

**PROFESSIONAL EXPERIENCE**

Program Officer, Division of Undergraduate Education, 2020-present

Profess of Biology, Florida Southern College 2012- present.

Associate Provost of Experiential Education, Florida Southern College, 2012- 2020

Director, The Office of Undergraduate Research (OUR), The University of North Carolina at Greensboro, 2006-2012

Director, Center for Undergraduate Research, Xavier University of Louisiana, 2004-2006

Associate Professor, Department of Biology, Coastal Carolina University, 1999-2004

Assistant Professor, Department of Biology, Coastal Carolina University, 1994-1999

**NATIONAL LEADERSHIP**

President, Council of Undergraduate Research, 2012-2013

**EDUCATION**

Ph.D. 1994 Biology; Northern Illinois University, DeKalb, Illinois

M.S. 1990 Biology, Northern Illinois University, DeKalb, Illinois

B.S. 1987 Biology, Eureka College, Eureka, Illinois

**EXTRAMURAL GRANTS**

2012-2018 IOS BP: Integrating and Leveraging IOS Networks to Facilitate the Development of URM in IOS Career Paths, \$533,918 (PI, Co-PIs Medeva Ghee, Brooke Bruthers, Elizabeth Ambos), National Science Foundation

2010-2013 International: Summer Research Experiences in the United Kingdom, \$149,841 (PI Terry Nile, Co-PIs Mary Crowe, Penelope Pynes, Jerry Pubanz), National Science Foundation

2011-2012 NCBC 2011 Undergraduate Research Fellows \$10,500 (PI, Co-PIs Vince Heinrich and Parke Rublee), North Carolina Biotechnical Center

2010-2011 NCBC 2010 Undergraduate Research Fellow, \$5,000 (PI, Co-PI Norman Chiu), North Carolina Biotechnical Center

2009-2012 Interdisciplinary Quantitative Science REU Site at UNCG, \$180,000 (PI, Co-PI Jan Rychtar), National Science Foundation

2009-2012 UBM Group: Mathematical and Biological Undergraduate Research Training at UNCG, \$233,820 (PI Jan Rychtar, co-PIs Mary Crowe, Maya Chhetri, Sat Gupta, David Remington and Olav Rueppell), National Science Foundation

2009-2010 Undergraduate Biotechnology Research Fellowship Program, \$5,000 (PI, Co-PI Paul Steimle), North Carolina Biotechnological Center

2008-2009 Natural Chemistry Undergraduate Researchers \$13,500 (PI, Co-PI Nadja Cech), North Carolina Biotechnological Center

2007 Third Annual State of North Carolina Research and Creativity Symposium \$1,000 (PI), North Carolina Biotechnological Center

2006-2010 Using electronic portfolios to assess student learning as a result of undergraduate research \$435,000 (PI Kathryn Wilson, Co-PIs Mary Crowe, Sharon Hamilton and

- Anthony Stamatoplos), Indiana University Purdue University Indianapolis, National Science Foundation
- 2006-2010 UBM/RUI: Using Collaborative Undergraduate Research to Train Students in Mathematics and Biology at The University of North Carolina at Greensboro \$239,835 (PI Jan Rychtar, co-PIs Mary Crowe, Maya Chhetri, David Remington and Olav Rueppell), National Science Foundation
- 2005 Planning and Funding Successful Science Research Programs at Historically Black Colleges and Universities, \$25,000(PI Nancy Hensel, Council of Undergraduate Research), private foundation
- 2004 Developing a network of CUR directors, Project Kaleidoscope, \$5,000
- 2004 New Orleans higher institution of learning grant writing workshop, LAEPSCoR \$5,500
- 2002 Characterizing the thermal ecology of fiddler crabs (co-PI's Helmuth, B., Brodie, R.) SC EpScor \$25,000
- 2001 Determining the thermal conditions experienced by solitary and droving sand fiddler crabs *Uca pugilator*. NSF-ROA supplement with co-PI Brian Helmuth, \$15,000
- 1997-2000: Jump for the Sun II: A Collaborative Research Project to Encourage Girls and Women in Science and Math, \$899,918 (co-PI: Sally Hare) National Science Foundation.
- 1995-1997: Jump for the Sun: a project to encourage girls and women in science, \$99,998 (co-PI: Sally Hare) National Science Foundation
- 1995 Jump for the Sun; AAUW Community Action Grant, \$3,505
- 1994: Sigma XI, grant-in-aid of research \$1200

