2010 Annual Report: Faculty International Initiatives

Industrial and Physical Pharmacy

- Stephen R. Byrn
  - The Sustainable Medicines for Africa program was offered in March and August, 2009.
  - Developing a link to the World Health Organization (WHO) Better Medicines for Children program.
  - Sustainable Medicines for Africa, March and August, 2010, Kilimanjaro School of Pharmacy, Moshi, Tanzania (on-going).

- M. Teresa Carvajal
  - French American Council (FACE) - Exchange graduate students US and France.
  - Exchange students from Univ. Autonoma Del Estado de Morelos, Mexico.

- Mark A. Green
  - Initiated a plot research collaboration with the PET program at Turku (Finland), in response to their expressed interest in radiopharmaceuticals derived from our gallium bis9salicylaldimine) chelates.

- Gregory T. Knipp
  - Adjunct Professor of Pharmaceutics, Faculty of Pharmacy, School of Pharmacy, Universidad Autonoma del Estado de Morelos, Cuernavaca, Morelos, Mexico and hosting exchange students.

- James D. Litster
  - Honorary Professor, The University of Queensland, Australia (2007 – present).
  - Member of the Vice Chancellors Review Panel for the School of Engineering at Warwick University. UK (June 2009).
  - Establish a formal partnership with Monash University Pharmaceutical Engineering Program for graduate student exchange and research collaboration.
  - Facilitated the signing of a new Student Exchange agreement between the University of Queensland and Purdue University.
  - International Organizing Committee, 9th International Symposium on Agglomeration, Sheffield, UK 2009.
  - International Organizing Committee, 6th World Congress on Particle Technology, Nurnberg, Germany, 2010.
  - Track Chair, 6th International Conference on Conveying and Handling of Particulate Solids, Brisbane, August 2009.

- Kinam Park
  - Advisory Professor for Medical Science Research at Kyungpook National University (2009-2012).

- Rodolfo Pinal
  - Exchange students from Univ. Autonoma Del Estado de Morelos, Mexico.
  - French American Council (FACE) - Exchange graduate students US and France.
  - Assisted Eli Lilly staff with recruiting students from Purdue University for positions with Eli Lilly (Puerto Rico).
  - Universidad Autonoma Metropolitana, Mexico. Presentation Industry-academia collaboration through the activities of the Dane O. Kildsig Center for Pharmaceutical Processing Research (CPPR), April 2010.
  - ITESM (Tec de Monterrey) - Hosted and guided undergraduate Chemical Engineering research students, May - August, 2010.
  - Summer 2010 - Martha Arellano Trevino, Industrial funds.
  - Summer 2010 - Mariana Ricano Morena, Industrial funds.
  - University of Strasbourg, France. Hosted and guided students, Pierre Koch and Sophia Hannou, for the research portion of their MS degree (on-going).

- Daniel T. Smith

- Lynne S. Taylor
  - Submitted a joint proposal with a UK colleague to the NSF/Engineering and Physical
Sciences Research Council (EPSRC) (Nov 2009).

- Kara Weatherman
  - Coordinated London NUPH clerkship rotation – 8 students total.

- Yoon Yeo
  - Presentation on Therapeutic nanoparticle engineering for drug/gene delivery, Duksung Women's University, Seoul, Korea, May 29, 2009.
  - Presentation on Therapeutic nanoparticle engineering for drug/gene delivery, Hanbat University, Daejeon, Korea, May 27, 2009.
  - Presentation on Therapeutic particle engineering for drug delivery, at the 2009 Korean-American Scientists and Engineers Association Midwest Regional Conference, Oakbrook Terrace, IL, February 28, 2009.
  - Presentation at the annual Purdue/KIST symposium on Gene delivery through the use of a hyaluronate-associated intracellularly degradable polyethyleneimine. Purdue University, West Lafayette, IN, September 21, 2009.
  - Faculty Advisor, Purdue Korean Cultural Club: Guide student activities hosting Korean movie festivals and inviting sponsors.

**Medicinal Chemistry and Molecular Pharmacology**

- Ching-jer Chang
  - Hong Kong Research Grant Council, Review Committee.
  - Regional Editor, *Journal of Asian Natural Product Research*.

- Mark S. Cushman
  - Hosted Bin Sun, a visiting graduate student from Shandong University, China (Support: China Scholarship Council).
  - Hosted Professor Jian-Hua Liang, a Visiting Professor from the School of Life Science, Beijing Institute of Technology, China (Supported by China Scholarship Council).

- Arun K. Ghosh

- Richard A. Gibbs
  - As a member of the American Chemical Society Division of Medicinal Chemistry, he participated in outreach to the European Federation of Medicinal Chemistry and the Asian Federation of Medicinal Chemistry.
  - “Solid-phase synthesis of prenylcysteine analogs: development of potent isoprenylcysteine carboxylmethyltransferase inhibitors” presented as a part of session on “Hot Topics in Medicinal Chemistry” at the 7th International Symposium for Chinese Medicinal Chemists, Kaohsiung Medical University, Kaohsiung, TAIWAN, February 3, 2010.

- Gregory H. Hockerman
  - Collaboration with Dr. Steffen Hering, University of Vienna, to study the molecular determinants of L-type channel block by quaternary amine derivatives of diltiazem.

- Chang-Deng Hu
  - Served as a reviewer of multiple international journals.

- Markus A. Lill

- David E. Nichols
  - Member of International Advisory Board for the Center for Integrated Molecular Brain Imaging, Copenhagen, Denmark, 2010.

- Val J. Watts
  - Member, Internationalization Committee (2008-2010).
  - College representative for University's ACE/Internationalization Committee.

**Pharmacy Practice**

- Steven R. Abel
  - Member of the Scientific Advisory Panel for the 1st International Conference on Human Factors and Ergonomics in Healthcare (ICHFEH), held in Miami, Florida, July 2010.

- Robert W. Bennett
International Nontraditional Doctor of Pharmacy Program, Dubai, UAE - The program was started in January 2003. At the current time, 42 students have graduated, 10 students are completing their advanced clerkships this year and 40 students divided into 2 cohorts are taking course work. 15 students will be ready for their clinical rotations by May 2010.

Karen S. Hudmon
- Emerging Role of Pharmacists in Tobacco Control and Pharmacy Education. Presented for Deans of Schools of Pharmacy, Thailand, at Chulalongkorn University, Bangkok, Thailand, September 2009.
- Collaboration with Guatemala-based research study (paper under review): Smoking cessation medications and cigarettes in Guatemala pharmacies.

Kellie L. Jones
- International Society of Oncology Pharmacy Practice (ISOPP) Research Committee Chair.
- Spoke at bi-annual meeting in Prague, Czech Republic (2 talks, moderated 3 sessions): CE Lecture: Updates in the Treatment of Metastatic Breast Cancer and Getting Your Abstract/Poster Accepted.

Yaman Kaakeh
- Purdue University-Lebanese American University Collaboration, Pharmacy exchange rotation planning (July 08-May 09; ongoing).

Cynthia P. Koh-Knox
- Hosted two faculty members of the Chulalongkorn University Pharmacy School, July 2009 (2 days).
Sonak D. Pastakia

- His practice is entirely international with all of his activities representing international activities.
- September 2007-Present: “The Implementation of Comprehensive Diabetes Care in a Rural Resource-Constrained Setting” Conducted at Moi Teaching and Referral Hospital, Eldoret, Kenya. Investigators: Sonak Pastakia, Robert Blount, MD, and Jak S. Nyabundi MBChB. Key Accomplishments: completed development of one of the first databases designed to manage diabetes in a resource-constrained setting; successfully implemented the first pilot of home glucose monitoring in a resource-constrained setting; recipient of $350,000 worth of home glucose monitoring supplies from Abbott Laboratories; implemented diabetes care at a remote satellite clinic in Webuye; anticipated expansion of diabetes care model throughout Western Kenya.
- July 2008-Present: “The Impact of a Pharmacist-Managed Anticoagulation Clinic in a Rural Resource-Constrained Setting” Conducted at Moi Teaching and Referral Hospital, Eldoret, Kenya. Investigators: Sonak Pastakia, Imran Manji, B Pharm, Ellen Schellhase, PharmD, and Constantine Akwanalo, MBchB. Key Accomplishments: successfully implemented an entirely new pharmacist managed anticoagulation clinic at Moi Teaching and Referral Hospital; recipient of $40,000 worth of medication supplies to pilot out this innovative care approach; helped train three local Kenyan pharmacists on the provision of this service; awaiting response on a proposal for $450,000 worth of support over the next three years to continue to expand this service.
- May 2009-Present: “The Extra Life Initiative-Program designed to build sustainable interventions for the growing street kids problem in Eldoret” Conducted in Eldoret, Kenya. Faculty Involved: Sonak Pastakia, Paula Braitstein PhD, Strother Robert, MD, Elizabeth Chester, Marisa Holubar, MD, and Eunice Kamara PhD.
- June 2009-Present: “Frequency and outcomes of diseases observed in the inpatient setting of a rural resource-constrained setting” Conducted at Moi Teaching and Referral Hospital, Eldoret, Kenya. Investigators: Sonak Pastakia, Ellen Schellhase, PharmD, Imran Manji, B Pharm, Messai Belayneh, Claire Landis, Emily Chambers.
- Dec 2009 – Present “Home Based Counseling and Testing for Diabetes” Conducted within the AMPATH catchment area of Western Kenya, Amount: $100,000 (renewed at this amount annually in 2009 and 2010). Source: Abbott Foundation. Implementers: Sonak Pastakia, Joe Mamlin, MD, Jemima Kamano, and Robert Einterz, MD.


Jan 2008 – Present “Tumaini Center Street Kids Project” Conducted at Moi Teaching and Referral Hospital, Eldoret, Kenya, Amount: $2,000. Source: Service Learning Office, Purdue University. Implementers: Sonak Pastakia, Ellen Schellhase, Tim Mercer, Elizabeth Chester, Samuel Kimani.

Ellen M. Schellhase
- All research and engagement is focused on the Kenya program.

James E. Tisdale