early 2011 to provide strategic guidance to the Vision 2020 national office. The committee is chaired by Lynn Yeakel and Rosemarie Greco and is composed of: Kate Allison, CEO, The Karma Agency; Subha Barry, Senior Vice President and Chief Diversity Officer, Freddie Mac; Deborah Brittain, Visionary Delegate, Vice President, Preod Corporation; Susan Butler, Visionary Delegate, Founder and CEO of the Susan Bulkeley Butler Institute for the Development of Women Leaders; Patricia Diaz Dennis, Visionary Delegate, Senior Vice President and Assistant General Counsel, Retired, AT&T; Chair, Board of Directors, Girl Scouts of the USA (2005-08); Ruth Ann Gillis, Visionary Delegate, Executive Vice President and Chief Diversity Officer, President, Exelon Business Services Company; William Glick, Dean and H. Joe Nelson III Professor of Management, Jesse H. Jones Graduate School of Business, Rice University; Martha Harris, President, Fizika Group; Karen Kaplowitz, President, The New Ellis Group; Roberta Liebenberg, Visionary Delegate, Partner, Fine, Kaplan and Black; Barbara Roberts, Visionary Delegate, Former Governor, State of Oregon; Bill Schaninger, Principal, McKinsey & Company; Carmen Delgado Votaw, Visionary Delegate, Former President, National Conference of Puerto Rican Women; Mark Woodland, MD, Associate Dean, Graduate Medical Education, OB/GYN Program Director, Drexel University College of Medicine.

Number 3

To cement relationships with the National Allies.

- Vision 2020 leadership has visited personally with a number of National Allies in 2011. Ion and Catalyst, who first met at Vision 2020's first Congress, are holding a meeting in fall 2011 to discuss strategies to increase women's leadership on boards.
- National Allies are participating in the strategic survey to determine the strategies and focus of the Second Annual Congress.

- National Allies will be attending the Second Annual Congress.

Number 4

To sustain the momentum of Delegates and Allies through webinars and annual meetings.

- The Second Annual Congress will be held October 11-13, 2011, in Chicago Illinois. Delegates and Allies participated in a pre-event survey to address topics they wished to discuss during the Congress.
- The Third Annual Congress will be held in October 2012 in Portland, Oregon, in conjunction with Oregon's centennial celebration of women's suffrage.
- The first international meeting is being planned for spring 2013 in Scotland.
- Delegates and Allies participated in conference calls, received monthly newsletters and connected on Google Sites after the 2010 Congress.

Number 5

To build a funding base through alignment of ideals and corporate/foundation values.

- A membership campaign was developed and announced in March 2011.

Number 6

To build communications platform that will attract significant national and local media.

- Vision 2020 has collaborated with communications and marketing firms to develop strong key messages and implement media strategies to achieve national, regional and local coverage.
- Social media usage has increased by 70%.
- A Media and Marketing Action Team was established with regional leaders to amplify Vision 2020's awareness and messaging throughout the country.

Number 7

Hold a well-attended, well received Vision 2020: An American Conversation about Women and Leadership at the National Constitution Center on October 21-22, 2010 that attracts Delegates, funders, media and the general public.

- More than 90 percent of the National and Visionary Delegates signed the Declaration of equality along with hundreds of citizens in the United States and other countries who signed online.
- National Delegates have developed and implemented projects across the country to move America toward gender equality by 2020.
- Presenting Sponsor The Penn Mutual Life Insurance Company renewed its sponsorship of Vision 2020 with \$1 million in funding over three years. Visionary Sponsor Exelon Foundation renewed its sponsorship with \$250,000.
- Vision 2020 and Drexel University College of Medicine made 326,431,141 impressions through radio, television, print and online publications and received media coverage in 42 out of 50 states and a feature was published in Drexel's Philanthropy Journal about Penn Mutual CEO Eileen McDonnell.

II. Goals for Year One- Fiscal Year 2012

IWHL Director

Number 1

To celebrate the 10th anniversary of the WOMAN ONE program with record-breaking attendance and fund-raising results at the Award presentation ceremony on April 23, 2012.

Number 2

To secure funding for the third annual Vision 2020 congress in Portland, Oregon in November 2012 and for the USA TODAY Education partnership.

Number 3

To solidify plans for the Vision 2020 international conference in Edinburgh, Scotland in April 2013.

Number 4

To obtain institutional support from Drexel University and Drexel University College of Medicine for IWHL 20th Anniversary events and activities in 2013.

Number 5

To strengthen connections and communications among women's health and leadership programs – the Center for Women's Health; the Center for Women's Health Research, ICELA and the Legacy Center.

Number 6

To present at least two *Conversations About Women's Health* to outside organizations.

Number 7

To establish the IWHL as a model for civic engagement locally, nationally and internationally.

Number 8

To work with McKinsey to address infrastructure and staffing needs for Vision 2020

Center for Women's Health Research Director

Number 1

Participate in an analysis of strengths, weaknesses, opportunities and threats (SWOT) with Kenny Simansky and Deb Crawford for DUCOM and DU keeping IWHL in mind.

- DUCOM is currently working on its 5-year strategic plan. Drs. Follen, in her capacity of Assistant Vice Dean for Translational Research, and Urdaneta-Hartmann plan to dovetail the CWHR's 5-year strategic plan with the overall DUCOM strategic plan. They have planned a CWHR faculty/staff retreat in November or December 2011 to develop and draft our strategic plan. Dr. Follen has met with individually with each member of the RAC for better understanding

of their perspectives of the research needs in women’s health and sex and gender research.

- Both Dr. Follen and Dr. Hartmann were involved with the Vice Dean of Research, Kenny Simansky, PhD, in conducting a strengths, weaknesses, opportunities, and threats (SWOT) analysis of research activities at DUCOM and report the findings to Dean Homan. This would have also been used for benchmarking DUCOM against other Drexel Colleges and Schools, through a similar analysis led by the Vice Provost for Research (Debbie Crawford, PhD). Dr. Urdaneta-Hartmann was to lead this endeavor for DUCOM. After a few early meetings and discussions, this was not further pursued as a formal task, since a sort of separate SWOT analysis was being conducted for DUCOM plan. We may, however, pursue in the future conducting our own SWOT analysis focused on research activities related to women’s health and sex and gender differences.

Number 2

SWOT with ob/gyn with IWHL in mind.

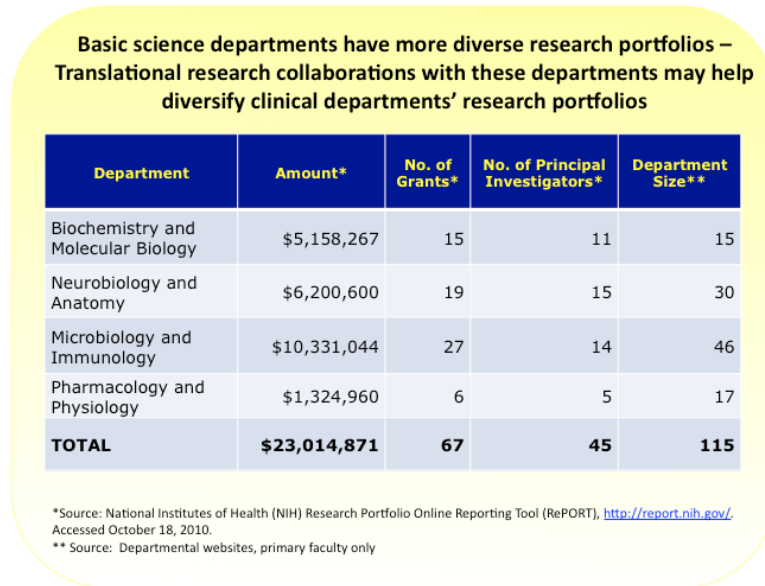
**OB/GYN is No. 1 DUCOM Clinical Department with NIH Funding –
Clinical research needs to diversification of its NIH portfolio**

Department	Amount*	No. of Grants*	No. of Principal Investigators*	Department Size**
Medicine	\$2,966,063	4	3	80
Neurology	\$159,375	1	1	15
OB/GYN	\$3,192,434	2	2	23
Pathology	\$238,006	1	1	21
Pediatrics	\$515,320	1	1	45
Psychiatry	\$192,500	1	1	13
Surgery	\$28,032	1	1	17
TOTAL	\$7,291,730	11	10	211

*Source: National Institutes of Health (NIH) Research Portfolio Online Reporting Tool (RePORT), <http://report.nih.gov/>. Accessed October 18, 2010.
** Source: Departmental websites, primary faculty only

- In October 2010 the CWHR conducted an assessment of ongoing research in women’s health within the department of ob/gyn. The results were combined into a bound book detailing research activities per faculty member in this department. This report was distributed to the chair of ob/gyn and all faculty in that department, to Lynn Yeakel and the Vice Dean for Research.
- The National Institutes of Health (NIH), the March of Dimes as well as other major foundations and industries fund some of the research in this department. In fact, OB/GYN is the No. 1 DUCOM clinical department with NIH research

funding during FY10-11, at levels competitive with DUCOM basic science departments.



