

2008- 2009 Faculty Scholarship and Grants

- Grants, Awards, & Honors

Professor of Physics **Mario Affatigato** and B.D. Silliman Professor of Physics **Steve Feller** were awarded a National Science Foundation grant of \$17,537 for travel to allow 15 students and faculty to attend the 6th International Conference on Borate Glasses, Crystals, and Melts in Osaka, Japan. Dr. Feller also served on the international organizing committee of the conference.

Associate Professor of History **Derek Buckaloo** participated in a roundtable discussion on “The Ethics of Foreign Policy,” a live broadcast of KCRG-TV’s program *Ethical Perspectives on the News*.

Professor of Humanities **Edmund Burke** was selected as a Fall 2009 visiting faculty member of the Florence Program sponsored by Associated Colleges of the Midwest.

Assistant Professor of Biology **Randy Christensen** and Coe student **Bailey Clark** were awarded a \$2000 grant from the Iowa College Foundation in support of their McElroy Research Project.

Associate Professor of Chemistry **Maria Dean** and Coe student **Rebecca Pine** were awarded a \$2000 grant from the Iowa College Foundation in support of their McElroy Research Project.

B.D. Silliman Professor of Physics **Steve Feller** and Coe student **Amanda Havel** were awarded a \$2000 grant from the Iowa College Foundation in support of their Maytag Research Project.

In addition, Dr. Feller served as Chair of the 2008 Sigma Pi Sigma Congress (the national meeting for undergraduates in physics) and was invited to participate in the Faculty of Natural Sciences’ Distinguished Scientist Visitors Program offered through the Ben-Gurion University of the Negev in Israel.

Assistant Professor of English **Melissa Sodemán** was recognized as an Andrew W. Mellon Foundation Fellow in the Fall 2008 issue of *The Huntington Spectator*.

- Publications

Professor of Physics **Mario Affatigato**, B.D. Silliman Professor of Physics **Steve Feller** and Coe student **Michael Burgess** co-authored “Packing as a probe of structure in alkaline earth glass systems,” that was published in *Journal of Non-Crystalline Solids*.

Associate Professor of History **Derek Buckaloo** had the following book reviews accepted for publication:

- o Sean Wilentz, *The Age of Reagan: A History, 1974-2008*
- o Matthew C. Price, *The Advancement of Liberty: How American Democratic Principles Transformed the Twentieth Century*

Professor of English **Terry Heller** had his Sarah Orne Jewett Text Project cited as “a remarkably thorough collection of writing by and about Sarah” in the Sarah Orne Jewett Walking Tour brochure.

Professor of Music **William Carson** wrote the article “Grainger’s ‘Spoon River’ for Band” that was published in the June 2008 issue of *Hoard House*, a University of Melbourne publication.

- Exhibitions/Recitals

Adjunct Assistant Professor of Music **Brett Wolgast** and Teaching Artist in Music **Marita Wolgast** performed four-hand piano duet music on a live broadcast of KSUI Radio’s “Know the Score.”

- Conferences

Professor of Physics **Mario Affatigato**, B.D. Silliman Professor of Physics **Steve Feller** and Associate Professor of Chemistry **Steve Singleton** presented the following posters at the 2008 Sigma Pi Sigma Congress:

- o “Properties of Bismuth Glasses at Compositional Extremes;”
- o “Design and Operation of a New Roller Quencher for Rapidly Cooling Melts into Glasses,” with Coe student **Amanda Havel**,*
- o “Elucidation of Quadrupole Parameters by Simulation of 10B NMR Powder Patterns,” with Coe student **Jack Berkowitz**,*
- o “Laser Induced Modification of Alkali Borate Glasses,” with Coe students **Ben Franta** and **Landon Tweeton**;
- o “The Playground of Science: An Annual Outreach Event at Coe College” with Coe students Amy Marquardt, Benjamin Franta, Jack Berkowitz, Maranda Franke, Amanda Havel, Manh Vu;
- o “Structural Determination of Alkaline-Earth Borosilicate Glasses through Density Modeling,” with Coe students **Tyler Mullenbach**, **Maranda Franke**, **Alexander Ramm**, **Tyler Munhollen**,*
- o “Structural Effects of Europium on Lead Borate Glasses” with Coe student **Amy Marquardt**;

Professor of Physics **Mario Affatigato**, B.D. Silliman Professor of Physics **Steve Feller**, Associate Professor of Chemistry **Steve Singleton** and Coe students **John Berkowitz**, **Saurav Bista**, **Maranda Franke**, **Benjamin Franta**, **Amy Marquardt**, **Tyler Mullenbach**, **Anthony O'Donovan-Zavada**, and **Alexander Ramm** co-authored the following for presentation at the 6th International Conference on Borate Glasses, Crystals, and Melts (BORATE 2008):

- o “A Review of Physical Properties of Borate Glasses Related to Atomic Structure;”
- o “Packing in alkali and alkaline-earth borosilicate glass systems;”
- o “Laser Desorption Time of Flight Mass Spectroscopy Applied to Heavy Metal Borates;”
- o “Laser Induced Modification of Borate Glasses;”
“Physical Properties and Structural Determination of Alkaline Earth Borosilicates;”
- o “Structural Effects of Europium on Lead Borate Glasses;”
- o “Simulation of Quadrupole Interactions in ¹⁰B NMR Powder Patterns.”

Professor of Physics **Mario Affatigato**, B.D. Silliman Professor of Physics **Steve Feller**, Associate Professor of Chemistry **Steve Singleton** and Coe students, including **Robert Kramer** and **Manh Vu** contributed to the following presentations that were offered at the ACerS 2008 Glass & Optical Materials Division Meeting:

- o “Structural Study of Rapidly Cooled Lead Silicate Glasses;”
- o “Lithium Bismuthate Glasses Studied Using Laser Ionization Time of Flight Mass Spectrometry;”
- o “Molar Volumes and structure of Alkali and Alkaline-Earth Vanadate Glasses.”

B.D. Silliman Professor of Physics **Steve Feller** and Coe student **Sam Hegland** presented “Borosilicate Research Using MAS-NMR” at the May 2008 R.J. McElroy Student/Faculty Research Symposium, Wartburg College.

Professor Feller also offered the keynote address at the 25th Annual Holocaust Memorial Commemoration in Shreveport, Louisiana, presented an educational program on Holocaust-related money at a World War II exhibit held at Yellowstone Boys and Girls Ranch, and participated in a colloquium at Seton Hall University on Holocaust money and related artifacts.

Assistant Professor of Spanish **Mónica Fuertes-Arboix** presented “La vida cultural en los Países Bajos y Francia según Mesonero Romanos y Modesto Lafuente” at *La Literatura Española Del Siglo XIX y Las Literatures Europeas* at the University of Barcelona. In addition, Dr. Fuertes-Arboix shared “El compromise con la realidad española de Modesto Lafuente en su libro *Viages de Fray gerundio por Francia, Bélgica, Holanda y Orillas del Rhin, (1842)*” at the 21st Annual Pennsylvania Foreign Language Conference at Duquesne University.