Undergraduate Research at IU South Bend – 2007

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IU South Bend students, mentored by faculty members, co-authored papers, presented papers at or took part in professional conferences during 2007. These included:

Spring 2007

Papers Presented
Making Literature Undergraduate Literature and Writing Conference, at Taylor University, February (Upland, IN)
• Talia Reed, editor of the IU South Bend publication Analecta, presented on her experience as editor of a literary journal. Her presentation, titled, “Promotion,” was part of a panel on “Editing Undergraduate Literary Magazines.” She was mentored by Kelcey Parker (English).
• Another IU South Bend student, Vince Bauters, gave a poetry reading at the conference.

Midwest Ecology and Evolution Conference, Spring March (Kent, OH).
• Britnie Foutch (mentored by Andrew Schnabel, Biology) presented the results of her work at the Midwest Ecology and Evolution Conference in Kent, OH. [Citation: Foutch BR, Ruiz-Guajardo JC, Otero-Arnaiz A, Stone G, Schnabel A. “Evidence for delayed autonomous self-fertilization in Hibiscus aponeurus from Laikipia, Kenya.”] Additionally, Britnie was one of approximately 80 students nationwide selected to present her research results at the “Posters on the Hill” event in Washington, DC, sponsored by the Council on Undergraduate Research. Unfortunately, the event was held during our final week of classes, so she was unable to attend.

2007 Midwest Student Sociology Conference at Wright State University, March (Dayton, OH). (Mentor, Gail McGuire, Sociology):
• Tara Poe, “Children in Self-Care: The Factors That Affect Children Staying Home Alone”
• Ashley Brunt, “Factors That Affect Binge Drinking in College Students”
• Justin Gish, “The Crusade Against Same-Sex Marriage”
• Alison Rose Moss, “Controlling Images of Black Men”
• Emily Timmins, “The Physical, Emotional, and Mental Effects of Pet Ownership”
• Faith Ann Stefaniak, “Poverty in America: Who Are the Compassionate?”
• Nydia N. Karkiewicz, “Social Attitudes on Suicide”
• Erin Tracey, “Women in the Legal Profession: Barriers and Opportunities”
• Deebra Jones, “The Feminization of Poverty: The Effects of Poverty on Women and their Children”
16th Annual Undergraduate Conference on English Language and Literature at University of St. Francis, March 16-17 (Joliet, IL). Terri Vega (mentored by Karen Gindele, English) SMART grant funding to present her paper “The Raising of Lizzie Hexam” [Paper developed from one written for the senior seminar (L450) taken in the fall of 2006.]


All-IU Women’s Studies Undergraduate Research Conference, “Celebrating Our Students,” at IPFW, April (Ft. Wayne, IN).

- Cristy Cummings. “Superheroes and Sexuality: A Critical Analysis of Lesbian Representations in Modern Mainstream Comic Books.” (mentor, April Lidinsky, Women’s Studies)
- Erica Garrett. “Birth Day.” (mentor, April Lidinsky, Women’s Studies)
- Angelica Healy. “A-List Issues.” (mentor, April Lidinsky, Women’s Studies)
- Kelly Hunt. “Nancy Drew and the Case of the Mysterious Gender Roles.” (mentor, April Lidinsky, Women’s Studies)
- Carey Major. “Relatedness and ‘Six Little Cooks’: Please Tell Me Where I Belong So I Know How to Act – An Analysis of an 1877 Domestic Manual.” (mentor, April Lidinsky, Women’s Studies)
- Alison Moss. “Gender Stereotyping on the Oxygen Network.” (mentor, April Lidinsky, Women’s Studies)
- Megan Smith. “Sizing Her Up: Do Tall Women Get the Short End of the Stick?” (mentor, April Lidinsky, Women’s Studies)

Purdue University Calumet 15th annual C.S. Stacy Undergraduate Research Conference, April (Calumet, IN). Five history majors presented papers. Lisa Zwicker (History) mentored all of the students (“*” indicates that the student’s paper was published in the conference Proceedings):

