



OFFICERS

- **CHAIR**
Andrea Holmes
Doane College
andrea.holmes@doane.edu
402.826.6762
- **CHAIR-ELECT**
Nathanael Fackler
Nebraska Wesleyan Univ.
nfackler@nebrwesleyan.edu
402.465.2261
- **SECRETARY**
Kerry Lucas
Doane College
kerry.lucas@doane.edu
402.826.8243
- **TREASURER**
Nicholas Madhiri
Union College
nimadhir@ucollge.edu
402.486.2600 ext. 2362
- **COUNCILOR**
Scott Darveau
Univ. of Nebraska–Kearney
darveusa@unk.edu
308.865.8491
- **ALTERNATE COUNCILOR**
Michael Mosher
Univ. of Nebraska–Kearney
mosherm@unk.edu
308.865.8385
- **BOARD MEMBERS**
Fred Mattes
Hastings College
fmattes@hastings.edu
402.461.7383

Kim Richman
CCC-Hastings Campus
krichman@cccneb.edu
402.461.2489

Annette Moser
Univ. of Nebraska–Kearney
mose-rac@unk.edu
308.865.8719
- **WEB MASTER**
Nathanael Fackler
Nebraska Wesleyan
Univ. nfack-
ler@nebrwesleyan.edu
402.465.2261

American Chemical Society

Nebraska Section Newsletter

<http://nebraskaacs.nebrwesleyan.edu/>

SEPTEMBER 2009

October Speaker: Dr. Michael Tunick

Monday, October 12, 2009

“Molecules to Mozzarella: The Chemistry of Cheese”

Venue: Valentinos at 35th and Holdredge in Lincoln, NE

Time: 5:30 pm

Dinner: Enjoy the full buffet for only \$1 for students and \$5 for ACS members!

Coagulation of milk, removal of whey, and ripening are all required when making cheese, and chemistry is involved every step of the way. This non-technical talk describes the procedure from raw milk to final product, and illustrates the differences between cheese types, including the development of the many flavors in cheese.

Biographical Sketch: Michael H. Tunick received a B.S. in Chemistry from Drexel University in 1977. He was a student trainee at the Eastern Regional Research Center of the U.S. Department of Agriculture in Wyndmoor, PA, and was hired as a chemist upon graduation. He performed research on treatment of tannery waste with the Hides and Leather Laboratory until 1983, when he was transferred to what is now the Dairy Processing & Products Research Unit. He pursued a Ph.D. in Physical-Analytical Chemistry on a part-time basis during this period, receiving the degree from Temple University in 1985. He also became a research chemist in that year and was involved in a number of projects, including detection of mislabeled cheese and development of low-fat Mozzarella for the National School Lunch Program. He currently relates the effects of processing to changes in composition, texture, and microstructure of cheese and extruded whey proteins. He is the Secretary and a Past Chair of the ACS Division of Agricultural and Food Chemistry, and is Councilor and Past President of the Thermal Analysis Forum of Delaware Valley.



Undergraduate Students Can Now Participate in Local Sections

Effective June 2009, all ACS Student Affiliates are now Student Members. Last fall, the ACS membership voted to change the Society bylaws to grant all undergraduates the rights of full membership as Student Members, including membership in ACS Local Sections.

ACS is now actively recruiting undergraduates to become members of the ACS. **Undergrad.ACS.org** is the primary

recruitment tool staff members have developed for this audience. Please refer students to this web site if they are interested in joining ACS. The site describes all of the benefits of ACS membership geared specifically for undergraduates. We hope that by bringing in new undergraduate student members, ACS Local Sections will benefit from an increase in participation and contributions

from the next generation of chemical scientists.

Don't forget, every new student member you recruit also applies toward your local section commission claim and the 2009 ACS President's Challenge. Just be sure to have the student select your local section as the referral on the online membership application found on undergrad.ACS.org.

More info: June 15, 2009 article in Chemical & Engineering News

Statements from President-Elect Candidates

NANCY B. JACKSON, CHERYL A. MARTIN AND MARY VIRGINIA ORNA

Nancy B. Jackson

The American Chemical Society is a diverse collection of chemical scientists and engineers who are served by an impressive array of ACS publications, technical meetings, and dedicated volunteers

Research and innovation, especially in the central and enabling chemical sciences, is essential to economic prosperity and necessary to meet our future challenges related to energy and sustainability. If elected ACS President, I will work to bring that message to the public and to government at all levels.

To excel at research and innovation requires excellence in many components: **The most important is edu-**

cation. Better chemical, mathematic, and scientific education at the K-12 level is vital for attracting and enabling young people to succeed in a career in the chemical sciences. Other aspects necessary for us to excel in research and innovation include a strong and consistent federal support for research, healthy colleges and universities, and a productive and focused national laboratory system.

