Capstone Project Poster Titles
2012 -2013

Bench Research

1. **Second Order Kinetics of Tetracaine Solvolysis by Propylene Glycol**
   Michael Goolsby , Pharm.D. Candidate
   Mentors: Tim McPherson, Ph.D., William Kolling, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. **An Investigation into the Catalysis of Peroxynitrite Decomposition**
   **A Focus on Manganese(III) Bis-Hydroxyphenyldipyrromethene Complexes**
   Harry Zollars, Pharm.D. Candidate
   Mentor: Bill Neumann, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
   Honorable Mention – SIUE School of Pharmacy Poster Day 2013
   SIUE Senior Showcase Presenter 2013

Business Plans

1. **Hypertension Screening Services for Prescriptions Plus Pharmacy**
   Chris Buchheit , Pharm.D. Candidate
   Mentor: Lou Schlaefer, R.Ph.
   Prescription Plus Pharmacy, Lebanon, Illinois

2. **Watson’s Cooperative**
   Debbie Carlson, Pharm.D. Candidate
   Mentors: Bart Caldieraro, R.Ph. and Walter Siganga, Ph.D.
   Watsons Pharmacy, Greenville, Illinois
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

3. **Off Site Pharmacy-Based Immunization Program Business Plan**
   Jennifer Hund, Pharm.D. Candidate
   Mentor: Lou Schlaefer, R.Ph.
   Prescription Plus Pharmacy, Lebanon, Illinois

4. **West Pine Fit Pharmacy: A Business Plan**
   James Moreno, Pharm.D. Candidate
   Mentor: Bronda Roby, R.Ph.

5. **Diabetes Awareness and Screening Program in an Independent Pharmacy: A Business Proposal**
   Amanda Peterson, Pharm.D. Candidate
   Mentor: Paul Khoury, R.Ph.
   Khoury Pharmacy Health Mart, Columbia, Illinois
6. **Business Plan for Medicine Shoppe Pharmacy**  
Stephen Potts, Pharm. D. Candidate  
Mentor: Kathy Sutton  
Medicine Shoppe Pharmacy, Fairfield, Illinois

7. **Implementing a Medication Therapy Management Service at an Independent Retail Pharmacy**  
Emily Powers, Pharm.D. Candidate  
Mentor: Michael Schaltenbrand, R.Ph.  
Medicate Pharmacy, East St. Louis, Illinois

**Surveys**

1. **Patient Satisfaction and Feedback Survey of Medication Therapy Management Services After a Complete Medication Review**  
Seth K. Anato, Pharm.D. Candidate  
Mentor: Christie Reyling, R.Ph.  
Walgreens Pharmacy, Collinsville, Illinois

2. **Retrospective Evaluation of a 30-day Pneumonia Readmission Risk Calculator at a Tertiary Medical Center**  
Ryan Birk, Pharm.D. Candidate  
Mentors: Jennifer Arnoldi, Pharm.D. and Ginger J Ertel, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois  
St. John’s Hospital, Springfield, Illinois  
Best Poster Award – SIUE School of Pharmacy Poster Day 2013

3. **Reasons for Missed Appointments and Medication Non-adherence in the Ambulatory Care Setting**  
Julie Buchheit, Pharm.D. Candidate  
Mentor: Lakesha Butler, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

4. **A Survey of the Current Role of Complementary and Alternative Medicine and Natural Products in Pharmacy Curricula**  
Eric Callison, Pharm.D. Candidate  
Mentor: Jennifer Rosselli, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

5. **The Patient Perspective of Pharmacist Counseling**  
Stephanie Dilbeck Stewart, Pharm.D. Candidate  
Mentor: Amanda Randazzo, Pharm.D.  
Walgreens Pharmacy, O’Fallon, Illinois
6. **Evaluation of the Relationship between Pharmacy Student Grade-Point-Average and Prior Pharmacy Work Experience**
   Elise Elliott, Pharm.D. Candidate  
   Mentor: Deanne Remmert, R.Ph.  
   Wal-Mart Pharmacy, Highland, Illinois