Number 3

CWHR Core Research Activities (in lieu of: Develop Sandra Urdaneta-Hartmann as a principal investigator)

Michele Follen, M.D., Ph.D.

Appointment: Professor of Gynecologic Oncology, Associate Vice Dean for Research, and Director of the Center for Women’s Health Research

Research Summary: She was a faculty member at the University of Texas M. D. Anderson Cancer Center in Gynecologic Oncology for 23 years where she received a Distinguished Service Award upon retirement. Her research has focused on cervical cancer and she has garnered over \$25M dollars in peer-reviewed funding over 20 years in the areas of cervical precancer chemoprevention, optical and molecular technologies for cervical neoplasia, and the immuno-biology of Human Papilloma Virus. Peer reviewed grant reviews affirm that she has contributed extensively to the understanding and prevention of cervical cancer through her research and clinical work. In addition, she is the Co-Director of the Operation Stop Cervical Cancer in Nigeria with Dr. Isaac F. Adewole, an initiative funded by ExxonMobil to provide training and implementation of cervical cancer screening and treatment to Nigerian women and to assess attitudes and barriers to access to care in this population.

While at the University of Texas M. D. Anderson Cancer Center, she lead three institution-changing initiatives: she was responsible for establishing the Department of Cancer Prevention now a large Division; she established outreach and clinical practice at the Lyndon Baines Johnson County Hospital and at the University of Texas Health Science Center so that impoverished patients had access to the M. D. Anderson standard of oncology care; and she created the Center for Biomedical Engineering. This inter-institutional Center was funded by a prestigious Whitaker Grant and provided the seed money and impetus to create an undergraduate department in Biomedical Engineering and a new building for the campus. The University of Texas at Austin previously had only a graduate degree program. The Center included the University of Texas at Austin, the University of Texas Health Science Center in Houston,

and the University of Texas M. D. Anderson Cancer Center. The grant was awarded to Ken Diller, ScD (chair at Austin), Rebecca Richards-Kortum, PhD (faculty member at Austin) and Dr. Follen (faculty at M. D. Anderson Cancer Center with Joint Appointments at both Austin and the Health Science Center in Houston). The Center held yearly conferences joining engineers, basic scientists, and physicians; gave out seed grants; and provided support for NIH applications, patenting, and commercialization.

Dr. Follen's other area of interest is in curriculum development and teaching. With her former collaborator, Dr. Rebecca Richards-Kortum, she designed the first Biomedical Clinical and Research Internship, a ten week camp for biomedical engineering students, in which they attended morning lectures; learned cadaver-based anatomy; attended clinical rotations in Internal Medicine, Pediatrics, Obstetrics and Gynecology, Surgery, and the Emergency Medicine; and spent four weeks in a translational research laboratory. While initially the program was open to students at the University of Texas at Austin, it was expanded to include Rice University and students from other competitive schools of bioengineering nationally. Dr. Richards-Kortum became a Howard Hughes Investigator for Teaching Excellence and together they subsequently received two other prestigious Hughes Awards. The first was to create an inter-disciplinary fellowship for biomedical engineering graduate students in "Optical Technologies for Detection of Neoplasia". Together they developed course work in optical engineering, oncology, and rotations through Radiation Oncology, Pathology, Medical Oncology, Surgical Oncology, and Behavioral Medicine. The second Hughes award they received was for the development of "Beyond Traditional Borders Undergraduate Science Education Program". This program was developed in collaboration with Rice University and, has drawn international acclaim. This Howard Hughes Medical Institute- funded, four year, biomedical training program offers undergraduate students from Rice real-world design challenges to solve healthcare problems in the developing world. The program is designed to help students reach beyond traditional geographic and disciplinary boundaries in addressing healthcare challenges. Together they developed and taught a course called "Biotechnology and World Health". Dr. Richards-Kortum subsequently published an original text this year through Oxford, based on the course. It is called "Biotechnology and Global Health" and was written with extensive collaboration by Dr. Follen.

Dr. Follen previously served as a site visitor and member of "The Cancer Center Special Grant Committee A" for the National Cancer Institute; as a member of the "Cervical Cancer Disease sites subgroup" for both the National Institutes of Health and for the Center for Disease Control; as member of the "Task Force for Cancer Prevention" for the American Association for Cancer Research; and as a member of the Endowment and Granting Committee for the American Gynecological and Obstetrical Society.

Active funding:

CA-PO1 82710-09-PA2 (Follen)

10/01/99-7/31/2014

Sponsor: NIH/NCI

Amount: \$12,500,000 (2010-2014)

Project Title: Optical Technologies Cervical Neoplasia

Role on Project: Project Director/Principal Investigator

Cervical cancer is the second most common cancer in women worldwide and the leading cause of cancer mortality in women in developing countries. Both the screening and detection of cervical cancer could be vastly improved by technologies, which improve, automate, and decrease the cost of screening and detection. The goal of this program project is to assess the emerging technologies of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology for the diagnosis of cervical neoplasia. The program project seeks to address: (1) **Biologic Plausibility**, by examining the fluorescence/reflectance and quantitative images of cell lines, tissue cultures, and live tissue sections; (2) **Technical Feasibility**, by conducting large

screening and diagnostic trials of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology; (3) **Intermediate Effects**, by using the fluorescence and reflectance spectrometer in a randomized clinical trial; (4) **Patient Outcomes**, by assessing patient and provider acceptability of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology; and (5) **Societal Outcomes**, by assessing the performance and cost-effectiveness of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology in the screening and diagnostic setting. The four cores will support the projects by focusing on (A) Administration, (B) Biostatistics and Informatics, (C) Instrumentation, and (D) Pathology.

Grants submitted: Submitted 8 proposals as co-investigator or mentor with Dr Urdaneta-Hartmann for funding of microbicide research between July 1, 2010 and May 2011 through ob/gyn:

- 1 Coulter Foundation proposal (\$100K/1 year) – made it to the finalists round, considered very meritorious but was not selected for funding
- 2 internal proposals for 2010 WW Smith Foundation (\$100K/1 year each) – neither selected for full submission
- 1 CURE grant proposal – not funded, conducted the research anyways which included approval of two IRB protocols and produced two MPH theses. Funding provided by Center for Women’s Health Research and Mary DeWitt Pettit Fellowship (with approval from the Alumnae/I Board)
- 1 NIH Director’s New Innovator Award Program (DP2, \$1.5M/5 years) - not funded
- 1 competitive renewal proposal for Gates Foundation Grand Challenges Exploration grant-Round 2 (\$1M/1 year) – not funded
- 1 Robert Wood Johnson Foundation/Harold Amos Medical Faculty Development Program (\$420K/4 years for stipend and research) – not funded (Role: Dr. Hartmann’s mentor)
- 1 internal proposal for 2011 WW Smith Foundation (\$100K/1 year – not selected, but considered very meritorious

Sandra Urdaneta-Hartmann, M.D., Ph.D., M.B.A.

Dr. Hartmann was appointed as Research Assistant Professor in Obstetrics and Gynecology in May 2010 and has a joint appointment in such capacity in Microbiology and Immunology (since April 2009). Dr. Hartmann devotes 70% of her professional effort to research and 30% to administrative duties as Assistant Director of the Center for Women’s Health Research (CWHR). Dr. Hartmann’s research focuses on prevention of HIV transmission through breastfeeding, supported in FY09-10 by a Grand Challenges Exploration Grant from the Bill and Melinda Gates Foundation, a Catalyst Grant from Family Health International, and by the 2010 Mary DeWitt Pettit Fellowship sponsored by the Trust Fund of the Alumane/i Association of WMC/MCP. Dr. Hartmann’s research has expanded to include a behavioral research component regarding knowledge and attitudes towards HIV, breastfeeding and reproductive behavior among HIV-infected and uninfected individuals. She is also a co-investigator in an NIH-funded Program Project grant to develop low cost diagnostic devices for diagnosis of cervical cancer. Current with Office of Research Compliance (IRB, Biosafety), continue to use Dr. Fred Kreb’s research lab in Microbiology and Immunology, since research space in OB/GYN is still not renovated.

During FY10-11 Dr. Hartmann developed novel translational research around her own microbicide research by initiating a novel socio-behavioral research project in collaboration with OB/GYN, Medicine/Infectious Diseases, and School of Public Health. This became the Master’s Thesis project of two Drexel Masters in Public Health students (see below). These were also the first two students to conduct research at the CWHR. She also initiated a collaboration with

Drexel's School of Biomedical Engineering (Margaret Wheatley, PhD) that led to nearly submission of 2 proposals to the Coulter Foundation and to the WW Smith Foundation that received very high marks, but unfortunately did not get funded (see below).