- Erin Daren, “Irish Ballads, Monuments, and Commemorations of the 1798 Rebellion”
- Anny Gouin, “Medieval Love and Gender in the Lives of Heloise and Abelard”
- Tara Gulstrom, “Hitler’s Death: A Clash of Theories”*
- Sara Lowe, “A Pain That Cannot Forget: Life Examples of an Activist”*
American Association of Suicidology 40th annual conference, April (New Orleans, LA).
• Erin Ward was co-author of 2 presented papers: (1) Erin Ward and John L. McIntosh (Psychology, mentor). “Attitudes and Suicide: Therapists and Clients,” and (2) Erin Ward and John L. McIntosh (Psychology, mentor). “Attitudes Toward Therapists With Patient Suicides.” The papers were based on Erin’s Honors Thesis research project.

Midwest Political Science Association, April (Chicago, IL).
• Colin Flora, wrote and presented a paper with David Parker (Political Science, mentor) titled “BRAC Attack: Delegation, Politics, and the Closing of Military Bases.”

Midwest Model European Union, April (Indianapolis, IN).
• With the SMART Travel Grant listed below for Neovi Karakatsanis (Political Science), 8 IU South Bend students traveled to Indianapolis April 19-21 for the Midwest Model European Union, attended by approximately 160 students from throughout Indiana, Iowa, Michigan and Missouri to represent 22 of the 27 member states of the EU. The IUSB team received a 3rd place award for its work. Three students received individual recognition: Kim Muncie (Public Affairs major) placed 2nd as Economics Minister; Summers Hathaway (Political Science) took 3rd place as Agriculture Minister; and Heather Scholine (Education) placed 3rd as EU Commissioner of Consumer Protection. The other members of the IUSB team included Thomas Njuguna (Political Science), Andrea Pauwels (Political Science), Colin Flora (Political Science), Allison Dowell (Political Science) and Anthony Fanno (Business).

21st National Conference on Undergraduate Research, at Dominican University of California, April (San Rafael, CA).
• Noah Cooper (mentored by Rolf Schimmrigk, Physics) gave a talk at the recent 21st National Conference on Undergraduate Research at the Dominican University of California, San Rafael, CA, in April.

Joint Conference on Microscopy, April (Indianapolis, IN).
• Robert Pope (Biology, mentor): Paul Mantz and Ryan Baurnfeind presented a poster and Arie Trouw went along to attend the educational seminars.


Undergraduate Student Research and Paper Day, co-sponsored by the St. Joseph Valley section of the American Chemical Society (ACS) and the College of Science, at the University of Notre Dame, May (Notre Dame, IN)
• Shannon Renfrow presented a paper titled “Wilson’s Disease and the Role of ATP7B in Copper Metabolism.” Her paper was judged the best of the entire conference, receiving one of the two ACS awards for best paper (mentor, Gretchen Anderson, Chemistry). Her paper was a literature review and it represents the first time that a literature review was selected as the best paper of the conference.
General Meeting of American Society for Microbiology, May (Toronto, Canada). Yilei Qian (Biology, mentor), Bryanne Baker, and T. Jodway. “Cloning and Expression of a Bifunctional Glucosidase/Xylosidase from Bifidobacterium scardovii.”


Botanical Society of America annual meeting, July (Chicago, IL).

- Britnie Foutch (mentored by Andrew Schnabel, Biology) presented the results of research in Africa she conducted on pollination biology with Dr. Schnabel. Citation: Foutch BR, Otero-Arnaiz A, Ruiz-Guajardo JC, Schnabel A. "Does presence of staminodes affect insect visitation to Commelina reptans?"

Ecological Society of America annual meeting, August (San Jose, CA).

- Stuart Orr (mentored by Deborah Marr and Andrew Schnabel, Biology) assisted on investigations into the success of prairie restorations at The Nature Conservancy’s Kankakee Sands Macrosite. Citation: Marr D, Schnabel A, Orr S. "How closely do restored prairies mimic community composition of remnant prairies?"