7. **Pharmacy Student’s Knowledge and Perceptions of Preparation for Nontraditional Roles in Pharmacy**
   Lydia Freed, Pharm.D. Candidate  
   Mentor: Christopher Lynch, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

8. **Community Pharmacist Perceptions of Over-the-Counter (OTC) Medication Consultations**
   Eric Hellrung, Pharm.D. Candidate  
   Mentor: Miranda Wilhelm, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

9. **Practicing Pharmacists’ Knowledge, Skills and Attitudes of Pain Management**
   Deborah Helmink, Pharm.D. Candidate  
   Mentor: Chris Herndon, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

10. **Health-Related Decisions of Pharmacy Students Throughout Their Didactic Career**
    J. Benjamin Holt, Pharm.D. Candidate  
    Mentor: Lisa M. Payne, R.Ph.  
    Walgreens Pharmacy, St. Louis, Missouri

11. **Assessing a Patient Education Video: Discussing Non-pharmacological Treatments to Help Manage Chronic Pain**
    Mark Hotop, Pharm.D. Candidate  
    Mentor: Carrie Vogler, Pharm.D.  
    Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

12. **Perceptions of Southern Illinois University-Edwardsville Advanced Pharmacy Practice Experiential Students on Providing Clinical Services in Community Pharmacy**
    Frances Huntley Schneider, Pharm.D. Candidate  
    Mentor: Amanda Findall, Pharm.D.  
    Walgreens Pharmacy, Ferguson, Missouri

13. **Determining the Level of Adrenal Fatigue Experienced by Students at SIUE School of Pharmacy**
    Heidi Imhoff, Pharm.D. Candidate  
    Mentor: Beaux Cole, Pharm.D.  
    Medicine Shoppe, Springfield, Illinois
14. The Impact of OCPD Symptoms on Daily Functioning Among Pharmacists  
Laura Jeffers, Pharm.D. Candidate  
Mentor: Kelly Gable, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

15. Barriers to Implementing Medication Therapy Management (MTM) in the Community Setting  
Anton Kalna, Pharm.D. Candidate  
Mentor: Amanda Baumann, Pharm.D.  
Walgreens Pharmacy, High Ridge, Missouri

16. Students’ Perception of the Flipped Classroom in the Ambulatory Care Elective  
John Kinscherff, Pharm. D. Candidate  
Mentor: Stacey Thacker, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

17. The Impact of a Diabetes Support/Exercise Group on Patients Living with Diabetes: A Patient Survey  
Ashley Kircher, Pharm.D. Candidate  
Mentor: Julia Schimmelpfennig, Pharm.D.  
St. Elizabeth’s Hospital, Belleville, Illinois

18. Effects of Freezing Fish Oil Capsules on Belching; A Randomized, Controlled, Cross-over Trial  
Kenneth Knutson, Pharm.D. Candidate  
Mentor: McKenzie Ferguson, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

19. Medication Adherence: Effect of Cost on Medication Adherence in Patients With Adequate Health Literacy and Ability to Pay  
Treven Kramer, Pharm.D. Candidate  
Mentor: David Hurley, R.Ph.  
Harrisburg Medical Center, Harrisburg, Illinois

20. Patient Education Video on “What is Chronic Pain?” Survey  
Joseph Lutterbie, Pharm.D. Candidate  
Mentor: Carrie Vogler, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

21. Healthcare Professionals’ Perceptions and Knowledge of Mental Illness and Terminology  
Danny Mai, Pharm.D. Candidate  
Mentor: Misty Gonzalez, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
22. **Pilot Study to Evaluate the Usefulness of MyRecoveryRx.com, a Reference Website for Healthcare Professionals to Determine Abuse Potential of Medications for Patients Recovering from Substance Abuse**
   Shannon Moore Hindahl, Pharm.D. Candidate
   Mentor: Lisa Lubsch, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
   SIUE Senior Showcase Presenter 2013