Dr. Hartmann's Active funding:

CA-PO1 82710-09-PA2 (Follen)

10/01/99-7/31/2014

Sponsor: NIH/NCI

Amount: \$12,500,000 (2010-2014)

Project Title: Optical Technologies Cervical Neoplasia

Role on Project: Co-investigator

Cervical cancer is the second most common cancer in women worldwide and the leading cause of cancer mortality in women in developing countries. Both the screening and detection of cervical cancer could be vastly improved by technologies, which improve, automate, and decrease the cost of screening and detection. The goal of this program project is to assess the emerging technologies of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology for the diagnosis of cervical neoplasia. The program project seeks to address: (1) **Biologic Plausibility**, by examining the fluorescence/reflectance and quantitative images of cell lines, tissue cultures, and live tissue sections; (2) **Technical Feasibility**, by conducting large screening and diagnostic trials of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology; (3) **Intermediate Effects**, by using the fluorescence and reflectance spectrometer in a randomized clinical trial; (4) **Patient Outcomes**, by assessing patient and provider acceptability of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology; and (5) **Societal Outcomes**, by assessing the performance and cost-effectiveness of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology in the screening and diagnostic setting. The four cores will support the projects by focusing on (A) Administration, (B) Biostatistics and Informatics, (C) Instrumentation, and (D) Pathology.

Grant No. 53191 (Sokal)

9/1/2008 – 10/30/2010

Sponsor: Bill & Melinda Gates Foundation

Amount: \$30,000 (direct costs for sub only in Microbiology and Immunology, indirect costs not allowed), Phase 1-Grand Challenges Exploration Grant (Round 2)

Project Title: "A new way to prevent HIV infection during breastfeeding"

Role on Project: Co-Investigator

This was the first external source of funding for the development of the JustMilk nipple shield. This project's goal was to develop a nipple shield prototype, obtain acceptability data and in vitro results on prototype efficacy against HIV, assess maternal impressions/opinions about the nipple shield device concept for HIV prevention, and determine in vitro the prototype's efficacy in inactivating HIV in vitro. Sodium dodecyl sulfate (SDS) was the microbicide of choice for this proposal (Urdaneta, 2005 and 2006). The PI on this grant is David Sokal, M.D. from Family Health International. Dr. Hartmann's subproject is for in vitro testing of the anti-HIV activity of SDS-impregnated

JustMilk disc inserts. Only a single disc material and a single SDS-dose will be tested.

Catalyst Grant (Sokal)

9/1/2010 – 10/30/2010

Sponsor: Family Health International (FHI)

Amount: \$30,000 (direct costs only for subcontract through Microbiology and Immunology, indirect costs not allowed)

Title: "A new way to prevent HIV infection during breastfeeding"

Role on Project: Co-Investigator

This is additional funding to supplement costs associated with Hartmann's subcontract within Grant No. 53191 (Sokal) from the Bill & Melinda Gates Foundation.

Mary DeWitt Pettit Fellowship (Hartmann)

7/1/2010 – 6/30/2012

Sponsor: WMC/MCP Alumnae/i Trust Fund

Amount: \$10,000 (direct costs only in OB/GYN, no indirect costs allowed)

Project Title: "Innovative methods to prevent mother-to-child transmission of HIV-1 through breastfeeding with microbicides"

Role on Project: Principal Investigator

This competitive award is offered annually in support of academic development of a young female faculty at Drexel University College of Medicine, and could be applied for research, educational or administrative programs she would propose to the Trust Fund. Dr. Hartmann's proposal to the Trust sought to obtain additional funds to support further pre-clinical research on the JustMilk nipple shield. To this end, funds have been used to purchase necessary equipment to perform preliminary biochemical analysis of milk pumped through JustMilk disc inserts made of a single type of material. Some of this preliminary data (using whole bovine milk) was presented in this proposal (i.e., lipid and protein analysis). This award is also funding Dr. Hartmann's behavioral research assessing knowledge and attitudes towards HIV, breastfeeding and reproductive health decisions.

Grants submitted by Dr. Hartmann: Submitted 8 proposals for funding of microbicide research between July 1, 2010 and May 2011 through ob/gyn:

- 1 Coulter Foundation proposal (\$100K/1 year) – made it to the finalists round, considered very meritorious but was not selected for funding
- 2 internal proposals for 2010 WW Smith Foundation (\$100K/1 year each) – neither selected for full submission
- 1 CURE grant proposal – not funded, conducted the research anyways which included approval of two IRB protocols and produced two MPH theses. Funding provided by Center for Women's Health Research and Mary DeWitt Pettit Fellowship (with approval from the Alumnae/I Board)
- 1 NIH Director's New Innovator Award Program (DP2, \$1.5M/5 years) - not funded
- 1 competitive renewal proposal for Gates Foundation Grand Challenges Exploration grant-Round 2 (\$1M/1 year) – not funded
- 1 Robert Wood Johnson Foundation/Harold Amos Medical Faculty Development Program (\$420K/4 years for stipend and research) – not funded
- 1 internal proposal for 2011 WW Smith Foundation (\$100K/1 year – not selected, but considered very meritorious

Karen Berkowitz, M.D.

Dr. Berkowitz was recently added as a co-investigator in Dr. Follen's PO1. In addition to being a practicing gynecologist specialized in reproductive health and assisted fertility, she conducts basic science research on genetic basis of male and female infertility. Dr. Berkowitz mentors two PhD students in her lab in the Department of Biochemistry, as well as an OB/GYN resident conducting research in her lab.

Dr. Berkowitz's lab is interested in understanding the molecular mechanisms that govern mammalian gametogenesis and we use the mouse as our model experimental system. Her studies focus on meiosis, meiotic recombination, and chromosome segregation,

processes that crucial to germ cell development and genome integrity. CTF18 encodes an evolutionarily conserved protein that is crucial for germline development in the fruitfly, and essential for the faithful transmission of chromosomes in yeast. She has generated a mouse model that lacks Chtf18, the orthologue of the *Drosophila melanogaster* gene, cutlet, and demonstrated that gametogenesis and fertility are severely impaired in both Chtf18^{-/-} male and female mice. Her lab also showed that loss of Chtf18 results in premature separation of homologous chromosomes during meiosis. Consistent with these data is that while Chtf18^{-/-} mice are to a large extent viable, loss of Chtf18 results in significant embryonic lethality. Defects in these processes are known to contribute greatly to causes of aneuploidy in offspring, and aneuploidy is one of the most frequent types of genetic defects that occur during reproduction. The studies are designed to determine the roles CTF18/Chtf18 play in mammalian germ cell development and meiosis. Her lab is examining the molecular mechanisms that control Chtf18 function in vivo, as well as the roles Chtf18 plays in genome integrity of germ cells and somatic cells. Better understanding of the roles of Chtf18 in mammals will broaden our knowledge of the underlying molecular aspects of gametogenesis and chromosomal segregation in mammals, and will provide insight into human infertility and reproductive disorders.

Dr. Berkowitz's active funding:

CA-PO1 82710-09-PA2 (Follen)

10/01/99-7/31/2014

Sponsor: NIH/NCI

Amount: \$12,500,000 (2010-2014)

Project Title: Optical Technologies Cervical Neoplasia

Role on Project: Co-investigator

Cervical cancer is the second most common cancer in women worldwide and the leading cause of cancer mortality in women in developing countries. Both the screening and detection of cervical cancer could be vastly improved by technologies, which improve, automate, and decrease the cost of screening and detection. The goal of this program project is to assess the emerging technologies of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology for the diagnosis of cervical neoplasia. The program project seeks to address: (1) **Biologic Plausibility**, by examining the fluorescence/reflectance and quantitative images of cell lines, tissue cultures, and live tissue sections; (2) **Technical Feasibility**, by conducting large screening and diagnostic trials of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology; (3) **Intermediate Effects**, by using the fluorescence and reflectance spectrometer in a randomized clinical trial; (4) **Patient Outcomes**, by assessing patient and provider acceptability of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology; and (5) **Societal Outcomes**, by assessing the performance and cost-effectiveness of fluorescence and reflectance spectroscopy and quantitative cytology and histopathology in the screening and diagnostic setting. The four cores will support the projects by focusing on (A) Administration, (B) Biostatistics and Informatics, (C) Instrumentation, and (D) Pathology.

NSF 0853733 (Marcolongo)

7/1/2009 – 6/30/2012

- Sponsor: National Science Foundation
- Amount: \$306,000 (direct costs)
- Project Title: "Modeling L-selection mediated attachment strength during embryo implantation,"
- Role on Project: Co-investigator

Mary Dewitt Pettit Fellowship (Berkowitz) 6/1/2011-6/30/2013

- Sponsor: WMC/MCP Alumnae/i Trust Fund
- Amount: \$10,000 (direct costs)
- Project Title: “CTF18 Function in Mammalian Chromosome Segregation and Development”
- Role on Project: Principal Investigator

DUCOM Department of OB/GYN Research Grant (Berkowitz) 7/1/2010-6/30/2012

- Sponsor: OB/GYN department
- Amount: \$10,000 (direct costs)
- Project Title: “The Roles of *Chf18* in Mammalian Meiosis”
- Role on Project: Principal Investigator

Tobacco Settlement Formula Funds (Berkowitz) 1/1/2009 – 12/31/2010

- Sponsor: Pennsylvania Department of Health
- Amount:
- Project Title: “Role of CTF18 in Female Germ Cell Development and Fertility”
- Role: Principal Investigator

Number 4

Prepare a publication on Vision 2020

- The CWHR staff drafted two separate manuscripts about Vision 2020 for inclusion in the forthcoming issue of *Gender Medicine*. These were presented to IWHL for review prior to submission. However, the manuscripts were returned as rejected without detailed comments for revisions, so they were not submitted for publication.