As president, I would be a tireless advocate for the necessary components for excellence in research and innovation.

Global alliances with chemical societies and well chosen partners among scientific societies within this country can be used to greatly amplify our advo-

cacy efforts. If elected ACS President-elect in 2010 to be President in 2011, the International Year of Chemistry, I will unite with the world's chemical societies to advocate tirelessly and in a unified fashion. I will partner with our international colleagues to educate policy makers and the public on the importance of the chemical sciences and the absolute dependence upon chemical research and innovation for long term environmental sustainability and economic well being.

I ask for your support and your vote. In return, I promise to give my enthusiasm, energy, and commitment to serve the members of the American Chemical Society and the chemical profession.

Cheryl A. Martin

The ACS President represents the interests of the 150,000+ Society members, providing a strong voice to help shape the ACS agenda and priorities. I am committed to this - truly listening to and understanding what is on YOUR mind. There are many challenges facing the US and the world today where chemists can have a significant impact on the possible solutions. I distill my thoughts on how to approach these challenges into a single word: sustainability - in its broadest sense, both 'green' and 'ongoing' - sustaining our members, sustaining the environment, sustaining jobs in the US and broadly in the field of chemistry, sustaining partnerships that allow the spread of technology developments worldwide, sus-

taining dreams in the eyes of our children. I believe we must focus our actions, within the tenets of the new ACS Strategic Plan, in four areas: Innovation, Partnerships, Education and Leadership. My expanded statement and more details about me can be found on my blog: <http://camartinacscandidate.blogspot.com>.

So, why vote for me? Over the past 20 years, I have engaged actively in many ACS local and national events and committees and I believe strongly in the ACS and its mission: "improving peoples' lives through the transforming power of chemistry." I have been both an active team member and a leader/mentor and I know how the Society

works. My professional career has been varied and challenging, moving from lab bench to marketing, finance to management. Most recently I have had the opportunity to lead the Rohm and Haas Coatings business in Europe, Middle East and Africa, introducing innovative solutions with a significant focus on sustainability. This has been an amazing experience enhancing how I view the possibilities of broad partnerships and diversity of thought to bring new ideas to fruition. I ask for your vote!

Mary Virginia Orna

CRITICAL ANALYSIS FOR CHALLENGING TIMES

Local Sections are the life blood of the American Chemical Society. ACS officers and volunteers are unsung heroes and heroines who, for “high salaries!” received, perform admirably. Your devoted, selfless, diligent contributions have enabled ACS to become the world’s largest scientific professional organization. Local Sections address the “green edge of innovative thought” that, through new models and structures, eventually drives our educational systems and the economy.

All ACS activities share the ultimate goal of promoting chemistry as a fundamental driver that improves the quality of everyone’s life—worldwide. However, humans, not computers, do chemistry. ACS is a membership organization. Thus, our guiding principle, in whatever we do, should be to keep ACS members’ best interests always in mind – weighing how each decision will affect individual ACS members. So, I solicit your help in learning more about your professional needs and interests.

As ACS President, I will regularly seek your recommendations and inform you of activities and strategies to support and assist your members. I will confer and work with you to improve and strengthen communications, develop resources, sponsor programs, and promote effective policies to enable your Local Section to grow and flourish in these challenging times.

This limited statement cannot fully describe the assiduous efforts I will undertake on your behalf, if elected. Please visit www.maryvirginiaorna.net for my complete critical analysis for these challenging times. Contact me at mvorna@cnr.edu with questions and suggestions. I pledge to work with everyone – particularly with you, your Section leaders, Councilors, and committees. I am determined to serve as a responsive, hard-working, committed ACS President. I will be honored to receive your vote and trust to enhance YOUR professional status, the entire chemical enterprise, and ongoing benefits it generates for everyone.

WE NEED YOU!

Do you enjoy meeting new people? Are you interested in being more involved in ACS? Would you like to serve on the Local Section executive board? Do you know an ACS member who would? If you answered yes to any of these questions, we would like you to think about serving as an officer for the Local Section! All positions are open: 3 Board members, a Secretary, a Treasurer, a Chair Elect, a Councilor and an Alternate Councilor. For a description of these positions, please see the By-laws on the website: <http://nebraskaacs.nebrwesleyan.edu/>. We will be holding elections soon, so PLEASE contact the current Chair, Andrea Holmes: andrea.holmes@doane.edu or 402-826-6762 if you would like be a part of something great!

Do you have news you want share? Feel free to call or email me your news

and I will put it in the next newsletter!

Kerry Lucas: 402-826-8243 or kerry.lucas@doane.edu