**PUBLICATIONS** (*undergraduate student in italics*)

40. Crowe, M., Fletcher-Harding, S. and Gibbs, M.B. 2020. Flip the Switch: Illuminating the Existence of Creativity and Research in All Disciplines. *Scholarship and Practice of Undergraduate Research* 3(4): 70-75.
39. Crowe, M. and Brakke, D. 2019. Assessing Undergraduate Research Experiences: An Annotative Bibliography. *Scholarship and Practice of Undergraduate Research* 3(2): 21-30.
38. Crowe, M. and Guerrant, B. (editors) 2018. *Voices on the Verge: Mentoring Through Transitions*. Council of Undergraduate Research, Washington, D.C.
37. Crowe, M., Rychtar, J., Rueppell, O., Chhetri, M., Remington, D. and Gupta, S. 2013. Proving the "proof"- interdisciplinary undergraduate research positively impacts students, pp25-30. *Topics from the 8<sup>th</sup> Annual UNCG Regional Mathematics and Statistics Conference, Springer Proceedings in Mathematics and Statistics Series*
36. *Spears-Gill, T., Tuck, A., Gupta, S., Crowe, M. and Figueroa, J.* 2013. A field test of optional unrelated questions random response models: estimates of risky sexual behavior. Pp 135-145. *Topics from the 8<sup>th</sup> Annual UNCG Regional Mathematics and Statistics Conference, Springer Proceedings in Mathematics and Statistics Series*
35. Crowe, M., *Raspet, E.*, Rychtar, J. and Gupta, S. 2013. Effect of Density and Extra Dung on Brood Parasitism in the Dung Beetle, *Onthophagus taurus*. *Journal of Insect Behavior* 26(2): 253-259.