23. **Evaluation of Pharmacists’ Awareness and Self-Efficacy of Resources Available to Them for Spanish Speaking Patients**
   Morris Pearson, Jr., Pharm.D. Candidate
   Mentor: Radhika Devraj, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

24. **Patients’ Knowledge of Common Antihistamine and Pain Reliever Over-the-Counter Medications**
   Sarah Repking, Pharm.D. Candidate
   Mentor: Kim Yager, R.Ph.
   Walgreens Pharmacy, Effingham, Illinois

25. **Evaluation of the State of Shared Governance Within Pharmacy Education in the Midwest United States**
   Abigail Ruyle Eilerman, Pharm.D. Candidate
   Mentors: Gireesh Gupchup, Ph.D., and Cassandra Maynard, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

26. **Assessing Empathy and Self-Efficacy Levels of Pharmacy Students Utilizing Progressive Case Simulations within a Diabetes Elective**
   Andrew Schwierjohn, Pharm.D. Candidate
   Mentor: Jessica Kerr, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
   SIUE Senior Showcase Presenter 2013

27. **Evaluation of Antibiotic Compliance in the Community Pharmacy Setting**
   Michael Sheppard, Pharm.D. Candidate
   Mentor: Shannon Buhmann, Pharm.D.
   Walgreens Pharmacy, Maryville, Illinois

28. **Prevalence of Health Care Disparities**
   Jessica Showen, Pharm.D. Candidate
   Mentor: Cathy Santanello, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

29. **“This Side of the Dirt”: A Program to Educate Teenagers About Drug Abuse and Addiction**
   Heather Small Schultz, Pharm.D. Candidate
   Mentor: Lisa Lubsch, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
30. **Assessing Student Learning of the Flipped Classroom in an Ambulatory Care Elective**
   Roxane Spann, Pharm.D. Candidate
   Mentor: Stacey Thacker, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

31. **Pharmacists’ Current Perspectives on Pharmacogenomics and Direct-to-Consumer Genetic Testing**
   Katherine Tate, Pharm.D. Candidate
   Mentor: Ronald Worthington, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

32. **Using a Closed Facebook Group as a Discussion Board in a Microbiology and Immunology Course in a School of Pharmacy Setting**
   Brian Todd, Pharm.D. Candidate
   Mentor: Cathy Santanello, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

33. **Parent and Caregiver Perceptions Related to the Use of Over-the-Counter Medications**
   Sarah Trombetta, Pharm.D. Candidate
   Mentor: Miranda Wilhelm, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

34. **The Impact of Pain Control Interventions Used During the Intrapartum Period and Parturition on Postpartum Pain Outcomes: A Survey Based Research Project**
   Tiffany Troutman Grzegorzewski, Pharm.D. Candidate
   Mentors: Erik Cornett, R.Ph. and Dr. Scott Joyner DO, OB/GYN
   Natural Medicine Apothecary, Herrin, Illinois

35. **Barriers that Prevent Adults from Being Immunized**
   Jessica Turner, Pharm.D. Candidate
   Mentor: Jason Waggoner, R.Ph.
   CVS Pharmacy, Matton, Illinois

36. **Evaluation of Interprofessional Ethics Seminar with Pharmacy and Dental Students**
   Sarah Wagner, Pharm.D. Candidate
   Mentor: Terri Poirier, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

37. **Evaluation of Mental Health Treatment Perspectives and Stigmas in the Rural Midwest**
   Chris Walters, Pharm.D. Candidate
   Mentor: Kelly Gable, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

38. **SIUe Pharmacy Students’ Perception on their Preparedness for APPE Rotations**
   Lynsey Yording, Pharm.D. Candidate
   Mentor: Stacey Thacker, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
39. Development, Implementation, and Evaluation of a Supermarket Nutrition Tour Facilitated by Community Pharmacists
Katelynn Zumwalt, Pharm.D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Retrospective Chart Reviews, Drug Utilization Review, Review of Guidelines, etc

