

## **Intersections: SOURCE Symposium & Poster Session 2007 Winners**

### **Natural Science Paper Competition**

- 1<sup>st</sup>: Anthony Noto; “Non-Invasive Imaging of Single Neuron Activity: A Simulation Study of Optical Scatter Through Neural Tissue.” *Mentor: Professor Hillel Chiel, Departments of Biology, Neurosciences, and Biomedical Engineering*
- 2<sup>nd</sup>: Michael Papernov; “Dopamine Influences Interactions between Coupled Neuronal Circuits.” *Mentor: Professor Debra Wood, Department of Biology*

### **Natural Sciences Poster Competition**

- 1<sup>st</sup> (tie): Preethi Mani, “Wnt Signal Transduction in Craniofacial Dermal Development.”  
*Mentor: Professor Radhika Atit, Departments of Biology and Genetics*
- 1<sup>st</sup> (tie): Matthew Whilden, “Imaging Using High T<sub>c</sub> Magnetic Susceptometry.” *Mentor: Professor David Farrell, Department of Physics*
- 2<sup>nd</sup> (tie): Thomas Boatwright, “Characterization of Multilayer Polymer Lasers.” *Mentor: Professor Kenneth Singer, Department of Physics*
- 2<sup>nd</sup> (tie): Sheeba Joseph, “Photodynamic Therapy and the Autophagic Pathway in MCF-7 Human Breast Cancer Cells.” *Mentor: Liang-Yan Xue, Department of Biochemistry; Faculty Supervisor: Professor Nancy L. Oleinick Department of Biochemistry*

### **Humanities**

- 1<sup>st</sup>: Joseph Smetona, “Concerning the Proper Role of Philosophy and the Nature of Belief in the Christian Tradition with Inspiration from Augustine.” *Mentor: Professor Chin-Tai Kim, Department of Philosophy*

### **Social Sciences**

- 1<sup>st</sup>: Sandhya Ravichandran, “Medical Anthropology in Cochabamba, Bolivia.” *Mentor: Professor Katia Almeida, Department of Anthropology*
- 2<sup>nd</sup> (tie): Dokyoung Sophia You, “Parent and Child Agreement for Child’s Posttraumatic Stress Disorders Symptoms.” *Mentor: Dr. Lisa R. Stines, Department of Psychiatry; Faculty Sponsor: Professor Norah C. Feeny, Department of Psychology*
- 2<sup>nd</sup> (tie): Elyse Moretti, “Unexpected Language Learning.” *Mentor: Lee Thompson, Department of Psychology*

### **Engineering**

- 1<sup>st</sup> (tie): Matthew Hagy, “Simulation of Ligand-Receptor Biorecognition Events in Nanoparticle Drug Delivery.” *Mentor: Professor Elena E. Dormidontova, Department of Macromolecular Science and Engineering*
- 1<sup>st</sup> (tie): Michael Stetner, “Evaluating Synchrony Between Neurons as a Signal for Brain-Computer Interfaces.” *Mentor: Professor Dawn Taylor, Department of Biomedical Engineering*
- 2<sup>nd</sup>: Kevin Lamison, “The Effect of Molecular Weight in Poly(vinyl Alcohol) Clay Aerogel Composites.” *Mentor: Professor David Schiraldi, Macromolecular Science and Engineering*

### **Nursing**

- 1<sup>st</sup>: Margaret Mills and Caroline Fitzgerald, “A Breast Health Education Intervention for Cleveland’s Urban African American Women.” *Mentor: Professor Patricia Higgins, Frances Payne Bolton School of Nursing*
- 2<sup>nd</sup>: Caroline A. Fitzgerald and Margaret Mills, “Complementary Therapy Use and Quality of Life in Newly Diagnosed Adult Cancer Patients.” *Mentor: Professor Barbara J. Daly, Frances Payne Bolton School of Nursing*