34. Gupta, S., Tuck, A., Spears, T. and Crowe, M. 2013. Optional unrelated-question randomized response models. *Involve* 6(4): 483-492.
33. Crowe, M. 2012. Evaluating Programmatic Offerings of UR Offices IN Undergraduate Research Offices and Programs: models and practices, Edited by Kinkead, J. and Blockus, L. CUR, Washington DC
32. Wilson, K. and Crowe, M. 2010. Undergraduate Research: A powerful pedagogy deserves and early start. **In:** Helping Sophomores Succeed: Understanding and improving the Second-Year Experience. Jossey-Bass National Resource Center
31. Broom, M., Crowe, M., Fitzgerald, M. and Rychtar, J. 2010. The stochastic modeling of kleptoparasitism using a Markov process. *Journal of Theoretical Biology* 264(2): 266-272.
30. Crowe, M., Stanford, D. and Shattell, M. 2010. Student and faculty perceptions of the National Conference of Undergraduate Research. *Council of Undergraduate Research (CUR) Quarterly on the Web*, 31(1) 14-17.
29. Brakke, D., Crowe, M. and Karukstis, K. 2009. Perspective: Some reasons why deans and provosts should value, support, and encourage undergraduate research, *Council of Undergraduate Research Quarterly* 30(1):10-14
28. Crowe, M., Fitzgerald, M., Remington, D. and Rychtar. 2009 Deterministic and stochastic models of kleptoparasitism, *Journal of Interdisciplinary Mathematics* 12: 161-180.
27. Wilson, K., Crowe, M., Singh, J., Stamatopolis, A., Rubens, E., Gosney, J., Dimaculangan, D., Levy, F., Zrull, M. and Pyles, R. 2009. Using Electronic Portfolios to Objectively Measure Student Gains from Mentored Research, *Council of Undergraduate Research Quarterly* 29(3):26-31
26. Crowe, M., Fitzgerald, M., Remington, D., Ruxton, G., Rychtar, J. 2008. Game Theoretic Model of Brood Parasitism in a dung beetle *Ontophagus taurus*, *Evolutionary Ecology* 23: 765-776
25. Crowe, M. and Brakke, D. 2008. Assessing the impact of undergraduate research experiences on students: an overview of current literature, *Council of Undergraduate Research Quarterly* 28 (4):43-50
24. Crowe, M. 2007. The Role of Campus-wide Undergraduate Research Centers in Supporting a Research Rich Curriculum. **In:** How to Design, implement, and sustain a research-supportive undergraduate curriculum. Council of Undergraduate Research, Washington, D.C.
23. Crowe, M. and Sienerth, K. 2006. Budgeting for a centralized office of undergraduate research, *Council of Undergraduate Research Quarterly* 27(2): 54-60.
22. Crowe, M. and Hill, C. 2006. Setting the stage for good group dynamics in semester long research projects, *Journal of College Science Teaching* 35(4): 32-35.
21. Crowe, M. 2006. Creative Scholarship through Undergraduate Research, *Peer Review* 8(1): 16-18.
20. Windsor, A., Crowe, M. and Bishop, J. 2005. Determination of temperature preference and the role of the enlarged cheliped in thermoregulation in male sand fiddler crabs, *Uca pugilator*. *Journal of Thermal Biology* 30(1) 37-41.
19. Crowe, M. and Mather, J. 2004. Careers in Animal Behavior, *Encyclopedia of Animal Behavior*, Greenwood Publishing, Westport, CT.

18. Crowe, M. 2004. Thermoregulation. *Encyclopedia of Animal Behavior*. Greenwood Publishing, Westport, CT.
17. Crowe, M. and Boston, K. 2004. Using animal burrows to integrate math and biology, *Science Activities* 40(4):34-38.
16. Crowe, M. and Burns, T. 2003. Science curriculum reform for education majors, *Academic Exchange Quarterly*, 7(4): 2541-3z.
15. Crowe, M. 2003. Investigating human mate choice using the want ads. In Ploger, B. and Yasukawa, Exploring Animal Behavior in laboratory and field: a hypothesis-testing approach to the development, causation, function and evolution of animal behavior. pp. 114-115. Academic Press, Boston, MA.
14. Windsor, A. and Crowe, M. 2003. Thermoregulatory behavior in fiddler crabs. Proceedings of the National Council of Undergraduate Research, April 2003
13. Crowe, M. 2003. Jump for the Sun II: can a monthly program change girls and women's attitudes about STEM? *Journal of Women and Minorities in Science and Engineering* 9: 325-332.
12. Luce, A. and Crowe, M. 2001. Invertebrate terrestrial diversity along a gravel road on Barrie Island, Ontario, Canada, *Great Lakes Entomologist* 34: 55-60.
11. Crowe, M. 2000. Review of Ecobeaker 2.0: Laboratory Guide and Manual by E. Meir. *Animal Behavior* 59: 661-662.
10. Crowe, M. 1999. The ecology of the Atlantic shorelines (book review), *Ecology* 80: 2128 - 2129.
9. King, B.H., Crowe, M.L. and Blackmore, M.D. 1998. Effects of leaf age on oviposition and on offspring fitness in the imported willow leaf beetle *Plagioderia versicolora* (Coleoptera: Chrysomelidae), *Journal of Insect Behavior* 11: 23-36.
8. Peaslee, J. and Crowe, M. 1997. The effect of human activity on ghost crab populations, Proceedings of the National Conference on Undergraduate Research, April 1997
7. Crowe, M.L. 1997. How to achieve gender equity in ecology classrooms. *Bulletin of the Ecological Society of America*, 78: 70-71.
6. Crowe, M.L. 1997. Must-have supplemental texts for introductory ecology, *Ecology* 78: 646.
5. Crowe, M.L. 1995. Mechanisms of reaggregation in imported willow leaf beetle larvae, *Animal Behaviour* 50: 259-266.
4. Crowe, M.L. 1995. Seasonal and group size effects on the fitness of imported willow leaf beetle larvae, *Ecological Entomology* 20: 27-32
3. King, B.H., Crowe, M.L., and Skinner, S.W. 1995. Effect of host density on offspring sex ratios and behavioral interactions between females in the parasitoid wasp *Nasonia vitripennis* (Hymenoptera: Pteromalidae), *Journal of Insect Behavior* 8: 89-102.
2. Crowe, M.L. and King, B.H. 1993. Differences in the proportion of women to men invited to give seminars. *Bulletin of the Ecological Society of America*, 74: 371-374.
1. Nicolaus, L.K., Crowe, M.L. and Lundquist, R. 1992. Oral estrogen retains potency as an aversion agent in eggs: implications to studies of community ecology and wildlife management, *Physiological Behavior*. 51: 1281-1284.