1. Evaluation of Fentanyl Transdermal Transport System Prescribing Patterns at a Teaching Hospital
Annamaria Balagyan, Pharm.D. Candidate
Mentor: Jennifer Arnoldi, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. Assessment of Sedation in Mechanically Ventilated Patients in a Medical Intensive Care Unit
Kristin Courtright, Pharm.D. Candidate
Mentor: Katie Ronald, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

3. Platelet Recovery in Hospitalized Patients with Thrombocytopenia after Changing beta-lactam Therapy
Katelyn Daniels, Pharm.D. Candidate
Mentors: Scott Bergman, Pharm.D., Julie Podlasek, Pharm.D., Shingo Chihara, M.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Memorial Medical Center, Springfield, Illinois
Honorable Mention – SIUE School of Pharmacy Poster Day 2013

4. Ibuprofen Arginine for the Treatment of Patent Ductus Arteriosus: Safety and Efficacy Analysis
Saima Farooqui, Pharm.D. Candidate
Mentor: Kelly Burch, Pharm.D.
Mercy Hospital, St. Louis, Missouri

5. An Evaluation of Hyperglycemia During Induction Therapy in Treatment of Acute Lymphoblastic Leukemia
Brice Foose, Pharm.D. Candidate
Mentors: Miranda Nelson, Pharm.D., Rachel Langley, Pharm.D., Chris McPherson, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
St. Louis Children’s Hospital, St. Louis, Missouri

6. Analysis of the Follow-up and Treatment of Vitamin D Deficient Patients
Steven Gibson, Pharm.D. Candidate
Mentor: Jennifer Rosselli, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
7. **Evaluation of the Use of Ondansetron 32 mg Single Intravenous Dose in Hospitalized Patients at a Community Teaching Hospital**
   Laura Gleason, Pharm.D. Candidate
   Mentor: Keith Hecht, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

8. **An Evaluation of Acid Suppression Therapy Utilization in a Teaching Hospital**
   LeeAnn Hart, Pharm.D. Candidate
   Mentor: Cassandra Maynard, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

9. **High Dose Ceftazidime for Patients with Cystic Fibrosis: A Retrospective Chart Review**
   Brooke Hasquin, Pharm.D. Candidate
   Mentor: Lisa Lubsch, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

10. **Evaluation of Stress Ulcer Prophylaxis Appropriateness Before and After Staff Education in the Intensive Care Unit**
    Christina Hayes, Pharm.D. Candidate
    Mentor: Michelle Schymik, Pharm.D.
    Deaconess Health System, Evansville, Indiana

11. **Inappropriate Medication Use By Community Dwelling Elders in Southern Illinois**
    Erhardt Heisner, Pharm.D. Candidate
    Mentor: Chris Herndon, Pharm.D.
    Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

12. **A Retrospective Chart Review of Methicillin-resistant Staphylococcus Aureus Treatment in a Rural Hospital**
    Kyle Ingram, Pharm.D. Candidate
    Mentor: Matt Clifton, Pharm.D.
    Sarah Bush Lincoln Health Center, Mattoon, Illinois

13. **Investigation of a Relationship Between Pharmacy Student Didactic Academic Achievement and Performance on Advanced Pharmacy Practice Experiences**
    Sal Khondaker, Pharm.D. Candidate
    Mentor: Erin Timpe Behnen, Pharm.D.
    Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

14. **Analysis of Adherence to ADA Standards of Care**
    Christina Ley, Pharm.D. Candidate
    Mentor: Jennifer Rosselli, Pharm.D.
    Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
    SIUE Senior Showcase Presenter 2013
15. *Time to Therapeutic INR: A Comparison of Physician to Pharmacist Warfarin Management*
Jessica Luebshaw, Pharm.D. Candidate
Mentor: Elizabeth Harthan, Pharm.D.
OSF St. Francis Medical Center, Peoria, Illinois

