



Winter 2012

Polymeric Materials: Science and Engineering
Division of the American Chemical Society

Greetings!

Welcome to the first issue of *PMSENews* in 2012! We will now be publishing this electronic newsletter every quarter, replacing the twice-yearly print version.

As usual, we will bring you news and items of interest to the PMSE community, including details of upcoming meetings, awards and recognition, book reviews and messages from the executive committee.

We want to hear from you on what else you'd like to see included in these newsletters - please email the [Editor](#) with your feedback. Enjoy this Winter issue, and hang in there - Spring is coming!

In This Issue

Chair's Message

Cebe Receives Presidential Award

2012 PMSE Fellows

2012 Roy W. Tess Award

2011 PMSE Election Results

Chair's Message



Dear PMSE Members,

The PMSE Division Executive Committee has been working for the past couple of years to redefine our Division, so that we remain relevant to our membership in a constantly-evolving world. We also want to make sure that there are clear differences between ourselves and our sister division, POLY - without the occasional "reset", ACS divisions will tend to occupy the same technical space. Through our meetings at each national meeting, and our annual leadership retreats in January, we have reaffirmed the "M" in PMSE, that is Materials, as something that differentiates us from other divisions. At the San Diego and future ACS National Meetings, look for increasing emphasis on Materials as an important aspect of PMSE programming. Also look for a new

annual conference between PMSE and the Chinese Chemical Society, which should broaden our exposure and reach in that growingly important scientific community. The inaugural PMSE/CCS conference will be held this April in Chengdu China (PMSE officers and Fellows will be presenting at that

Upcoming Events

ACS Spring 2012 National Meeting & Exposition

Sunday March 25 - Thursday
March 29, 2012
San Diego, CA, USA

Preview PMSE Programming

Meeting Content available online!

ACS Meeting Presentations are now available at the [ACS Learning Center](#) - a great resource for members who are not able to make it to the meetings!

Leadership courses

Scholarships Available for Leadership Courses at the Spring National Meeting

The ACS Leadership Program is offering four courses in conjunction with the ACS National Meeting in San Diego:

-Engaging Colleagues in Dialogue
(March 25, 1PM -5 PM)

-Leading Without Authority
(March 26, 8 AM-12 PM)

-Strategic Planning
(March 26, 1 PM-5 PM)

-Leading Change
(March 27, 1 PM-5 PM)

These courses are designed

conference), with the 2013 meeting to be held in the U.S., probably associated with the March ACS meeting in New Orleans - please consider participating in that meeting. We have prepared an exciting set of symposia for the Spring 2012 American Chemical Society Meeting in San Diego, to be held March 25-29th. As always, tremendous thanks are due to the PMSE technical programming committee, which works diligently to organize outstanding programming for the benefit of PMSE members. If you are able to attend the upcoming meeting in San Diego, please visit the PMSE Table in the Manchester Grand Hyatt, as we always appreciate input from membership. If you are interested in getting more deeply involved with PMSE, through programming or other activities, please contact me at the meeting, or by [email](#). A number of exciting technical symposia have been organized - for a full list, see [Future Programming](#). In addition to the technical symposia listed below, PMSE is pleased to honor Professor Edwin Thomas with the ACS Polymer Award. Look for the Frontiers in Polymer Science & Engineering symposium which will celebrate the work of some of our PMSE Fellows.

Additional PMSE Programming in San Diego:

- Advanced Materials from Cellulose and Renewable Polymers
- Electrospun Fibers from Renewable Materials
- Fire and Polymers
- Nanofabricated Surfaces: Techniques, Materials, and Applications
- New Frontiers in Stimuli-Responsive Supramolecular Assemblies
- Next-Generation Renewable Polymers
- Polymer Based Hybrid Materials for Energy Conversion, Storage and Transmission
- Responsive Nanostructured Materials via Self-Assembly
- Self-Assembled Nanostructures of Biopolymers, Organic Semiconductors, and Inorganics.
- Federally Funded Polymer Research
- Joint PMSE/POLY Poster Session.
- General Papers/New Concepts in Polymeric Materials.

Best wishes for an enjoyable and stimulating ACS meeting in San Diego!
Sincerely,

Dave Schiraldi
Case Western Reserve University
2012 Chair of the PMSE Division

Peggy Cebe Receives Presidential Award

Peggy Cebe, Professor of Physics at Tufts University and 2001 Chair of PMSE and member since 1986, was one of the recipients of the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring, according to the White House Press release in Nov. 2011.

to help you advance your career, be more effective in your position, and equip you with tools to more effectively lead ACS volunteer initiatives. Full and partial scholarships are available to ACS members on a first-come, first-served basis. View the [course descriptions](#) and contact leaders@acs.org to reserve your slot today.

ACS Webinars

[ACS webinars](#)

- a free webinar series with subject experts and global thought leaders in chemical sciences, management, and business on relevant professional issues.

Careers

Find your next job at the [ACS Career Fair](#)

Considering a Career as a High School Chemistry Teacher?