**PROFESSIONAL SEMINARS, PRESENTATIONS AND PANELS** (*undergraduate students in italics*)

- Singer, J. and Crowe, M. 2019. Evaluate UR: a new inclusive model for evaluating undergraduate research experiences. AACU/STEM Annual Meeting. Chicago, IL.
- Crowe, M. 2018 (panel member). Promoting Partnerships in Undergraduate Research: Transforming Barriers to Strengths. 11<sup>th</sup> Annual Florida Statewide Symposium Engagement in Undergraduate Research. Boca Raton, FL.
- Crowe, M. and Fletcher-Harding, S. 2018. Valuing Creativity, Research and Scholarship in All Disciplines. 11<sup>th</sup> Annual Florida Statewide Symposium Engagement in Undergraduate Research. Boca Raton, FL.
- Bachman, R., Crowe, M., Gourley, B., and Vinson, D. 2018. Integrating Research into a Class, a Curriculum and a Campus Culture. Council of Undergraduate Research, Washington, D.C. 6/18
- Crowe, M., Brakke, D. and Stocks, J. 2018. Broadening Participation: Lessons Learned from Institutional Teams. Council of Undergraduate Research, Washington, D.C. 6/18
- Crowe, M. 2018. CUR's Broadening Participation Institute: what works for Institutional Teams, 11<sup>th</sup> Annual Understanding Interventions, Baltimore, MD. 3/18
- Crowe, M. and Guerrant, B. 2018. Voices on the Verge: Mentoring Through Transitions. Council of Undergraduate Research, Washington, D.C.
- Crowe, M. 2016. Capitalizing on the Strengths of Academic Societies to Broaden Participation in STEM fields, Council of Undergraduate Research biannual meeting, Tampa, FL June
- Crowe, M., Serrano, S. and Bromfield-Lee, D. 2016. Helping students succeed in introductory STEM courses by improving quantitative skills. Gateway Course Experience Conference, Atlanta, GA.
- Crowe, M. 2015. Integrating and Leveraging IOS Networks to Facilitate the Development of URM in IOS Career Paths, PI meeting, Bethesda, MD September
- Invited, Developing a Shared Vision to Expand, Sustain and Connect Undergraduate Research and Practice, with Ambos, E. American Association of Colleges and Universities, Washington, DC 1/13
- Invited, Undergraduate Research, Institutional Transformation and Administrative Leadership: Effective Practices for Lasting Change with Brakke, D., Rivera, J. and Osborn, J. American Association of Colleges and Universities, Washington, DC 1/13
- Crowe, M. 2013. Characteristics of Excellence in Undergraduate Research: a Critical Issues Forum Discussion. American Association of State Colleges and Universities, Point Clear, AL
- Crowe, M., Campbell, W., Rivera, J., and Ambos, E. 2013. Developing a Shared Vision to Expand, Sustain, and Connect Undergraduate Research Culture and Practice: the Council on Undergraduate Research Strategic Pillars. American Association of Colleges and Universities, Atlanta, GA
- Crowe, M. and Benson, S. 2013. Spaces Matter: Assessing the Impact of Environments on Learning, Higher Education Teaching and Learning, Orlando, FL
- Invited, The Critical Importance of Undergraduate Research, 3<sup>rd</sup> Annual Invitational Symposium Capturing the Future through Applied Research, Johnson C. Smith University, Charlotte, NC 10/12

