2010 Annual Report: Graduate Degrees Awarded (August 2009 thru May 2010)

Please help the College of Pharmacy congratulate our most recent MS and Ph.D. graduates.

Industrial and Physical Pharmacy

- **Nathan Andrew Boersen, PhD** - May 8, 2010
  - Co-Major Professors: Garnet E. Peck and Rodolfo Pinal
  - Thesis Title: The Development of Roller Compacted Formulations Using Multivariate and Dimensional Analysis

- **David Richard Ely, PhD** - May 8, 2010
  - Major Professor: M. Teresa Carvajal
  - Thesis Title: Dry Powder Segregation and Flowability: Experimental and Numerical Studies
  - Post-graduation destination: Post-doc, Heinrich Heine University, Dusseldorf, Germany

- **Robbie Lou Hayward, MS** - May 8, 2010
  - Co-Major Professors: Stephen R. Byrn and Michael J. Schmidt
  - Non-thesis MS

- **Ji Young Kim, PhD** - August 7, 2009
  - Major Professor: Kinam Park
  - Thesis title: Hydrotropic solubilization of poorly soluble drugs
  - Post-graduation destination: Industry, LG Industries, Seoul, Korea

- **David John Lindley, PhD** - December 19, 2009
  - Major Professor: Gregory T. Knipp
  - Thesis Title: Expression and Functional Analysis of Proton-dependent Oligopeptide Transporter Members
  - Post-graduation destination: Industry, Research Scientist, Abbott Laboratories, North Chicago, IL

- **Jennifer Ann Maguire, PhD** - December 19, 2009
  - Major Professor: Stanley L. Hem
  - Thesis Title: Utilizing fluorescence spectroscopy to investigate the tertiary structure of antigens adsorbed onto and eluted from aluminum-containing adjuvants
  - Post-graduation destination: Job hunting in NJ

- **Dawn Niccum, MS** - August 7, 2009
  - Major Professor: Steven R. Byrn
  - Non-thesis MS

- **Michelle Kristin Papp, PhD** - December 19, 2009
  - Major Professor: Rodolfo Pinal
  - Thesis Title: Application of Acoustic Emission to the Monitoring of Pharmaceutical Unit Operations
  - Post-graduation destination: Industry, Research Scientist, Eurand American, Dayton, OH

- **Alfred Conrad Frederick Rumondor, PhD** - August 7, 2009
  - Major Professor: Lynne S. Taylor
  - Thesis Title: The effects of moisture on pharmaceutical amorphous solid dispersion systems
• Post-graduation destination: Industry, Astra Zeneca (RIF’ed in 2010)

• Kumar Vedantham, PhD - December 19, 2009
  Major Professor: Kinam Park
  Thesis Title: Development of Two-drug Eluting Stents
  Post-graduation destination: Academia, Research Fellow, Center for Biomedical Engineering Systems, UNC, Charlotte, NC

**Medicinal Chemistry and Molecular Pharmacology**

• Animesh Vinay Aditya, PhD - May 8, 2010
  Major Professor: Richard A. Gibbs
  Thesis Title: Investigation of Peptide Substrate Specificity and Design of Novel Bisubstrate Inhibitors of Protein Geranylgeranyl Transferase-I
  Post-graduation destination: Post-doc, Scripps Institute, FL

• Bethany Marie Alicie, MS - December 19, 2009
  Major Professor: Robert L. Geahlen
  Thesis Title: Syk and the regulation of the microtubule cytoskeleton in breast cancer cells
  Post-graduation destination: Education, Research Associate, U Tx M. D. Anderson Cancer Center, Houston, TX

• Lisa Ann Bonner, PhD - August 7, 2009
  Major Professor: David E. Nichols
  Thesis Title: Expanding the Structure-Activity Relationships of Dopamine D<sub>1</sub> Agonists: Mapping the Catechol Hydrogen Bonding Network and Probing the Accessory Binding Region of D<sub>1</sub> Receptors
  Post-graduation destination: Education, Asst. Professor, St. Anselm's College, Manchester NH

• Benjamin Reed Chemel, PhD - May 8, 2010
  Major Professor: David E. Nichols
  Thesis Title: Exploring the Molecular Determinants of Binding Selectivity and Efficacy for D<sub>1</sub> Dopamine Receptor Agonists
  Post-graduation destination: Government, Research Botanist, USGS and NREL, Wyoming

• Katie Jean Head, MS - August 7, 2009
  Major Professor: Jean-Christophe Rochet
  Thesis Title: The role of oxidative stress and alpha-synuclein aggregation in Parkinson’s disease;
  Post-graduation destination: Government, Biological Research Technician, USDA - Agricultural Research Service, West Lafayette, IN

• Bridget Dolash Hines, PhD - August 7, 2009
  Major Professor: Donald E. Bergstrom
  Thesis Title: Sonication-Mediated Association of DNA with Single-walled Carbon Nanotubes: Characterization and Potential Biological applications
  Post-graduation destination: Government, Regular Fellow, NIOSH/CDC, Morgantown, WV

