

## Mary L. Crowe

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### Professional Preparation

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

### Professional Employment

Director, The Office of Undergraduate Research (OUR), The University of North Carolina at Greensboro, 2/06- present  
Director, Center for Undergraduate Research, Associate Professor of Biology, Xavier University of Louisiana, 6/04-1/06  
Associate Professor, Department of Biology, Coastal Carolina University, 1999 - 2004  
Assistant Professor, Department of Biology, Coastal Carolina University, 1994 - 1999

### Five Most Relevant Publications

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  
Wilson, K., Crowe, M., Singh, J., Stamatopolis, A., Rubens, E., Gosney, J., Dimaculagan, 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  
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  
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.  
Crowe, M. and Sienerth, K. 2006. Budgeting for a centralized office of undergraduate research. *Council of Undergraduate Research Quarterly* 27(2): 54-60.

### Five Other Peer Reviewed Publications (undergraduate student names in *italics*)

Broom, M., Crowe, M., *Fitzgerald, M.* and Rychtar, J. *in press*, The stochastic modeling of kleptoparasitism using a Markov process. *Journal of Theoretical Biology*  
Crowe, M., *Fitzgerald, M.*, Remington, D. and Rychtar. 2009 Deterministic and stochastic models of kleptoparasitism, *Journal of Interdisciplinary Mathematics* 12: 161-180.

- 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
- 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.
- Crowe, M. and Boston, K. 2004. Using animal burrows to integrate math and biology. *Science Activities* 40(4):34-38.

## **Synergistic Activities**

### 1. Memberships

1994-present Member of Council of Undergraduate Research. CUR Biology Councilor since 2000; URPD councilor since 2006

1996- present F21 member Project Kaleidoscope; currently member of planning committee for faculty development workshops focused on creating research rich institutions

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

### 2. Consultancies

QEP reviewer Southern Association of Colleges and Schools

I have reviewed sponsored programs, offices of undergraduate research and biology departments in Georgia, Missouri, Illinois and Wisconsin for the Council of Undergraduate Research

I have reviewed biology departments in West Virginia for the WV Higher Education Policy Commission.

### 3. Faculty Development Workshops Organized and Lead

Council of Undergraduate Research, Initiating and Sustaining Offices of Undergraduate Research; January 2010, October 2008, February 2008, May 2007, February 2006

Project Kaleidoscope, April 2005. Creating a research-rich environment, Hope College

Project Kaleidoscope, October 2004. Ensuring the success of under represented groups in STEM learning environments. Rowan University, NJ

## **Collaborators and other affiliations**

Maya Chhetri, Sat Gupta, Terry Nile, David Remington, Olav Rueppell, Jan Rychtar- UNCG

David Brakke, James Madison University

Kathryn Wilson, IUPUI

Jessica Young, Western State University

## **Graduate Advisors**

Bethia King, Northern Illinois University

Lowell Nicolaus, Northern Illinois University (retired)

## **Master Thesis Advisor**

Bree Yednock, Coastal Carolina University

Season Klein, Coastal Carolina University