- Invited An Overview of the Assessment Practices of Undergraduate Research, University of Central Florida, Orlando, FL 10/12
- Invited, Developing an Assessment Plan for Undergraduate Research, University of Central Florida, Orlando, FL 10/12
- Invited Developing Undergraduate Research in the Humanities, On-line Undergraduate Research? - Opportunities for Development, Fort Hays State University, Hays, KS, 9/12
- Invited, Academically Engaged: Producing the Next Generation of Scientists; Jackson Day Lecture, Eureka College, Eureka, IL 3/12
- Crowe, M. Crowe, M. and Walczak, M. 2012. Spaces Matter: Assessing the Impact of Environment on Learning, AACU/PKAL, Kansas City, MO
- Crowe, M. 2012. Assessing the impact of space on undergraduate research, Council of Undergraduate Research, Biannual Meeting, Newark, NJ
- Invited, Empirical and Theoretical Investigations into the stealing behavior of a dung beetle, Delhi University, Delhi, India 12/11
- Invited, Creating and Maintaining an Interdisciplinary Research Program, Delhi University, Delhi, India 12/11
- Crowe, M. 2011. Integrating your research and scholarship into the classroom: tried and true methods for success. Lilly Conference on College and University Teaching, Greensboro, NC.
- Invited, The Interdisciplinary MathBio program at the University of North Carolina at Greensboro, India Agricultural Statistics Research Institute, Delhi, India 12/10
- Invited, Empirical and Theoretical Investigations into the Stealing Behavior of a Dung Beetle, University of North Carolina at Pembroke, Pembroke, NC March 2010
- Invited, Thinking toward the future: undergraduate research and other high impact practices, August State University, April 2010
- Invited, Empirical and Theoretical Investigations into the Kleptoparasitic Behavior of *Onthophagus taurus* High Point University, February 2010
- Crowe, M., Rychtar, J., Callaway, D, Raspert, E. and Rushing, S. 2010 Using biological data to modify a model of kleptoparasitic behavior in dung beetles, 19th International Conference of the Forum for Interdisciplinary Mathematics (FIM) on Interdisciplinary Mathematical and Statistical Techniques, Patna University, India
- Invited, National Trends in Undergraduate Research- Why the University of the South needs to be proactive, Sewanee, TN, October 2010
- Crowe, M. and Brakke, D. 2010. Assessing student -learning outcomes as a result of undergraduate research experiences, Association of Colleges and Universities, Creativity, Inquiry and Discovery, Undergraduate Research In and Across Disciplines, Durham, NC.
- Calloway, D., Rushing, S. Crowe, M. and Rychtar, J. 2010. Using biological data to modify a model of kleptoparasitic behavior in dung beetles. 2<sup>nd</sup> Annual Undergraduate Research Conference at the Interface of Biology and Mathematics NIMBioS, Knoxville, TN.*
- Rushing, S., Calloway, D., Crowe, M. and Rychtar, J. 2010 Field experiments to determine the time interval in which dung beetles could kleptoparasitize. 2<sup>nd</sup> Annual Undergraduate*

