

Fuel Chemistry Division American Chemical Society 2009 Election Slate

Chair-elect: Andy Herring

Treasurer: Yongshen Chen*

Councilor: Semih Eser*

Alternate councilor: Angela Lueking*

Director-at-large: Kathleen Carrado*

****Statements and Bios:***

Semih Eser

To follow the imperative of the title I would like to state 1) my willingness to stand as a candidate for the Councilor position to represent the Fuel Chemistry Division, 2) that I am fully aware of the challenge/demand to follow Katie Carrado will do my best to emulate her leadership; 3) pledge for a proactive approach to keep the Fuel Division strong in the rapidly changing landscape of energy and fuels; 4) my thanks for the opportunity to run as a candidate.

BIOGRAPHY



Semih Eser

Semih Eser is a Professor of Energy and Geo-Environmental Engineering at Penn State University. Eser received his B.S. (1976) and M.S. (1978) degrees in Chemical Engineering from Middle East Technical University in Ankara, Turkey and his Ph.D. (1986) in Fuel Science from Penn State University. From 1987 to 1988, he worked as a research associate in the Department of Chemical Engineering at Auburn University. He

returned to Penn State in 1988 and was appointed as an assistant professor of Fuel Science in 1989. He served the Department of Energy and Geo-Environmental Engineering as Associate Head (2001-2006) and Acting Head (2004). At the EMS Energy Institute, he served as the associate director and director of the Laboratory for Hydrocarbon Process Chemistry (1995-2000). Currently, he teaches at the Department of Energy and Mineral Engineering and coordinates research on carbon materials at the EMS Energy Institute. His professional activities include serving as Program Chair (2004) and Chair (2006) of the Fuel Chemistry Division of American Chemical Society, and currently serving on the editorial boards of the Journal of ASTM International, Chemistry Central Journal as section editor of Energy and Fuels, and Journal of Oil, Gas, and Coal Technology. For the academic year 2008-2009, he is on sabbatical at the Autónoma University of Madrid in Spain.

Yongshen Chen

As a Treasurer, I will strive to keep a complete and accurate record of the cash flow in and out the Fuel Chemistry Division and at the same time keep it flow as smoothly as possible.

Biographical Information

Yongsheng Chen is an Assistant Professor in the Department of Energy and Mineral Engineering at Pennsylvania State University's University Park campus. He received his B.S. in Materials Science and Engineering from Tsinghua University, Beijing, China, in 1994. He attended the Graduate School of the Chinese Academy of Sciences, carried out research work on surface physics at the Institute of Physics in Beijing, and received his M.S. in Physics in 1997. He then advanced his graduate studies in heterogeneous catalysis at Lehigh University in Bethlehem, Pennsylvania, and obtained a Ph.D. in Chemical Engineering in 2003. Dr. Chen started his postdoctoral training at the Pacific Northwest National Laboratory in Richland, Washington, working with Staff Scientist John L. Fulton on various research topics using synchrotron based x-ray absorption fine structure spectroscopy. He joined Penn State University in November 2007 after a short appointment as a Research Associate at the National Renewable Energy Laboratory in Golden, Colorado. His current research interests include heterogeneous catalysis for energy applications, catalyst structure characterization, and sulfur poisoning mechanism of steam reforming catalysts.



Angela Lueking

Biographical Information for Angela Lueking

Angela Lueking is an Associate Professor in the Energy and Mineral Engineering Department at Pennsylvania State University's University Park campus. The theme of

Angela's research is to explore new materials for energy storage applications, and she the main focus of this effort for the past ten years has been on new hydrogen storage materials. She has received international recognition for her work in catalyzed carbon composite materials, which invoked the hydrogen spillover hypothesis to explain activation of carbon materials in the presence of a catalytic material and the effect of carbon defects and pretreatment on hydrogen storage. Since coming to Penn State in 2003, she has developed new nanoporous carbons such as exfoliated graphite nanofibers, developed a fundamental framework to understand hydrogen spillover, and designed and built a differential high pressure unit to accurately measure adsorption. At Penn State, she has teamed with material scientists expert in characterization and simulation to gain a more fundamental understanding of the materials and mechanisms she utilizes in hydrogen storage. In 2006, her work in combined hydrogen storage and production by ball milling a low-cost carbon precursor with a hydrogen donating solvent received wide international attention and two patents have been filed on this process. She has experience in synthesis of carbon nanotubes via chemical vapor deposition, metal doping, incorporation of heteroatoms into storage materials through ball milling, and characterization using TEM, SEM, XPS, XRD, and TGA. Angela has been serving the ACS Fuel division as Treasurer since 2007, and also serves Penn State as an elected representative to the Graduate Council.

Kathleen Carrado



Dr. Kathleen Carrado Gregar is the Manager of User & Outreach Programs at Argonne National Laboratory's Center for Nanoscale Materials. Her roles include responsibility for the development of strategic alliances and collaborative partnerships with academia, industry, and the user community at large, as well as to manage user programs administration.

After attaining her PhD in inorganic chemistry from the University of Connecticut (1986), she came to Argonne as a postdoc in the Chemistry Division. During her twenty years in that Division she rose through the ranks eventually to Group Leader of the Catalyst Design Group, with research on new catalysts and designer carbons based on

layered materials, silicate sol-gel materials chemistry, nanocomposite polyelectrolytes for batteries and membranes in fuel cells, hydrodesulfurization & oxidative dehydrogenation catalytic supports, as well as characterization by diffraction, microscopy, NMR, neutron scattering, and synchrotron x-ray radiation techniques.

She has authored over 60 peer reviewed papers, 7 book chapters, 3 books, and 4 patents. Katie has served in governance positions for the American Chemical Society's Fuel Chemistry Division as their Chair, Program Chair, and is just finishing her second term as Councilor. She has served on advisory boards for the Clay Minerals Society, for a Gordon Research Conference, and is on the editorial boards of several journals. In 2006 she was presented with a DOE Office of Science Undergraduate Research Programs "Outstanding Mentor" Award.