Number 5

Help get Conversations submitted as a research protocol

- Dr. Follen, Dr. Hartmann and Erica Price from the CWHR held two meetings and multiple email exchanges with Dr. Julie Yeh and Lynn Yeakel to determine the viability of conducting research of this ongoing community outreach program. We proposed several possible research options, all of which would require IRB training and approval (e.g., pre/post test to determine knowledge gain, do multiple conversations on the same site and assess behavioral change over time, assess acceptability of the methodology among attendees through an exit survey, develop this as a CBMP project for a Masters in Public Health Student with Dr. Yeh as the preceptor). Also, we proposed to have Lynn Yeakel author a second book focused on the history of “Conversations” and how it led to the successful “Vision 2020” event, to provide a scholarly publication as well as serve as a revenue source for V2020. Unfortunately, these ideas were not supported due to lack of available personnel at that time that could lead this effort.

Number 6

Publish a journal from this year's Sex and Gender conference

- Efforts to publish a special edition *DrexelMed Journal* were not successful in achieving an indexed publication (The DMJ is not indexed). Therefore, the 2010 SGRF proceedings have been submitted for publication in a special edition of the peer-reviewed indexed journal *Gender Medicine*. The issue is forthcoming in November or December 2011.

Number 7

Get more participation in next year's Sex and Gender or TREW conference

- We held our first meeting with the IWHL Research Advisory Committee, which approved of the agenda for the Sex and Gender Research Forum (SGRF), which is focused on Gender Differences in Neurobiology and Cognition. It will be an all day event (9-4 pm) and funded by Dr. Follen's PO1 grant and strategic funds. We were granted CME approval for the 2011 SGRF (3 credits) to be held at NCB on October 24, 2011. Guest speakers for this year are: Dr. Rebecca Jordan-Young (Barnard College, NY), Dr. Lise Eliot (University of Chicago), Dr. Sylvie Goldman (Albert Einstein College, NY) and Dr. Donald Pfaff (Rockefeller University). We have also planned satellite meetings between Dr Pfaff and the Drexel Human Cognition Enhancement Group (Drs. Waterhouse, Murthy et al.), Dr. Craig Newschaffer's autism research group and the Conquer Collaborative (Dr. Onaral et al.). We maintained online pre-registration for this CME-accredited event. Over 200 people pre-registered and 137 people attended.

ELAM Director

Number 1

- ICELA: branded and accepted as umbrella organization for the executive programs it supports.
 - Established web presence with links to individual programs and relevant internal and external resources
 - Staffing changes to expand capacity for expansion of programs and DUCOM (see Departmental Infrastructure below)
 - Work with Drexel and DUCOM leadership to increase fundraising and communications processes across colleges and departments.

Number 2

ELAM: Continue to enhance the curriculum and to diversify the class. In addition to diversity of individual backgrounds and organizational characteristics, ELAM will aim to admit 5-10% of the class as Fellows from professional disciplines that present opportunities for expansion, e.g. engineering, international programs

Number 3

ELAM Alumnae: Strengthen ELAM alumnae functions by formalizing processes of supporting alumnae through a variety of professional development programs, receptions,

and informal gatherings across the U.S. and Canada, as well as piloting distance learning in strategic career planning. Enhance use of social networking tools to connect alumnae to each other and to resources. Expand upon current fundraising efforts to increase giving among alumnae and corporate supporters. Continue to grow the base of health science centers subscribing to Sustaining Memberships.

Number 4

ELATE at Drexel™: Open the inaugural program for academic engineering and other high tech fields.

- Recruit a competitive pool of applicants and select 24 for the first ELATE class.
- Work with a national advisory board to guide curriculum development, marketing and program evaluation.
- Procure external funding for the initial development phases of the program.
- Identify pool of nationally respected, talented speakers, consultants and advisors to support the curriculum for the fellowship.

Number 5

Research and Program Evaluation: Review and enhance the database and pre-post fellowship surveys for ELAM and ELATE; continue our work with NIH Advancing Women grant, taking the lead on efforts to describe a conceptual model for academic career development as it relates to formal program participation and to focus groups exploring the future of research endeavors and preparation of leaders for the field.

Number 6

Advise and participate in DUCOM internal leadership and management training activities as requested.

Legacy Center Director

Number 1

Complete Pew Heritage Philadelphia Program (HHP) planning grant, working with teachers, students and technology and content experts to finalize the implementation and marketing plans for the project.

Number 2

Identify funding for Phase I implementation of the digital collection online interpretation project and begin work developing the Digital History Toolkit prototype and user testing.

Number 3

Disseminate information about the interpretation project to both archives and education professionals.

Number 4

Support the ongoing work of Vision 2020, particularly this year's annual meeting in Chicago and planning for the 2013 international conference in Edinburgh.

Number 5

Develop plans in concert with a select committee to celebrate the 20th anniversary of the Institute for Women's Health and Leadership, to include history projects and events that will create awareness of the IWHL's history and future goals and encourage future support.

Number 6

Establish plans in collaboration with programs across the University to develop a streamlined, directed and cohesive program for digital humanities and digital research in all subject areas.

Number 7

Organize a digital humanities conference for the Philadelphia area (THATCamp), building on collaborative relationships.

Number 8

Complete stacks integration for more efficient access to the collection, and with planning for ongoing additions.

Vision 2020 Director

Over the next fiscal year, Vision 2020 has the following goals:

Number 1

Increase awareness of Vision 2020 through growth of national membership campaign and through publication in major media outlets by enrolling 3,000 members.

Number 2

Adding 10 new corporate or foundation donors and raising \$500,000

Number 3

Develop and publish a benchmarking report around the national goals and National Delegate State Initiatives.

Number 4

Expand program and communication staff to support new sponsors and opportunities.

Number 5

Establish a speakers bureau and fill 25 speaking requests.

Number 6

Help the National Delegates achieve their state initiative goals and to provide technical and financial support.

Number 7

To hold the Third Annual Congress in Portland, Oregon in October 2012.

Number 8

Participate in an international women's conference in Scotland in April 2013.

Number 9

Continue to grow the list of National Allies and build relationships and collaborations across the country.

III. Goals for Year 5

IWHL Director:

Over the next five years, the Institute for Women's Health and Leadership has set the following goals.

Number 1

Solidify the reputation of Drexel University College of Medicine as the number one local and national leader in Excellence in Women's Health and Leadership – providing the best comprehensive clinical care for women through the Multidisciplinary Center for Women's Health, breaking new ground in Sex and Gender Medicine research, extending Executive Leadership programs based on the successful ELAM model to other academic disciplines, being widely recognized as international repository for the histories of Women in Medicine and Women's Health.

Number 2

Build the Archives' outreach efforts, sharing the history documented in the collections with broad audiences, creating an understanding of why the history of medicine and women's history matters.

Number 3

Put Drexel University and the College of Medicine on the national map as founders of *Vision 2020: An American Conversation about Women and Leadership* at the National Constitution Center and the decade-long campaign for gender equality leading to the centennial celebration of women's suffrage in 2020; secure funding to complete the 2010-2020 decade-long project and to enable the original exhibition to travel; begin international expansion of gender equality dialogue.

Number 4

Increase the financial self-sufficiency of the Institute and its Centers and programs by securing endowments as opportunities arise.

Center for Women's Health Research Director

Number 1

Hire the full staff compliment for the CWHR and for research work specified in Dr. Follen's PO1 program project grant (financially supported by Dr. Follen's PO1 grant funds and/or the strategic funds).

Number 2

Have CWHR retreat to develop 5-year strategic plan.

Number 3

Have 17th floor (office and lab space) finally renovated.

Number 4

Fund and deliver the 2011 SGRF

Number 5

Plan subsequent publication of 2011 SGRF proceedings in *Gender Medicine*

Number 6

Organize a research group on gender medicine

Number 7

Advance Follen's, Hartmann's and Berkowitz's research programs, including development of novel research programs and grant submissions

ELAM Director

Number 1

The International Center for Executive Leadership in Academics (ICELA) is established and well branded. The Center is staffed to support all its programs and their alumnae communities through effective and efficient collaborations across DUCOM and Drexel. *See above for current progress on this goal.*

Number 2

A continually successful ELAM program, self-supporting through registration fees, service fees, and fundraising.

- ELAM continues to be self-supporting, maintain an excellent application pool and ideal class size. The program fee was slightly increased to account for increases in the cost of delivering the program. An additional funding stream was introduced through the creation of the Executive Development Council for corporations and businesses.

Number 3

At least one class of engineering fellows graduated and a process in place to expand enrollment and to connect to alumnae through postgraduate programs, networking events and fundraising.

- Recruitment for the inaugural ELATE class is in full swing, with the application process opening in November of 2011. The first class is set to begin in the fall of 2012 and graduate in the spring of 2013.