- Research Conference at the Interface of Biology and Mathematics NIMBioS, Knoxville, TN.
- Crowe, M., *Raspet, E. Rushing, S., and Rychtar, J.* 2010. How density affects brood ball kleptoparasitism in the dung beetle, *Onthophagus taurus*. 47<sup>th</sup> Annual Animal Behavior Society meeting, Williamsburg, VA
- Rushing, S., Crowe, M. and Rychtar, J.* 2010. Quantifying the timing behavior of kleptoparasitism of *Onthophagus taurus*. 47<sup>th</sup> Annual Animal Behavior Society meeting, Williamsburg, VA
- Crowe, M., and Hughes, C. 2010 Integrating Off Campus Students into Summer Research Programs, CUR National Meeting, Ogden, UT
- Crowe, M. 2010. Leveraging Externally Funded Interdisciplinary Programs to Build Others on Your Campus, CUR National Meeting, Ogden, UT
- Crowe, M. 2010. Fostering Interdisciplinary Research: Building a Strong Foundation (poster presentation), CUR National Meeting, Ogden, UT
- Bahls, P., Crowe, M., James, K. 2010. Sowing the Seeds: a panel discussion of REU directors. Mathematical Association of American, Southeastern Section, 89<sup>th</sup> Annual Meeting, Elon, NC
- Rushing, S.* (faculty mentor M. Crowe) 2010. How Field Conditions Influence Brood Ball Production by the Dung Beetle, *Onthophagus taurus* Beyond Bio 2010: Celebration and Opportunities, National Academies of Science, Washington, DC
- Rushing, S., Raspet, E., Crowe, M. and Rychtar, J.* 2010. How Field Conditions Influence Brood Ball Production by the Dung Beetle, *Onthophagus taurus* North Carolina Academy of Sciences, Greensboro, NC
- Raspet, E., Rushing, S., Crowe, M. and Rychtar, J.* 2010. Kleptoparasitism in *Onthophagus taurus*: the role of dung, density, and males. North Carolina Academy of Sciences, Greensboro, NC
- Invited, Why undergraduate research experiences are a high impact educational practice: a synopsis of the research, North Georgia State College and University, October 2009
- Invited, Building support for a campus-wide undergraduate research program, Augusta State University, April 2009
- Rushing, S., Raspet, E., Crowe, M. and Rychtar, J.* 2009. How Field Conditions Influence Brood Ball Production by the Dung Beetle, *Onthophagus taurus*. State of North Carolina Undergraduate Research and Creativity Symposium, Wilmington, NC
- Raspet, E., Rushing, S., Crowe, M. and Rychtar, J.* 2009. Kleptoparasitism in *Onthophagus taurus*: the role of dung, density and males. Entomological Society of America, Indianapolis, IN
- Rushing, S., Raspet, E., Crowe, M. and Rychtar, J.* 2009. How Field Conditions Influence Brood Ball Production by the Dung Beetle, *Onthophagus taurus*. 1<sup>st</sup> Annual Undergraduate Research Conference, NIMBIOS, Knoxville, TN
- Ridgwell, D., Crowe, M. and Lewis, L. 2009. Undergraduate Research: Meeting the Challenges, Council of Colleges of Arts and Sciences, Baltimore, MD
- Crowe, M., Rychtar, J., Chhetri, M., Gupta, S., Remington, D. and Rueppell, O. 2009. Working towards Integrating Teaching & Research in Quantitative Biology at the University of

