**Residential School on Medicinal Chemistry:**  
*Biology and Chemistry of Drug Discovery*  
Drew University, Madison, New Jersey  
June 4 – 8, 2012

### Lectures
- “Principles of Medicinal Chemistry”  
- “Enzyme Inhibition”  
- “Receptor Binding Assays”  
- “Hit-to-Lead Process in Drug Discovery”  
- “Fragment-based Drug Design”  
- “Structure-based Drug Design”  
- “Drug-like Properties in Drug Discovery”  
- “Plasma Protein Binding”  
- “Toxic Metabolites”  
- “Preclinical Toxicology”  
- “G-Protein Coupled Receptors”  
- “Drug Metabolism”  
- “Drugs Affecting ION Channels”  
- “Bioisosteres”  
- “Clinical Development”

### Faculty
- Richard Silverman, Ph.D., *Northwestern University*  
- Eugene Cordes, Ph.D., *Vitae Pharmaceuticals*  
- Christopher Haber, Ph.D., *Pfizer*  
- Craig Lindsley, Ph.D., *Vanderbilt University*  
- Miles Congreve, Ph.D., *Heptares Therapeutics*  
- Jonathan Greer, Ph.D., *Abbott Laboratories*  
- Ed Kerns, Ph.D., *NIH*  
- Randy Miller, Ph.D., *Merck*  
- John Erve, Ph.D., *Novartis*  
- James MacDonald, Ph.D., *Chrysalis Pharma*  
- Jeff Reagan, Ph.D., *Amgen*  
- William Windsor, Ph.D., *Merck*  
- John Erve, Ph.D., *Novartis*  
- David J. Triggle, Ph.D., *SUNY Buffalo*  
- Nicholas Meanwell, Ph.D., *Bristol-Myers Squibb*  
- James McLeod, Ph.D., *Galleon Pharmaceuticals*

### Seminars
- “Molecular Modeling”  
- “Pharmacokinetics and ADME”

### Faculty
- Jonathan Greer, Ph.D., *Abbott Laboratories*  
- Cheryl Zimmerman, Ph.D., *U. of Minnesota*

### Case Histories
- “Suvorexant”  
- “Eltrombopag”  
- “Saxagliptin”  
- “Vemurafenib”  
- “Crixotinib”

### Faculty
- Paul Coleman, Ph.D., *Merck*  
- Kevin Duffy, Ph.D., *GlaxoSmithKline*  
- Jeffrey Robl, Ph.D., *Bristol-Myers Squibb*  
- Chao Zhang, Ph.D., *Plexxikon*  
- Jean Cui, Ph.D., *Pfizer*