Number 4

Design underway for a third program, either an international ELAM program or a new program hosted by one of Drexel's professional schools.

- This goal is being deferred as we develop process and staff capacity to support all other initiatives. The processes of quality improvement, curriculum design, and master planning developed for ELAM and ELATE will serve us well for opening any new program.

Number 5

Enrollment of international Fellows, either as independent program or as registrants within Drexel based programs.

- The 2010-2011 ELAM class had two international Fellows enrolled. Discussions continue internally and with international alumnae of the program on the possibilities of expanding ELAM into a more international realm.

Number 6

ELAM alumnae are sustaining its efforts as supporters, as faculty, and as advisors.

- ELAM alumnae continue to be involved in ELAM by contributing monetarily, serving as faculty and facilitators, and by serving as advisors of ELAM Learning Communities. Also, see the third goal above for information on how our cultivation of alumnae has expanded.

Archives Director

The long-term goals established beginning with FY2011, numbers 1-6, are all underway, with much already accomplished, but more that is yet to be done. An additional long-term goal (number 7) is added here.

Number 1

Increase user base to include lifelong learners internationally by developing strategic outreach plans, higher visibility and accessibility of collections.

Number 2

Engage in local, national and international Vision 2020 programs, supporting and participating in action agenda activities, utilizing the past as inspiration and historic reference, with the goal of moving gender equality forward.

Number 3

Implement the PPHP plan resulting from the initial planning grant; evaluate its success and develop new methodologies to engage younger users.

Number 4

Expand technology and outreach capability with new staff resources and funding.

Number 5

Collaborate with institutions nationally and internationally (e.g. an exhibition with Edinburgh University) to promote the collections and the history of women in medicine and homeopathy.

Number 6

Develop presence and leadership within the Archives profession locally and nationally, through field association work and collaborations with colleagues from the Archives

Number 7

Work with individuals and programs across the University to establish a focused methodology for unified management, support and dissemination of digital research and projects.

Vision 2020 Director

Over the next five years, Vision 2020 has the following goals.

Number 1

The Vision 2020 Membership campaign launched in 2011 continues to grow, providing a steady funding stream for the organization.

Number 2

Maintain and grow our relationships with our National and Visionary Delegates through support of their Action Projects and annual meetings.

Number 3

Maintain and grow the list of Vision 2020 National Allies and cement our role as an organization that spurs collaboration and inspires action toward the common goal of increasing women in leadership.

Number 4

Renew Delegate agreement and recruit new Delegates.

Number 5

Sponsor major research study on women and leadership that will track the effectiveness of Vision 2020 State Initiatives.

Number 6

The Vision 2020 Emblem of Equality is established and is valued in the nonprofit, for-profit and academic communities.

Number 7

Hold an International Conversation on Women and Leadership at the University of Edinburgh.

Number 8

Create a traveling Exhibition in conjunction with the International Vision 2020 Conference that travels to national and international museums

IV. Profit and Loss Narrative

This narrative is based on a financial report developed by the financial analysts of Drexel University College of Medicine. The Institute’s approved budget for fiscal year 2011 included \$2,054,706 of anticipated revenue and an allowance of \$2,455,851 for operating expenses. The Institute’s actual profit & loss statement for fiscal year 2011 reflected revenue of \$2,202,361 and operating expenses of \$4,103,431. **It is important to note that the FY09 and FY10 Archives Building Campaign Fund transfer of \$1,451,554 was included as an expense in this year’s report.** Overall, the pattern for the entire IWHL in the profit and loss statement by cost center is much the same as we have seen in the past.

The Institute for Women’s Health and Leadership remains committed to maintaining a competitive financial performance. Although the Institute does receive institutional support from the College of Medicine to sustain its infrastructure and expand its programs, the successful acquisition of external funding remains a priority.

June 30, 2011	Actual Budget	Approved Budget	Variance
Faculty Salaries	303,663	298,822	
Non Faculty Salaries	855,096	867,119	12,023
Overtime	1,457	0	(1,457)
Student	2,905	0	(2,905)
Fringe Benefits	199,655	200,700	1,045
Total Personnel Expenses	1,371,014	1,366,641	(4,373)
Patient Care	0	0	0
Purchased Services	526,559	0	(526,559)
General Expenses	2,040,858	909,210	(1,131,648)
Student Aid	165,000	180,000	15,000

Insurance	0	0	0
Rent - Tenet Space	0	0	0
Admin Services - Tenet	0	0	0
Depreciation	0	0	0
Interest Expense	0	0	0
Service Agreement	0	0	0
Total General Expenses	2,732,417	1,089,210	(1,643,207)
Total Operating Expenses	4,103,431	2,455,851	(1,647,580)
Direct Margin	(1,901,070)	(401,145)	(1,499,925)

V. Faculty Accomplishments

Center for Women's Health Research

Publications

- Cantor SB, **Yamal JM**, Guillaud M, Cox D, Atkinson EN, Benedet JL, Miller D, Ehlen T, Maticic J, van Niekerk D, Bertrand M, Milbourne A, Rhodes H, Malpica A, Staerker G, Nader-Eftekhari S, Adler-Storthz K, Scheurer M, Basen-Engquist K, West L, Vlastos AT, Tao X, MacAulay C, Richards-Kortum R, Follen M. Accuracy of Optical Spectroscopy for the Detection of Cervical Intraepithelial Neoplasia. *International Journal of Cancer* (in press)
- **Yamal JM**, Cox D, Atkinson EN, MacAulay C, Price R, Follen M. Repeatability of tissue fluorescence measurements for the detection of cervical intraepithelial neoplasia. *Journal of Biomedical Optics Express*, 2010 Aug; 1(2):641-657.
- Okolo, C, Franceschi S, Adewole I, Thomas JO, Follen M, Snijders PJF, Miejer CJLM, Clifford GM. Human papillomavirus infection in women with and without cervical cancer in Ibadan, Nigeria *Infectious Agents and Cancer* 2010, **5**:24doi:10.1186/1750-9378-5-24
- **Yamal JM**, Follen M, Guillaud M, Cox D. Classifying Tissue Samples from Measurements on Cells with Within-class Tissue Sample Heterogeneity. Resubmitted to *Biostatistics*. (in submission)

- In addition, Dr. Follen has the following manuscripts in press in the DrexelMed Journal (DMJ), Sex and Gender Research Special Edition (In Press)

- R. Rasal, M. Follen and S.U. Hartmann (2010).The Evolution of Sex and Gender Research at Drexel University (2007-2009) – Preliminary Data.
- Connie L. Hernandez, Eileen Shinn Ph.D., Usman Qazi Ph.D., Shalini Gera, Ph.D., Joan Brodovsky M.S., Jessica Simpson, Ph.D., Michele Follen M.D., Ph.D., Karen Basen-Engquist, PhD, MPH, Calum MacAulay Ph.D. (2010) Physician attitudes toward dissemination of optical spectroscopy devices for cervical cancer control: An Industrial-Academic collaborative study
- Bryan Pham, BS¹, Helen Rhodes, MD, Andrea Milbourne, MD, MS, Karen Adler-Storthz, PhD, Michele Follen, MD, Ph.D., Michael E. Scheurer, PhD, MPH. (2010)

- Epidemiologic differentiation of diagnostic and screening populations for the assessment of cervical dysplasia using optical technologies
- Xia Tao, Brian T. Crain, Trey Kell, Michele Follen, Isaac F. Adewole, Clement Okolo, Roderick L. Price. (2010) Electricity in Nigeria: A primer on electricity for physicians and bioengineers for work in low resources settings
 - Pierre Lane PhD, Sylvia Au, Michele Follen MD, Ph.D., Calum MacAulay PhD. (2010) Oral Fluorescence Imaging using 405nm Excitation, Aiding the Discrimination of Cancers and Precancers by Identifying Changes in Collagen and Elastic Breakdown and Neovascularization in the Underlying Stroma
 - Pierre Lane PhD, Sylvia Au, Michele Follen MD, Ph.D., Calum MacAulay PhD. (2010) Green-amber light as an adjunct to white light in the diagnosis of oral cancers and precancers in men and women.
 - Kalatu R. Davies, PhD, Dianne Miller, MD, J.L. Benedet, MD, Scott B. Cantor, PhD, Michele Follen, MD, Ph.D., Dennis D. Cox, PhD. (2010) A Methodology for Valid Assessment of Site Diagnostic Accuracy with Applications to Colposcopy as a Diagnostic Tool
 - Timon P. H. Buys, Martial Guillaud, Karen Adler-Storthz, Dennis D. Cox, Calum MacAulay, Isaac F. Adewole, Clement Okolo, Oyedunni Arulogon, Oladimeji Oladepo, Karen Basen-Engquist, Eileen Shinn, Scott B. Cantor, José-Miguel Yamal, J. Robert Beck, Michael Scheurer, Edward Neely Atkinson, Luc Bidaut, Pierre Lane, Roderick Price, Michele Follen MD, Ph.D. (2010) Detection of Cervical Neoplasia by Optical Technologies: A Program Project Update
 - Pierre Lane PhD, Michele Follen MD, Ph.D., Calum MacAulay PhD. (2010) Has Fluorescence Imaging Come of Age? A Case Series of Oral Precancers and Cancers using White Light, Fluorescence Excitation at 405 nm and Reflected Light at 545 nm using the Trimira Identafi 3000
 - Pierre Lane PhD, Michele Follen MD, Ph.D., Calum MacAulay PhD. (2010) A Pilot Study of the Trimira Identafi 3000 ® in 261 Baseball Players in the “Arizona Cactus League”, a high-risk group for oral cancer in men
 - Pierre Lane, PhD and Michele Follen MD, Ph.D. (2010) A Review of Optical Technologies that may improve the screening and detection of oral neoplasia
 - R. Rasal, N. T. Nguyen, S. L. Welles, G. Alleyne, L. Coleman, E. Aaron, M. Follen and S. Urdaneta Hartmann. Knowledge and attitudes among women and healthcare providers about HIV transmission and breastfeeding (Abstract No. P63). *Journal of Women’s Health* (2011), 20(3):477-478.
 - S. Urdaneta-Hartmann, R. Rasal, and M. Follen. The Evolution of Sex and Gender Research at Drexel University: Moving Toward Translational Research Programs in Women’s Health and Gender Studies – Preliminary Data Analysis (2006-2010). In press *Gender Medicine*.
 - S. Urdaneta-Hartmann, R. Rasal, and M. Follen. and. Sex and Gender Research Support at Drexel University College of Medicine, 2007-2010. In press *Gender Medicine*.
 - Berkowitz, K.M., Wang, P.J., Yang, F., Koenig, L.R., Jongens, T.A., and Kaestner, K.H.: Deletion of *Chtf18* Causes Premature Separation of Homologous Chromosomes during Meiosis in Male Mice, in revision (*PLoS Genetics*).