- North Carolina at Greensboro; poster presentation, Vision and Change in undergraduate biology education, NSF/HHMI and AAAS meeting, Washington, D.C.
- Crowe, M. 2009. Building interdisciplinary and inter-institutional programs in support of undergraduate research experiences, Council of Undergraduate Research Dialogues, Washington, DC.
- Wilson, K., Gosney, J., Reubens, E., Singh, J., Stamatoplos, and Crowe, M. 2009. Using electronic portfolios to assess student learning in undergraduate research experiences, pre-institute workshop, The 2008 Assessment Institute, Indianapolis, IN.
- Crowe, M. 2008. The Unique Challenges Facing Faculty at HBCUs: How to Change Limitations into Opportunities, Council of Undergraduate Research National Conference, St. Joseph, MN
- Brakke, D. and Crowe, M. 2008. Outcomes for Student Learning from Undergraduate Research Experiences, American Association of Colleges and Universities, Washington, DC.
- Crowe, M. and Brakke, D. 2008. Outcomes for Student Learning from Undergraduate Research Experiences, Council of Undergraduate Research National Conference, St. Joseph, MN
- Fitzgerald, M., Crowe, M., Remington, D. and Rychtar, J. 2008. To steal or not to steal: Modeling kleptoparasitic behavior in the dung beetle *Onthophagus Taurus*, MAA meeting at Charleston, SC
- Yang, J., Crowe, M., Fitzgerald, M. and Rychtar, J. 2008. A stochastic model of kleptoparasitism, ISMT2008/FIM XVI, Memphis, TN
- Fitzgerald, M., Crowe, M., Rychtar, J. and Yang, J. 2008. Using empirical data to test the theoretical predictions of brood parasitism by *Onthophagus taurus*, 45th Annual Meeting of the Animal Behavior Society Snowbird, Utah
- Brakke, D. and Crowe, M. 2007. Assessing the impact of undergraduate research on student learning and campus culture. American Association of Colleges and Universities, Long Beach, CA.
- Invited, Experiential Learning, University of Colorado at Denver and Health Sciences Center 2007
- Invited, Identifying strategies to remove barriers to undergraduate research, Fisk University 2007
- Invited, Establishing a centralized office of undergraduate research, Albany State University 2007
- Sienerth, K. and Crowe, M. 2007. Budgeting for a centralized office of undergraduate research, American Association of Colleges and Universities, Long Beach, CA.
- Burke, M. and Crowe, M. 2007. Using electronic portfolios to assess student learning as a result of undergraduate research. North Carolina Association for Research in Education, Greensboro, NC
- Fitzgerald, M., Crowe, M., Remington, D. and Rychtar, J. 2007. Kleptoparasitism: Time is of the essence for *Onthophagus Taurus* - International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, NC
- Fitzgerald, M., Crowe, M., Remington, D., and Rychtar, J. 2007. When resources are scarce, pirates await. Mathematical Models in Evolution and Ecology, University of Sussex, UK
- Invited, Coordinating and promoting undergraduate research, University of Colorado at



- Denver and Health Sciences Center, 2006
- Crowe, M. and Zrull, M. 2006. Budgeting for an office of Undergraduate Research, Council of Undergraduate Research, DePauw, IN.
- Brakke, D. and Crowe, M. 2006. Measuring outcomes and success of undergraduate research programs, Council of Undergraduate Research, DePauw, IN.
- Crowe, M., Cavitt, J., Cooke, J. Dimaculanga, D. and Sienerth, K. 2006. Running an office of undergraduate research: summaries of budgetary and personnel structures of existing programs. National Conference of Undergraduate Research, Asheville, NC.
- Wilson, K. Crowe, M. Dimaculangan, D. and Zrull, M. 2006. An e-portfolio module to provide evidence of learning through undergraduate research, National Conference of Undergraduate Research, Asheville, NC.
- Crowe, M., Dimaculangan, D., Cavitt, J., Wilson, K. and Cook, J. 2005. Network of Directors of Undergraduate Research Experiences, National Conference of Undergraduate Research, Lexington, KY.
- Windsor, A. and Crowe, M. 2003. Thermoregulatory behavior in fiddler crabs. National Conference of Undergraduate Research, Salt Lake City, Utah.
- Windsor, A. and Crowe, M. 2003. Determining what temperature *Uca pugilator* likes best. South Carolina Academy of Sciences, Clemson, SC
- Windsor, A. and Crowe, M. 2003. What temperatures do *Uca pugilator* like best? Benthic Ecology Meetings, Mystic, CT.
- Bishop, J. and Crowe, M. 2003. Taking the temperature of a crab: where is the best place? South Carolina Academy of Sciences, Clemson, SC.
- Invited, Scavenging preferences in ghost crabs, College of William and Mary, 2000
- Invited, Encouraging students to become scientists, Northern Illinois University, 1998
- Invited, The changing planet: humans and their impact on ecosystems, Claflin College, 1997
- Invited, Investigations into the behavior of imported willow leaf beetles, College of Charleston, 1996
- Invited, Group living in the imported willow leaf beetles, Duke University, 1996

