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THE UNIVERSITY OF MICHIGAN
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Item for Information

Subject: Henry Russel Awards for 2013

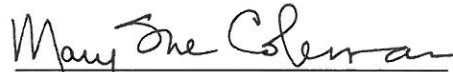
I am pleased to inform you that the Russel Awards Faculty Advisory Committee, chaired by Dean Janet A. Weiss, has selected two faculty members to receive Henry Russel Awards for 2013. This award, which recognizes both exceptional scholarship and conspicuous ability as a teacher, is one of the highest honors the University bestows upon junior faculty members. The awards will be presented on the occasion of the Henry Russel Lecture, to be delivered March 14, 2013.

The faculty members selected to receive this award are:

Allison Steiner, Assistant Professor of Atmospheric, Oceanic and Space Sciences, College of Engineering, Assistant Professor, Earth and Environmental Sciences, College of Literature, Science and the Arts

Angela Violi, Associate Professor, Mechanical Engineering, Associate Professor, Chemical Engineering, Associate Professor, Biomedical Engineering, Associate Professor, Macromolecular Science and Engineering, College of Engineering

Respectfully submitted:


Mary Sue Coleman
President

June 2012

Attachment

Allison Steiner

Allison Steiner is assistant professor of atmospheric, oceanic and space sciences, College of Engineering, and assistant professor, earth and environmental Sciences, College of Literature, Science and the Arts. Professor Steiner came to the university in 2006 after completing her term as a postdoctoral research fellow at the University of California, Berkeley in the Department of Environmental Science, Policy and Management. In 2003 she received her Ph.D. in Atmospheric Science from the Georgia Institute of Technology.

Professor Steiner's work is notably interdisciplinary, spanning the fields of atmospheric science, vegetation biology, and land surface hydrology. Her areas of research include biosphere-atmosphere interactions, regional climate modeling, chemistry-climate interactions, atmospheric aerosols, and biogenic volatile organic compound emissions. This work has led to an improved understanding of the complex feedbacks between biosphere and atmosphere, processes that are critical to the understanding of climate sensitivity and feedbacks, and essential for decision making on adaptation to and mitigation of climate change. She is also nationally and internationally recognized as leading the field in assessing the contribution of biogenic aerosol emissions from vegetation to total aerosol loads.

Even at this early stage of her career, Professor Steiner has published in 21 articles in refereed journals. Professor Steiner has been principal investigator, co-principal investigator or subcontract principal investigator for nine grants. Among her honors and awards is the highly prestigious National Science Foundation CAREER Award in 2010.

Professor Steiner's teaching complements her research agenda and reflects her educational background in both engineering and atmospheric sciences. This interdisciplinary approach results in teaching that is grounded in data analysis and practical applications. Professor Steiner encourages her students to pursue their own interests and engage in collaborative exercises and field experiments. She has taught undergraduate core courses in atmospheric, oceanic and space sciences as well as developing new graduate courses that in turn are becoming part of the department's core curriculum. Professor Steiner serves as chair on four doctoral dissertation committees, and served or is serving on six other dissertation committees.

Her notable involvement in mentoring at the undergraduate as well as graduate level extends beyond the university. Professor Steiner has an active service record at the national and international level. For example, she is co-founder of Earth Science Women's Network which was recently awarded an NSF ADVANCE grant of one million to expand member resources. Her international service includes her work with the Abdus Salam International Centre for Theoretical Physics (ICTP) in Trieste, Italy which is funded through the United Nations, with the mission of training scientists from developing nations.

Angela Violi

Professor Violi completed her both her B.S. degree (summa cum laude) and her doctorate in chemical engineering at the University of Naples (Italy). This was followed immediately in 1999 by a postdoctoral research appointment at the University of Utah, where in 2004 she was appointed research assistant professor in the Department of Chemistry. In 2006 she received joint appointments at the University of Michigan in mechanical engineering, chemical engineering and biomedical engineering.

Professor Violi's research interests lie at the intersection of combustion science, nanoscience, environmental science, and biomedical science. Her research involves the study, through modeling and simulation, of carbonaceous nano-particle formation and the impact of these particles on the environment, on the lungs, and in applications such as tribology. Professor Violi's interdisciplinary skills are applied to a wide range of scientific problems from the fundamental science of quantum chemistry, statistical mechanics and reaction rate theories, to the realm of engineering simulations. Since joining the University of Michigan she has built upon her outstanding previous research in combustion to move into entirely new areas that involve carbonaceous nanoparticle structure and properties. Professor Violi has significantly expended her computational capabilities to address timely new problems, turning her attention to novel fuels, nanoparticles in the environment and their interaction with biological systems, and tribology of lubricants.

Professor Violi's publication record includes 51 peer-reviewed publications and four book chapters. This same productivity is reflected in her record of delivering 45 invited talks and six plenary lectures at national and international conferences, professional society meetings, workshops, departmental colloquia, and private businesses. She has established an enviable reputation through her publications, invited presentations at prestigious international conferences, reviewing papers, and organizing or chairing sessions.

The quality of her research has been recognized through several honors. Among other awards, Professor Violi received the Enichem National Prize for Distinguished Thesis in Chemical Engineering; the prestigious Bernard Lewis Fellowship from the International Combustion Institute; and the National Science Foundation CAREER Award. Her engagement in teaching and mentoring was recognized with the 2010 Education Excellence Award in the College of Engineering at the University of Michigan.