Abstracts:

- R. Rasal, N. T. Nguyen, S. L. Welles, G. Alleyne, L. Coleman, E. Aaron, M. Follen

- and S. Urdaneta Hartmann. Knowledge and attitudes among women and healthcare providers about HIV transmission and breastfeeding (Abstract No. P63). Women's Health 2011: The 19th Annual Congress, Washington, DC (April 1-3, 2011). – *RECEIVED HONORABLE MENTION*
- R. Rasal, N.T. Nguyen, S.L. Welles, G. Alleyne, L. Coleman, E. Aaron, M. Follen, and S. Urdaneta Hartmann. Knowledge and Attitudes among Women and Healthcare Providers about HIV Transmission and Breastfeeding. 3rd North American Congress of Epidemiology, Montreal, Quebec Canada (Accepted - June 2011).
 - A. Alawode, K. Lozenski, F. C. Krebs, B. Wigdahl, S. Urdaneta Hartmann. Biochemical Analysis of Milk Filtered Through the JustMilk Nipple Shield for Prevention of Mother-to-Child Transmission of HIV: Preliminary Results. Presented at the Physicians Scientists Training Program (PSTP) Research Forum. University of Pennsylvania, Philadelphia, PA (August 2010)
 - R. Rasal, S. Welles, E. Aaron, S. Urdaneta Hartmann. Perinatal Transmission of HIV through breastfeeding: Knowledge and perception among HIV–infected mothers attending an urban HIV clinic. Drexel University College of Medicine, Discovery Day, Philadelphia, PA (October 2010).
 - R. Rasal, N. T. Nguyen, S. L. Welles, G. Alleyne, L. Coleman, E. Aaron, M. Follen and S. Urdaneta Hartmann. Knowledge and attitudes among women and healthcare providers about HIV transmission and breastfeeding. Research Day 2011, Drexel University, Philadelphia, PA (April 2011) –*BEST STUDENT TRANSLATIONAL/CLINICAL RESEARCH PROJECT*
 - N. T. Nguyen, R. Rasal, S. L. Welles, G. Alleyne, L. Coleman, E. Aaron, M. Follen and S. Urdaneta Hartmann. Knowledge and Attitudes Among HIV-infected and HIV-uninfected Women About HIV, HPV, and other Sexually Transmitted Infections. Research Day 2011, Drexel University, Philadelphia, PA (April 2011).
 - R. Rasal, N. T. Nguyen, S. L. Welles, G. Alleyne, L. Coleman, E. Aaron, M. Follen and S. Urdaneta Hartmann. Maternal knowledge of mother-to-child transmission of HIV via breast milk. The College of Physicians of Philadelphia-Section on Public Health and Preventive Medicine. Public Health Poster Session & Award Recognition Awards Night. Philadelphia, PA (May 3, 2011).
 - N. T. Nguyen, R. Rasal, S. L. Welles, G. Alleyne, L. Coleman, E. Aaron, M. Follen and S. Urdaneta Hartmann. Knowledge about STDs and the desire for a vaginal microbicide. The College of Physicians of Philadelphia-Section on Public Health and Preventive Medicine. Public Health Poster Session & Award Recognition Awards Night. Philadelphia, PA (May 3, 2011).
 - Berkowitz, K.M., Wang, P.J., Yang, F., Koenig, L.R., Jongens, T.A., and Kaestner, K.H. Premature Separation of Homologous Chromosomes and Embryonic Death in *Chtf18*-null Mice. 2010 Gordon Research Conference: Meiosis, New London, New Hampshire, June 13-18, 2010
 - Khan, F., Urcuyo, D.M., Yang, F., Wang, P.J., Koenig, L., Jongens, T.A., Kaestner, K.H., Berkowitz, K.M. Disruption of *Chtf18* Causes Defects in Meiosis and Embryonic Lethality. Drexel University College of Medicine Discovery Day, Philadelphia, PA, October 7, 2010.

- Singh, T. and Berkowitz, K.M., Deletion of *Chtf18* Causes Impaired Germ Cell Development and Decreased Folliculogenesis in Female Mice. Drexel University College of Medicine Discovery Day, Philadelphia, PA, October 7, 2010. –**First place poster winner.**
- Asemota, O., Singh, T., Lewis, J.E., Patel, P., Berger, E., Berkowitz, K.M., *CTF18* plays critical roles in female gametogenesis and ovarian folliculogenesis in mammals. 66th Annual Meeting of the American Society for Reproductive Medicine, Denver, CO, October 23-27, 2010.

ELAM

- Publications
 - **Morahan, P. S.,** Rosen, S. E., **Richman, R. C., & Gleason, K. A.** (2011). The leadership continuum: a framework for organizational and individual assessment relative to the advancement of women physicians and scientists. *Journal of Women's Health, 20*(3), 387-396.
 - Burdick WP, Diserens D, Friedman SR, **Morahan PS,** Kalishman S, Eklund MA, Mennin S, Norcini JJ. Measuring the effects of an international health professions faculty development fellowship: the FAIMER Institute. *Medical Teacher.* 2010; 32:414-421.
 - **Morahan, PS, Gleason, KA, Richman, RC,** Dannels, SA, McDade, SA. Advancing women faculty to senior leadership in US academic health centers: fifteen years of history in the making. *Journal about Women in Higher Education* 2010; 3:137-162.
 - Hampton B, Sung V, **Magrane D.** Perceptions of operating room learning experiences during the Obstetrics and Gynecology Clerkship. *Jl Surgical Education: 68*(5) Sept/ Oct 2011
 - Chumley H, **Magrane D.** Energizing a medical education retreat with liberating structures, *Medical Education* 2011; 45: 529-530
 - **Magrane D,** Learman L. Faculty Promotion and Tenure Systems. In Career Development in Academic Medicine: Your Journey to Success, APGO, Revised 2011.
- Abstracts
 - **Morahan PS, Gleason KA, Magrane DM, Richman RC,** Stephenson K. Sustaining a Leadership Network: Insight from a Subset of the ELAM Community of Practice. GWIMS Poster Session, Association of American Medical Colleges, November 2010, Washington DC
 - **Magrane, DM, Morahan PS, Richman RC, Gleason KA.** Building International Capacity for Senior Women's Leadership. *Journal of Dental Education* Vol. 75, Issue 3 Supplement, March 1, 2011.
- Presentations
 - October 2010 – **Diane Magrane** presented Building International Capacity for Senior Academic Women's Leadership at the ADEA International Women's Leadership Conference, Salvador Brazil, October 2010
 - 2010 – **Page Morahan** was the invited Guest Speaker for Kate Hurd-Mead Lecture, established in Dr. Hurd-Mead's honor to celebrate and

sustain the history of women in medicine. Co-sponsored by Drexel University's Institute for Women's Health and Leadership and the College of Physicians of Philadelphia

- March 2011 – **Rosalyn Richman** and **Diane Magrane** presented Interactive and Innovative Strategies for Curriculum Change, at the American Dental Education Association, San Diego, CA
- March 2010 and 2011 - FIGO-Women's Sexual and Reproductive Rights committee meeting, **Diane Magrane** facilitated a two-day meeting to develop educational competencies and approaches to implementation, London, England
- July 2011 – **Rosalyn Richman** presented Six Career Journeys, at University of New Mexico School of Medicine, Albuquerque, NM
- Vision 2020, Conversations about Women and Leadership, Moderator for Conversation on Science, Engineering and Technology
- Honors
 - 2010 — **Page Morahan** was awarded Agnes Scott College's Outstanding Career Award for Alumnae at the Class 50 year reunion
- **Staff Accomplishments**
 - Raised over \$180,000 in Academic Sustaining Memberships and over \$35,000 in ELAM Alumnae giving
 - Olivia Lee earned her MBA from LeBow College of Business
 - Implemented, populated, and updated new CRM to advance data storing and processing capabilities
 - Re-designed and updated *ELAM Fast Facts* document for program marketing and outreach purposes
 - Developed *ELATE in Brief* document for program marketing, Fellow recruitment, and outreach purposes
 - Redesigned e-newsletter *ELAM Edge* using an online, graphical format
 - *ELAM Edge* now consistently reaches a readership level of 3-5% above the industry average for e-newsletters
 - Launched *Facebook* page (with over 50 fans) and *Twitter* feed
 - Composed and distributed regular *Message from the Director* "blog" entries
 - Initiated Alumnae Advisory Board and three support sub-committees
 - Utilized and mentored three student workers from Drexel University

Legacy Center

- Digital Collection Interpretation Project Team (Joanne Murray, Melissa Mandell, Margaret Graham, Matt Herbison):
- Teaching with Primary Sources. EduCon 2.3, January 2011
- Primary Source Activities, 1. Constitution High School, March, 2011
- Digital Collections: New Audiences, New Challenges, New Opportunities. Archivists and Librarians in the -History of the Health Sciences, April 2011
- Primary Source Activities, 2. Science Leadership Academy, May 2011
- Primary Source Activities, 3. Summer Science Camp, Franklin Institute, August 2011

- Matthew Herbison: Catablogs. Online Presence, Delaware Valley Archivists Group, October 2010
- Matthew Herbison: Open Source Tools in Archives. Mid-Atlantic Regional Archives Conference, November 2010
- Matthew Herbison: A Brief History of American Women in Medicine. Pennsylvania Academy of the Fine Arts, February 2011
- Matthew Herbison: Getting the Most Out of Your Interns and Your Internship. Delaware Valley Archivists Group, March 2011
- Joanne Murray: The Road to Sensational Leadership: The Archives Leadership Institute. Mid-Atlantic Regional Archives Conference, May 2011
- Margaret Graham, Matthew Herbison: Archives Career Panel. Delaware Valley Archivists Group

VII. Graduate Education and Mentoring

Center for Women's Health and Research

Dr. Hartmann's student research mentoring and training:

Masters Thesis Advisor of Rajashri Rasal

Thesis: "Knowledge and Attitudes Among Healthcare Providers and Women About HIV Transmission and Breastfeeding"

Advisor at the School of Public Health: Seth Welles, PhD, ScD

Current position: Graduate Research Assistant, Center for Women's Health Research, Drexel University College of Medicine

Masters Thesis Advisor of Ngoc Thien Nguyen

Thesis: "Knowledge and attitudes among HIV-infected and HIV-uninfected women about HIV, HPV and other sexually transmitted infections"

Advisor at the School of Public Health: Lisa Ulmer, MSW, ScD

Current position: Accepted, University of Washington, School of Medicine, Seattle, WA (Start date: Fall 2011)

Dr. Hartmann also supervised and mentored (with Fred C. Krebs, Ph.D.) a minority summer high school student, Dara Alawode, a participant in Physician Scientist Training Program under the STEMPREP Project of the Distance Learning Center (www.thedistancelearningcenter.org) funded in part by a grant from Johnson & Johnson.

Dr. Berkowitz's student research mentoring and training

- Rotation PhD students: Aislinn Sowash (December 2010 – April 2011) and Chelsea Burgwin (December 2010 – April 2011)
- Master students:
 - Fahmida Khan, student in the Master of Medical Science, Interdepartmental Medicine Science Program, June 2010 – June 2011
 - Peter Hewins, student in the Master of Laboratory and Animal Science program, June 2010- May 2011
 - Amanda Brooks, December 2010 - present
- Undergraduate students: Leah Hyman, June – August 2011

ELAM

Preparing Ed.D. dissertations for publication. **Dr. Morahan** has supervised Dr. Marsha White's submission of a paper to the 2012 AERA meeting, is supervising preparation of a manuscript for Academic Medicine of her work, and is supervising Dr. Scott White's revision of his dissertation for Academic Medicine. Dr. Morahan is also a committee member for Dr. Zareen Zaidi's Ph.D. in medical education at Maastricht University.

Continuing Education

ELAM

- Hedwig van Ameringen Executive Leadership in Academic Medicine program for women in medicine, dentistry and public health—a year-long part time fellowship for senior women faculty (130 CME hours granted).
- ELAM Alumnae Program, Conflict Management and Negotiation: Creating and Claiming Value, a 3-day program for graduates of the ELAM program (no CME granted).

VIII. Other Educational Activities

ELAM

FAIMER Institute: **Page Morahan** - co-director

ELAM: **Page Morahan** - Benchmarks coach, CV and executive summary development, Building Inclusive Communities workshop

Diane Magrane - Leadership (various topics) and Team/Group workshops

APGO Scholars: **Diane Magrane** - Curriculum Design Research Project development

Legacy Center

Community Education

The Legacy Center hosted the touring exhibition *Changing the Face of Medicine* at the former home of the Woman's Medical College of Pennsylvania, the Falls Center. The exhibition and related educational programming were advertised and open to the public. The middle school tour and Conversation were developed and executed for St. Bridget School students in East Falls.

- Exhibition host: *Changing the Face of Medicine: Celebrating America's Women Physicians*, The Falls Center, October – November, 2010
- Program host (play): Elizabeth Blackwell: The First American Woman Doctor, October 2010
- Guided Tour/Activity: St. Bridget's 7th and 8th grade students were invited to tour the exhibition and were assigned activities designed to encourage learning through working together and thorough viewing of the exhibit.
- Program host/participants: St. Bridget's students participated in a Conversation on Women in Medicine, devoted to discussion of the history of women in medicine,

what women doctors experience currently, and what it is like to be in medical school.

The Legacy Center loaned collection items to the Pennsylvania Academy of Fine Arts for its exhibition *Anatomy/ Academy*, reviewed label text and were part of a speaking program. This exhibition was open to the public from January through April, 2011. The Center participated in National History Day, a national competitive research project program for middle and high school students. Staff participated in early research support on-site and off, as well as competition judging.

IX. Institutional Service

Center for Women's Health Research

- **Grant Reviewer/Service on NIH/Other Study Sections:** NIH, NCI: Subcommittee A, Cancer Center Study Grant Committee, and Cancer Prevention Award Site Section Committee; NIH, NIBIB: Optical Imaging Panel to Recommend Funding Proposals; AGOS: Grant Review Committee
- Institutional: May 19, 2011 Center for Women's Health Multidisciplinary Conference Lecture, "Infertility: Evaluation and Treatment."; and July 1, 2011 – present, Faculty, Molecular and Cell Biology and Genetics program, Drexel University College of Medicine
- External/Community: 2009 - present, Scientific Program Committee member, Annual Scientific Meeting of the Society for Gynecologic Investigation

Journal Reviewer:

1990 - present Reviewer for Journal of "Gynecologic Oncology"

1993 - present Reviewer for Journal "Cancer Research"

1993 - present Reviewer for Journal "Cancer"

1994 - present Reviewer for "American Journal of Obstetrics and Gynecology"

1994 - present Reviewer for "Obstetrics and Gynecology"

1995 - present Reviewer for "International Journal of Gynecologic Oncology"

2000 - present Reviewer for "Clinical Cancer Research"

2000 - present Reviewer for "Cancer Epidemiology Biomarkers and Prevention"

2000 - present Reviewer for "The Journal of Lower Genital Tract Disease"

2000 - present Reviewer for "The Journal of Health Technology Assessment"

2000 - present Reviewer for "The International Journal of World Health"

2011 Sex and Gender Research Forum (SGRF) – Chair, Organizing Committee: Dr. Follen is organizing and sponsoring the 2011 SGRF and she is publishing the proceedings of the 2010 SGRF in *Gender Medicine*. She plans to also publish in this journal the 2011 proceedings as well.

ELAM

- Women in Academic Medicine committee – **Rosalyn Richman** and **Diane Magrane**, Liaison members
- DUCOM Strategic Planning Retreat (invitational), July 2011 – **Diane Magrane**

- Search Committee, Director Sex and Gender Research, IWHL - 2009 – 2010 – **Diane Magrane**
- Marian Spencer Fay Award Selection Committee – 2010 – **Diane Magrane**
- External Reviewer, PhD Dissertation Committee, Marsha McClean - March 2010
George Washington University Graduate School of Education and Human
Development – **Diane Magrane**
- ELATE National Advisory Board Two Day Meeting – Co-hosted by **Diane
Magrane** and **Katharine Gleason**

Legacy Center

Joanne Murray:

- Legacy Committee
- WMC/MCP Trust Fund (ex-officio)
- IWHL 20th Anniversary Committee, co-chair
- Digital Research Center development committee

X. Community Service

Legacy Center

The Legacy Center again provided leadership and management in processing a collection owned by the College of Physicians of Philadelphia. Due to space and staffing constraints, the College could not undertake this project, so the Legacy Center has processed the College's collection of S. Weir Mitchell materials. This collection, now safely housed, organized and electronically cataloged, provides researchers with previously inaccessible material.