16. *Association of Adverse Drug Events and Selected Hospital Outcomes in Patients Aged 65 and Older*
Adam Lux, Pharm.D. Candidate
Mentors: J. Mark Ruscin, Pharm.D., Steve Verhulst, Ph.D. and Steve Scaife, M.S.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Southern Illinois University, School of Medicine, Springfield, Illinois
SIUE Senior Showcase Presenter 2013

17. *Accuracy of Allergies within the Electronic Health Record of a Tertiary Care Hospital*
David Oxencis, Pharm.D. Candidate
Mentor: Alisa Groesch, Pharm.D.
Memorial Medical Center, Springfield, Illinois

18. *Establishing a Baseline Measurement of Medication Errors during the Medication Reconciliation Process at a Southern Illinois Veteran Affairs Hospital*
Ronnie Ray, Pharm.D. Candidate
Mentor: Eric Gibbs, Pharm.D.
Veterans Affairs Medical Center, Marion, Illinois

19. *Improving MTM in Community Pharmacies: A Study on Techniques Used to Improve Usage of MTM in Community Pharmacies*
Brian Russell, Pharm.D. Candidate
Mentor: Lance Lomax, R.Ph.
Walgreens Pharmacy, St. Louis, Missouri

20. *Impact of Pharmacist Intervention on 30 Day Readmission Rates*
Derek Smith, Pharm.D. Candidate
Mentors: J. Mark Ruscin, Pharm.D., Steve Verhulst, Ph.D. and Steve Scaife, M.S.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Southern Illinois University, School of Medicine, Springfield, Illinois

21. *Fluoroquinolone Cross-resistance of Pseudomonas aeruginosa*
Britany Walls, Pharm.D. Candidate
Mentor: Katie Ronald, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

22. *A Retrospective Evaluation of Gentamicin Use in the Neonatal Intensive Care Unit*
Doug Wilson, Pharm.D. Candidate
Mentor: Jerry Krausz, R.Ph.
SSM Cardinal Glennon Children’s Medical Center, St. Louis, Missouri
23. **Retrospective Evaluation Identifying Inappropriately Formulated Medications in Patients Prior to Roux-en-Y Gastric Bypass Surgery**
Ian Wilson, Pharm.D. Candidate
Mentor: Michael Short, Pharm. D.
Memorial Medical Center, Springfield, Illinois

**Other**

1. **Induced Pluripotent Stem Cells: Science or Science Fiction**
Christopher Anderson, Pharm.D. Candidate
Mentor: Ronald Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. **Improving Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Scores with Nursing Electronic Alerts**
Jena Cummins, Pharm.D. Candidate
Mentors: Joshua Schmees, Pharm.D.
St. Elizabeth’s Hospital, Belleville, Illinois

3. **Creation of Lab Video Modules for Use in a Self-Care Required Course**
Michael Heeter, Pharm.D. Candidate
Mentor: Jessica Kerr, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

4. **Genetic Analysis of Disease Risk in a Patient with Barrett’s Esophagus Intestinal Metaplasia**
Han Luu, Pharm.D. Candidate
Mentor: Ronald E. Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

5. **Standardized Patient Evaluation of Student Blood Pressure Technique**
Audrey Pruemer, Pharm.D. Candidate
Mentor: Carrie Vogler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

6. **Pharmacogenomics of Some of the Most Commonly Prescribed Drugs in the U.S.**
Maxwell Slazinik, Pharm.D. Candidate
Mentor: Ronald Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

7. **Design and Implementation of a Service Learning Course and Project: Vaccine Education**
Rachel Stansbergy, Pharm.D. Candidate
Mentor: Teri Kerr, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
   Tara Warren, Pharm.D. Candidate
   Mentor: Janice Frueh, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois