Frank W. Snowden Memorial

This symposium is a memorial to Frank W. Snowden. Frank W. Snowden was born on November 5, 1939 in New Orleans, Louisiana. Frank graduated from Xavier University of New Orleans with a B.S. in Chemistry in 1960 and earned his Ph.D. at the University of New Orleans in 1975. His extensive career included work in both industrial (3M) and governmental labs (USDA), until he found his true home in academia at the University of Minnesota (UMN).

From 1991 until his death on May 22, 2014 Frank dedicated himself to increasing participation in STEM fields, particularly by those traditionally under-represented in science and engineering. While at Minnesota, Frank directed numerous programs including the Academic Programs for Excellence in Engineering and Science, Project Lead the Way, Community of Scholars Program, Multicultural Undergraduate Research Program, Kirby Puckett Jackie Robinson Foundation Scholarship Committee, and especially, the MRSEC Education and Outreach Program since its inception in 1998. In all these roles, Frank worked tirelessly not only to show students the path to careers in STEM, but to keep them on it. Once a student walked through Frank’s door, they were under his watchful eye until the day they graduated, and often, well into their professional career. Frank took immense pleasure in working with and mentoring the exceptional students that passed through his numerous programs — and even greater pride in the successes of those students after they left.

SESSION AAA1: Institutional Support for Undergraduate Research
Session Chair: Steven Yalisove
Monday Morning, December 1, 2014
Sheraton, 3rd Floor, Hampton

8:45 AM *AAA1.01
The Impact of Broader Participation in Undergraduate Research Sandra Gregerman, University of Michigan, Ann Arbor, Michigan, USA.

9:15 AM AAA1.02
An Unanticipated Outcome of Undergraduate Research Experiences for Community College Students: Creation of a Materials Science and Engineering Educational Program
Barthel M. Stienberg, West Houston Center for Science & Engr, Houston Community College, Houston, Texas, USA.

9:00 AM AAA1.03
Impacts of a Multi-University REU Program
Carol F. Barry1,2, Jacqueline Isaac3,4, Glen P. Miller2, and Carol L. Alpert2, 1Plastics Engineering, University of Massachusetts Lowell, Lowell, Massachusetts, USA; 2Center for High-Rate Nanomanufacturing, University of Massachusetts Lowell, Lowell, Massachusetts, USA; 3Mechanical and Industrial Engineering, Northeastern University, Boston, Massachusetts, USA; 4Center for High-Rate Nanomanufacturing, Northeastern University, Boston, Massachusetts, USA.

9:45 AM AAA1.04
A Recipe for Successful Undergraduate Research
Sunghee Lee, Chemistry, Iona College, New Rochelle, New York, USA.

10:00 AM BREAK

SESSION AAA2: Recognizing Best Practices in Undergraduate Research
Session Chair: William Hughes
Monday Morning, December 1, 2014
Sheraton, 3rd Floor, Hampton

10:30 AM *AAA2.01
Factors Associated with Student Decision-Making for Participation REU Programs
D. R. Economy1, J. L. Sharp2, J. P. Martin3, and M. S. Kennedy4, 1Department of Materials Science and Engineering, Clemson University, Clemson, South Carolina, USA; 2Department of Mathematical Sciences, Clemson University, Clemson, South Carolina, USA; 3Department of Engineering and Science Education, Clemson University, Clemson, South Carolina, USA.

11:00 AM AAA2.02
"I Didn't Think Kids Like Me Got Opportunities Like This": Best Practices of Mentoring Underrepresented Students in Research
Jenny O. Shanaan5 and Saritha Nellutla6, 5Undergraduate Research, Bridgewater State University, Bridgewater, Massachusetts, USA; 6Chemical Sciences, Bridgewater State University, Bridgewater, Massachusetts, USA.

11:15 AM *AAA2.03
Characteristics of Excellence in Undergraduate Research (COEUR): A Guide to Building Productive, Sustainable Undergraduate Research Programs
Roger Rowlett, Chemistry, Colgate University, Hamilton, New York, USA.

SESSION AAA3: Examples of Successful REU Programs
Session Chair: William Hughes
Monday Afternoon, December 1, 2014
Sheraton, 3rd Floor, Hampton

1:30 PM AAA3.01
REU in Physics at Howard University
Prabhakar Miga, Tristan Hutsch, Demetrius Venable, Silvina Gatica, Kimani Stancil, Belay Demoz and Gregory Jenkins, Physics & Astronomy, Howard University, Washington, District of Columbia, USA.

1:45 PM AAA3.02
An REU in Glass Science —Lessons and Legacy for Undergraduate Materials Education
William R. Hoffner and Himanshu Jain; Int. Mater. Institute for New Functionality in Glass, Lehigh University, Bethlehem, Pennsylvania, USA.