Joanne Murray, Legacy Center Director, elected Democratic Committee Person in 2010 for a four-year term, serves in Area 3, Lower Salford, Montgomery County.

XI. Research

Center for Women's Health Research

Faculty: Dr. Sandra Urdaneta-Hartmann and Dr. Karen Berkowitz

Graduate Students: Student research mentoring and training: Two MPH students (Rajashri Rasal and Ngoc Thien Nguyen), who conducted their masters thesis research at the CWHR

All senior residents and fellows must present a research project of peer review quality during their senior year at the Department Resident Research Evening as well as to the regional Obstetrical Society of Philadelphia. All senior residents and fellows must also present their research projects at the Drexel University Research Day and submit an abstract of their project to the DrexelMed Journal. Below is a description of the research requirement for each year:

PGY1 ~ Research Requirements

1) **Research Preparation** – is a mandatory part of the program as outlined in the attached research flow sheet. The PGY1 resident should be able to do the following by

the end of the PGY1 year:

- a. **Ask a question about women's health care.**
- b. **Do a literature search on the question.**
- c. **Find an interested and willing faculty mentor to help them pursue their research.**

PGY2 ~ Research Requirements

1) **Research Preparation** – is a mandatory part of the program as outlined in the attached research flow sheet. PGY2 residents present their preliminary projects at the Stein Memorial Department Research night in the spring. This falls under the practice based learning and medical knowledge competency. The PGY2 resident will have the opportunity to meet with the research statistician in Dr. Follen's office to review their projects and establish their needs.

PGY3 ~ Research Requirements

1) **Research Preparation** – research is a mandatory part of the program as outlined in the attached research flow sheet. This is part of their medical knowledge and patient care competency assessment. The PGY3 resident should complete their project during this year and be ready to meet all requirements of the PGY4 year.

PGY4 (and Fellows: a, b and d) ~ Research Requirements

- 1) **Research Preparation** – is a mandatory part of the program as outlined in the attached research flow sheet. This is part of their medical knowledge and patient care competency assessment. They have the following obligations:
- a. **DUCOM OBGYN Department Stein Memorial Resident Research Night** – the resident must present their project at this conference.
 - b. **DUCOM DrexelMed Journal** – residents must submit their abstract to this internal journal by January of PGY4 year.
 - c. **OB Society of Philadelphia S. Leon Israel Resident Research Award** – residents must submit their project in Green Journal format to the OB Society by April 1 of PGY4 year.
 - d. **Drexel Spring Research Day** – residents must submit their projects for a poster presentation to the Drexel University Research day by March 15th of their PGY4 year.

The OB/GYN department organizes the yearly Seymour Stein Memorial, a research event that showcases resident research. In 2011 it took place on April 8 and was hosted by Dr. Robert Goldenberg and Dr. Paul Nyirjesy. Below is a list of research presentation by OB/GY residents and fellows at this event:

PGY2 Resident Presentations

The Push to Incorporate Adolescent Contraception in Pediatric Practices

Resident: Sherron Colgram, MD

Faculty: Lamar Ekbladh, MD

The Effects of Change in Weight on Maternal and Fetal Outcomes for Obese Pregnant Patients

Resident: Meghan Patel, MD

Faculty: Lauren Plante, MD

Treatment of Non-albicans Vulvovaginal Candidiasis

Resident: Brandi Musselman, MD

Faculty: Paul Nyirjesy, MD

The Burden of Obstetrics Hemorrhage in Developing Nations: What Can be Learned From the Past?

Resident: Matthew Cantor, MD

Faculty: Robert Goldenberg, MD

OB/GYN Resident Experience & Attitudes on Duty Hour Policy Threats to Patient Safety and Effects on Resident Education

Resident: Justin Rasner, MD

Faculty: Mark B. Woodland, MD and Dipak Delvadia, DO

Predictors of Maternal and Neonatal Outcomes in Sub-Saharan African Populations

Resident: Gayle Matthews, MD

Faculty: Robert Goldenberg, MD

PGY4 Resident Presentations

Efficacy of a Single Incision Mid-Urethral Sling With or Without Concomitant Pelvic Organ Prolapse Surgery

Resident: Peter O'Hare, III, MD

Faculty: Kristene Whitmore, MD

CTF18 Plays Critical Roles in Female Gametogenesis and Ovarian Folliculogenesis in Mammals

Resident: Obehi Asemota, MD

Faculty: Karen M. Berkowitz, MD

Short-Term IUD Discontinuation at an Urban Center

Resident: Ga Yi Lee, MD

Faculty: Lamar Ekbladh, MD

Short Term Retention of Hysteroscopic Knowledge

Resident: C. Allana Denis, MD

Faculty: Kelli Daniels, MD

HIV and Pre-Eclampsia in a Philadelphia Population

Resident: Keren Lerner, MD

Faculty: Gregg Alleyne, MD

Hysteroscopic Office Surgery: A Comparison of Complication Rates Between an Academic and Private Practice

Resident: Ryan Brannon, MD
Faculty: Minda Green, MD

Fellow Presentations

Single Port Access Gynecologic Surgery: A Three year Experience with Standard Instrumentation

Resident: Minda Green, MD
Faculty: Stephanie King, MD

Risks Factors for Vaginal Mesh Extrusion After Robotic-Assisted Laparoscopic Sacrocolpopexy: A Retrospective Cohort Study

Resident: Dominique El-Khawand, MD
Faculty: Kristene Whitmore, MD

Clinical Efficacy of Changing the InterStim Parameters in Patients with Interstitial Cystitis/Painful Bladder Syndrome

Resident: Salim Wehbe, MD
Faculty: Kristene Whitmore, MD

ELAM

- The ELAM Program, in conjunction with the University of New Mexico, The University of Texas MD Anderson Cancer Center, and the Association of American Medical Colleges (AAMC) was awarded a one-million dollar grant from the National Institutes of Health to study the effect of participation in the AAMC Women in Medicine Programs and the ELAM program on the recruitment, retention, and promotion of women in academic medicine. The four-year study is titled “Achieving a critical mass of women biomedical scientists: Impact of 3 US Programs.” Funding became available in September 2009 and satisfactory progress has been made on all project goals to date.
- The ELAM Program continues to analyze the data gathered from surveys of ELAM fellows. Preliminary analysis of communication patterns within five networks (work, collaboration, innovation, career advice, and expert advice) indicates that robust connections exist both within individual class years, as well as across class years and disciplinary boundaries. Manuscripts are in progress.

Legacy Center

Research – New Awards

- Grant-funded: Currently, the Hertiage Philadelphia Program (Pew) is supporting a planning project, nearing completion, to engage high school students while using the Center’s online digital collection. A proposal to the Connelly Foundation has been submitted to support Phase I of implementation, and a request for bridge funding to support a position has been submitted to the College of Medicine’s Franklin Trust fund. Plans are in place to submit proposals to the Pew Heritage

Philadelphia Program and to the Institute for Museum and Library Services for implementation grants.

- Fellowship: The M. Louise Gloeckner Summer Fellowship is an annual stipend offered to researchers internationally. The results of their work are made available on the Center's website.

XII. Curriculum Vitae of the Faculty

D. Walter Cohen

Michele Follen

Sandra Urdaneta Hartmann

Diane Magrane

Page Morahan

Joanne Murray

Catherine Ormerod

Rosalyn C. Richman

Lynn Yeakel

Julie Yeh

Chancellor's Office Report

In the past year, Dr. D. Walter Cohen held a second-year program for the oral health initiative, which is an elective for first- and second-year medical students at Drexel University College of Medicine. There are 10 lectures, each held monthly, on different aspects of oral health. In addition, the students spend four hours at the emergency clinic observing at the Kornbey School of Dentistry at Temple University. Students receive credit for their participation, and the third year of the program has begun for 2011-2012.

The 12th D. Walter Cohen Lecture in Diabetes was held in November 2010 with Professor Barbara Kahn as the speaker. An ELAM alumna, Dr. Kahn, is a professor at Harvard Medical School and she also gave Grand Rounds for the Department of Medicine.

Dr. Cohen has served as chairman of the development and marketing committee of the PHEC board. The committee has a responsibility to lead the campaign to raise \$100 million for the College of Medicine as part of the Drexel University campaign to raise \$400 million by 2014.

Dr. Cohen also serves on the Dean's Advisory Committee of the School of Public Health as well as the Friends of the 11th Street Facility of the School of Nursing and Health Professions. He also serves on the selection committee for the Marion Spencer Fay Award as well as the Woman One Award Committee. He is serving as co-chair of the 20th anniversary celebration for the Institute for Women's Health and Leadership.