American Sociological Association annual meeting, August (New York City, NY). Two IU South Bend students were selected in a competitive process with other undergraduates from across the country for a position in this prestigious program called the ASA Honors Program. Along with other exceptional sociology students from University of California-Berkeley, Yale, Wellesley, Rutgers, and the University of Michigan, Alison Moss and Erin Tracey presented their research at the discipline’s annual professional meeting.

- Erin Tracey (mentored by Gail McGuire, Sociology & Anthropology), "Women in the Legal Profession: Barriers and Opportunities"
- Alison Moss (mentored by Betsy Lucal, Sociology & Anthropology), “Controlling Images of Black Men”

Course-Based Student Research with Public Presentation
Public Poster Session for individual student research projects for P429 Advanced Laboratory in Developmental Psychology, April, IU South Bend, Wiekamp Hall (projects directed by Carolyn Schult, Psychology); pictures of the individual student projects may be found at the link: http://www.iusb.edu/~sbpsy/PostersSpr07.html

- Students: Tim Bauer, Bonnie Benjamin, Alphonso Braggs, Alissa Brill, Mandi Brouillette, LaTasha Butcher, Cynthia Casper, Rachel Franks, Karen Harness, Sarah Heintzelman, Kathleen Herceg, Sarah Elizabeth King, Jennifer Krewson, Erin Lynch, Ashley McGinnis, Stephanie Myers, Casey Pontius, Krisha Senetar, Elizabeth Silvens, and Leah Weaver.
Public Session at which individual students presented their honors thesis research projects, April, IU South Bend, (honors director, Frank Fujita; projects directed by faculty across the campus).

- Lance Morris, “Building a Brighter Future Through the Web: Developing a Resource Website for Aspiring Entrepreneurs”
- Jared Ewald, “Fuzzy Logic for a Fuzzy World”
- Michael Zeiger, “The Hero and Morality: A Thematic Investigation with a Brief Study of George Lucas’ Star Wars Saga”
- Sara Galbreath, “Attitude is Everything: How Sixth Grade Students Perceive Computers in the Classroom”
- Angela Hedman, “Predictive Genetic Testing: The Need for a Collaborative Effort”
- Aliina Kuismi, “U.S. Foreign Policy in the Cold War: Guatemala and Nicaragua”
- Erin Ward, “Attitudes Toward Therapists Who Lose Patients to Suicide” (presented 2 papers based on parts of the honors thesis at the professional meeting of the American Association of Suicidology, April – see listing above)
- Maria Nakis, “Cameras in the Courtroom”: Real Cases, Real Judges, Real Justice?” (presented in August)

Publications


Publication Co-Author: Marmorino, Matthew (Chemistry, mentor) with Ryan W. Bauernfeind. 2007 Approximate lower bounds of the Weinstein and Temple variety. International Journal of Quantum Chemistry, Vol. 107, pp. 1405-1414 (Bauernfeind was an undergraduate researcher supported by a SMART grant from IUSB)


Publication: Faculty Mentor, Kelcey Parker (English). Four students from fall 2006 had class work selected for publication in the 2007 issue (Vol. 37) of Analecta. (Joshua Leuthold [“Cre(m)ation,” p. 68] and Joe Borkowski [“Playing with Fire,” pp. 90-94] from W301 in fiction; Robert White [“The Mastery of Words,” pp. 32-33] from independent study in fiction; Jillian Guzicki [“Some Day He Will,” pp. 87-89] from Writing Women’s Lives in creative nonfiction.)

**Fall 2007**

**Papers Presented**

Indiana Academy of Science 123rd Annual Meeting, University of Indianapolis, October 25-26 (Indianapolis, Indiana). Jay VanderVeen (Sociology & Anthropology. mentor) and Darryl R. Ricketts. “New Perspectives on Pottery Style Distribution at La Isabela, Dominican Republic.”