• Timothy Wayne Husk, PhD - May 8, 2010
  Major Professor: Donald E. Bergstrom
  Thesis Title: Peptide Nucleic Acid Based Quadruplex Forming Oligonucleotides as a Scaffold for Protein Interaction Inhibition
  Post-graduation destination: Government, Forensic Chemist with the DEA, Chicago, IL

• Stephanie Renae Kidd, MS - August 7, 2009
  Major Professor: Laurie L. Parker
  Thesis Title: Applying protein specific biosensors towards the understanding of Alzheimer’s disease
  Post-graduation destination: Industry, Gallo Wineries, CA

• Fang Liu, PhD - May 8, 2010
  Major Professor: Jean-Christophe Rochet
  Thesis Title: Neuroprotective Functions Of Dj-1 and MsrA: Implications for Parkinson's
Disease
- Post-graduation destination: Industry, Financial Software Developer, Bloomberg L.P., NY

- Maria Movafegh, MS - December 19, 2009
  - Major Professor: Marietta L. Harrison
  - Thesis Title: The Role of Phosphorylation of Serine 59 of Lck on T-cell Receptor Mediated Signaling
  - Post-graduation destination: Technical Assistant Charles River Laboratories, Malvern, PA

- Michelle R. Mynderse, PhD - May 8, 2010
  - Major Professor: Richard A. Gibbs
  - Thesis Title: Probing Protein Geranylgeranylation: Development of GGPP Analog SAR to Selectively Target CGTase I
  - Post-graduation destination: Intern at Purdue University, Office of Technology Commercialization

- Su Sien Ong, PhD - December 19, 2009
  - Major Professor: Marietta L. Harrison
  - Thesis Title: Role of the SH3 Domain of Lck in its Trafficking and Localization in T-cells
  - Post-graduation destination: Postdoctoral Research Associate, Dept. of Chemical Biological and Therapeutics, St. Jude’s Research Center, Memphis, TN

- Leela Louise Paris, PhD - August 7, 2009
  - Major Professor: Robert L. Geahlen
  - Thesis Title: The phosphorylation of S291 on Syk and its role in B cell signal transduction
  - Post-graduation destination: Education, Postdoctoral Fellow, Clarion Transplant Institute, IUSM, Indianapolis, IN

- Andrew Theodore Placzek, PhD - August 7, 2009
  - Co-Major Professors: Marietta L. Harrison and Richard A. Gibbs
  - Thesis Title: Synthesis and biological evaluation of centrally modified farnesyl pyrophosphate analogs
  - Post-graduation destination: Education, postdoc,

- Julie Ann Przybyla, MS - August 7, 2009
  - Major Professor: Val J. Watts
  - Thesis Title: Novel Events in Dopamine Receptor Signaling and Regulation
  - Post-graduation destination: Student at Purdue in HKLS

- Natalie Rae Sealover, PhD - May 8, 2010
  - Major Professor: Eric L. Barker
  - Thesis Title: Role of the Human Serotonin Transporter External Gate in Substrate and Antagonist Recognition
  - Post-graduation destination: Industry, Monsanto, St. Louis, MO

- Yeong-Shiuh John Shyu, PhD - December 19, 2009
  - Major Professor: Chang-deng Hu
  - Thesis Title: Understanding the role of ATF-1 homodimer in caenorhabditis elegans development using a novel bimolecular fluorescent complementation based dominant dimeric repressor assay
  - Post-graduation destination: Industry, Field Scientist for Corning, NY

- Joshua Mark Ward, PhD - May 8, 2010
  - Major Professor: Carol B. Post
  - Thesis Title: Peptide Binding to the Src SH2 Domain Studied by NMR and Molecular Dynamics: Exploring the Energetic Impact of Dynamic Averaging in the Context of Enthalpy-Entropy Compensation
  - Post-graduation destination: Education, Postdoc, Dept. of Chemistry, Purdue University, WL, IN

Pharmacy Practice
- Ahmed Mohamed Abdel Hady Ali Abo Zeid, MS - May 8, 2010
  - Major Professor: Brian R. Overholser
- Thesis Title: The Development of a pharmacokinetic model describing the disposition of efavirenz and its major metabolites: 8-hydroxyefavirenz and 8, 14-dihydroxyefavirenz
- Post-graduation destination: Continuing on as PhD student

- Aleda Marie Hess, MS - December 19, 2009
  - Major Professor: Kimberly S. Plake
  - Thesis Title: The Health Literacy, Self-Care, and Medication Hassles of Patients with Heart Failure and Their Caregivers
  - Post-graduation destination: Continuing on as PhD student

- Mary Kiersma, MS - August 7, 2009
  - Major Professor: Kimberly S. Plake
  - Thesis title: Factors affecting pre-pharmacy students' perception of the professional role of a pharmacist
  - Post-graduation destination: Continuing on as PhD student

- Ankita Bharat Modi, PhD - May 8, 2010
  - Major Professor: Joseph Thomas III
  - Thesis Title: Diabetes Ambulatory Care- Sensitive Hospitalizations, Care Organization, and Medication Adherence
  - Post-graduation destination: Industry