#### **COURSES TAUGHT:**

Biology for Early Childhood and Elementary Education Majors, Biology for Non-majors; Introductory Biology I and II (for science majors), Animal Behavior, Conservation Ecology, Ecology, Introduction to Environmental Science, Evolution, Introduction to Research, Freshman Honor's Seminar, Sophomore Honor's Seminar

#### **SYNERGISTIC ACTIVITIES**

##### Leadership to the Academy

2004-2010 Member, Board of Governors, National Council of Undergraduate Research (NCUR)

1996-present, F<sub>21</sub> member Project Kaleidoscope;

1994-present, Council of Undergraduate Research (CUR), Councilor since 2000;

##### Consultancies

Southern Association of Colleges and Schools (SACSCOC) QEP reviewer 2017, 2012, 2011;

Onsite Committee Substantive Change 2019

Council of Undergraduate Research 2006, 2007, 2008, 2009, 2010, 2012

WV Higher Education Policy Commission 2000

Reviews

*I have sat on numerous National Science Foundation review panels (on average 1 per year).*

Panels include: INCLUDES, S-STEM, Pre-doctoral Research Grants (GRFP), Research Coordination Networks- Undergraduate Biology Education (RCN-UBE), Research Experiences for Undergraduates (REU), Course, Curriculum and Laboratory Instruction (CCLI), Informal Science Education, Undergraduate Mentoring in Mathematics and Biology (UMB), Instrumentation and Laboratory Improvement, Population Biology, Dissertation Improvement, Information and Dissemination Grants, and Math Science Partnerships.

I have reviewed manuscripts submitted to the *Council of Undergraduate Research Quarterly*, *Journal of Cell Biology Education*, *Animal Behavior*, *Ethology*, *Journal of Crustacean Biology*, and the *Journal of Gender Women and Minorities in Science and Engineering*.

I serve on the editorial board of *Journal of Applied Learning in Higher Education*

Professional Organizations:

Council of Undergraduate Research, Animal Behavior Society, Association of Women in Science, Sigma Xi, American Association of Colleges and Universities

**HONORS**

2005, 2004 Council of Undergraduate Research Volunteer of the Year

2003 Nominated for Professor of the Year, Coastal Carolina University (1 of 6 finalists)

2000 Nominated for Professor of the Year, Coastal Carolina University (1 of 6 finalists)

1998 Northern Illinois University Outstanding Young Alum

Pratt Postdoctoral Fellow, Mountain Lake Biological Station, University of Virginia (Summer 1994)

**REFERENCES**

Dr. Elizabeth Ambos  
Retired, Executive Director  
The Council of Undergraduate Research  
562-964-9160  
beth@theyer.com  
I worked closely with Beth when I was President of CUR

Dr. Kyle Fedler  
Former Provost and Vice President for Academic Affairs, Professor of Religion  
Florida Southern College  
[kfedler@flsouthern.edu](mailto:kfedler@flsouthern.edu)  
863 680 4182  
I reported to Kyle while at Florida Southern College

Dr. Tuajuanda Jordan  
President, St. Mary's College of Maryland  
[tcjordan@smcm.edu](mailto:tcjordan@smcm.edu)  
503 768 7100

I reported to Tuajuanda when I worked at Xavier University of Louisiana  
Dr. Matina Kalcounis-Rueppell  
Dean of Sciences  
University of Alberta, Canada  
[Dean.science@ualberta.ca](mailto:Dean.science@ualberta.ca)  
780-942-3111  
I worked with Matina in the REU and MathBio programs at UNCG