13th annual Indiana University Undergraduate Research Conference, “Making Research Relevant,” at IU Southeast, November (New Albany, IN)

- **Brice Petgen,** “The Pop Music Effect: Does Popular Music Increase Scores on Spatial Relations Tasks?” mentor Dennis Rodriguez (Psychology)
- **Elizabeth Silveus,** “Stressors and Their Effects at Particular Times of Emerging Adulthood,” mentor Carolyn Schult (Psychology)
4th Annual College of Arts and Sciences Campus-Wide Research Conference, “Standing on the Shoulders of Giants: A Celebration of Research in Arts and Sciences,” at IU Northwest, November (Gary, IN)
• Matt Miles, “Dissecting the 'Gaudy Tulip' in Swift's The Lady's Dressing Room,” mentor Lee Kahan (English)
• Gregory Warrell, “A Mass Detector to be Used in the St. George Recoil Mass Separator,” mentor Jerry Hinnefeld (Physics)
• Noah Cooper, “Cosmological Tunneling,” mentor Rolf Schimmrigk (Physics)
• Savan Kharel, “Emergent Spacetime in String Theory,” mentor Rolf Schimmrigk (Physics)

• Nana Boateng, “Elasticity in the Fe-P System: In Situ X-Ray Diffraction Studies at High Pressures,” mentor Henry Scott (Physics)


Fall Meeting of the American Geophysical Union, December (San Francisco, CA)
• Nana Boateng was co-author of a presented paper: Henry P. Scott (Physics, mentor), Nana Boateng, Mark R. Frank, and Yue Meng, “High-Pressure Stability and Equations of State in the Fe-P System: Implications for Iron Meteorites and Planetary Cores.”

Course-Based Student Research with Public Presentation
Public Poster Session for individual student research projects for P435 Advanced Laboratory in Human Learning and Cognition (projects directed by Dennis Rodriguez, Psychology) and P421 Advanced Laboratory in Social Psychology (projects directed by Catherine Borshuk, Psychology), December, IU South Bend, Wiekamp Hall; pictures of the individual student projects may be found at the link: http://www.iusb.edu/~sbpsy/PostersFall2007.html
• P435 Students: Jeff Brooks, Cassandra Davis, Rachel Kohler, Flora Makene, Brice Petgen, and Hanah Tepe.
• P421 Students: Erin Bianchi, Abbey Freeman, Joyce Gathu, Sheila Miller, Mary Reynolds, Mikki Sanders, Ashley Schrock, and Heather Vigil.
SMART Awards

Spring 2007
SMART Awards (Student/Mentor Academic Research Teams) were received by:

- Deborah Baker (mentor, Yilei Qian, Biology)
- Chris Bontrager (mentor, James VanderVeen, Sociology)
- Daniel Brooks (mentor, Alan Gift, Chemistry)
- Jeff Brooks (mentor, Michelle Verges, Psychology)
- Ashley Brunt (mentor, Gail McGuire, Sociology)
- Colin Flora (mentor, David Parker, Political Science)
- Britnie Foutch (mentor, Andrew Schnabel, Biology)
- Charles Guse (mentor, James Wolfer, Computer Science/Informatics)
- Sabrina Huggins (mentor, Henry Scott, Physics)
- Kristin Cravens Hutton (mentor, April Lidinsky, Women’s Studies)
- Alison Moss (mentor Betsy Lucal, Sociology)
- Erin Tracey (2 awards, mentors, Gail McGuire and Betsy Lucal, Sociology)
- Teresa Vega (mentor, Karen Gindele, English)
- Neovi Karakatsanis (Political Science) received a SMART Travel Grant to support students for the Model European Union Simulation 2007

Fall 2007
SMART Awards (Student/Mentor Academic Research Teams) were received by:

- Nana Boateng (mentor, Henry Scott, Physics)
- Sandra Kentner (mentor, Henry Scott, Physics)
- Darryl Ricketts (mentor, James VanderVeen, Sociology)
- Elizabeth Silveus (mentor, Dennis Rodriguez, Psychology)