ACS can help you pursue your dream of becoming a high school chemistry teacher with the ACS-Hach Second Career Teach Scholarship. This scholarship is awarded to professionals with work experience in chemistry-related fields. Scholarship recipients receive up to \$6,000 for full-time study and up to \$3,000 for part-time annually. Applications are due on **April 1, 2012**. Learn more about this exciting scholarship program at www.acs.org/hach.

From our sponsors



Peggy Cebe, second from left, with other 2010 PAESMEM winners, in the Oval Office. Picture Credit: Official White House Photo by Pete Souza.

The Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring, recognizes the crucial role that mentoring plays in the academic and personal development of students studying science and engineering-particularly those who belong to groups that are underrepresented in these fields. By offering their expertise and encouragement, mentors help prepare the next generation of scientists and engineers while ensuring that tomorrow's innovators reflect and benefit from the diverse talent of the United States.

Over her 24-year career in academia Peggy has mentored 103 undergraduates, most of them from underrepresented groups. Since 2003, Peggy has instructed and mentored 34 deaf and hard of hearing (DHH) interns who have conducted research leading to co-authorship of scientific publications and presentations at national scientific meetings.



The Awards Ceremony was held in Washington on December 12, 2011. Awards certificates, signed by President Obama, were presented by Dr. Subra Suresh (left), director of the National Science Foundation, and Dr. John Holdren (right), Science Advisor to the President.

Professor Cebe will be honored at the Philadelphia PMSE Award Ceremony to be



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Electronic Copies of PMSE Preprints

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We are still looking for Preprint volumes 1-29 (pre-1970 issues) for our archive. Anyone with such volumes who is willing to donate them to the PMSE, please contact [Lisa Baugh](#). PMSE will reimburse shipping costs, and provide a form showing the value of the donated volumes is

held in August, 2012. Additionally, "Providing Opportunities for Under-represented Students in Polymer Science: A Symposium in Honor of Professor Peggy Cebe," will be held at the New Orleans ACS Meeting, April 7-11, 2013.

Twelfth Class of PMSE Fellows

Four distinguished PMSE members, **Professor Stephen Z. D. Cheng** of the University of Akron, **Professor Lloyd Robeson** of Lehigh University, **Professor Jimmy Mays** of the University of Tennessee, and **Dr. Abhimanyu O. Patil** of ExxonMobil Research and Engineering have been named the twelfth class of PMSE Fellows. They will be inducted during the PMSE Awards Reception at the Anaheim ACS Meeting. PMSE is pleased to welcome this distinguished group of polymer scientists and engineers to the ranks of Fellows. [See Details.](#)

2012 Roy W. Tess Award in Coatings



Dr. Benny D. Freeman of the Department of Chemical Engineering at The University of Texas at Austin will receive the Roy W. Tess Award in Coatings for 2012.

Dr. Freeman began his academic career at North Carolina State University in 1989 in the Chemical Engineering Department as an Assistant Professor, quickly progressed to full Professor and also served as Associate Department Head. In 2002, Benny moved to The University of Texas at Austin and is currently the Kenneth A. Kobe and Paul D. and Betty Robertson Meek and American Petrofina Foundation Centennial Professor of Chemical Engineering.

Dr. Freeman earned his Ph.D. in Chemical Engineering from the University of California, Berkeley. Prior to that, he received a B.S. degree in Chemical Engineering, Summa Cum Laude, at North Carolina State University. He was a NATO Postdoctoral Fellow for nearly 2 years at the Ecole Supérieure de Physique et de Chimie Industrielles de la Ville de Paris (ESPCI).

Dr. Freeman's research concerns membrane materials science and technology, focusing on mass transport of small molecules in polymer coatings. He and his students and colleagues have studied structure/property relations for polymer based desalination as well as gas and vapor separation membrane coating materials, new polymer membrane materials for hydrogen separation and natural gas purification, polymer based barrier packaging materials and new polymer coatings for improving fouling resistance of liquid separation membranes.

Dr. Freeman will receive the Tess Award from Dr. David Schiraldi, 2012 Chair of the PMSE Division, on Monday, August 20, 2012 during the 244th National Meeting of the ACS in Philadelphia, PA. Dr. Freeman will present an Award Address at that time. For more details including a full biosketch, click [here](#).

2011 PMSE Election Results

The PMSE division holds elections every Fall to elect councilors / alternate councilors and members-at-large. In the Fall of 2011, we held our first all-electronic election. Member response to the e-ballot process has been overwhelmingly positive. Thank you to all members who voted! Below are the election results:

2012-2014 Councilors:

David Lohse
Dean Webster

tax-deductible.

Nominations sought

PMSE is seeking nominations for the 2013 Roy W. Tess Award in Coatings. This award, of \$3000 and a plaque, will be presented on September 9, 2013 at the 246th National ACS Meeting in Indianapolis, In.

This major award, which recognizes outstanding individual achievements and noteworthy contributions to coatings science, technology, and engineering, confirms PMSE's long-standing and continuing support and dedication to excellence in the coatings field.

Nominations will be welcomed from all segments of industry, academia and government. Please contact Theodore Provder, Tess Award Chairman at: 5645A Emerald Ridge Parkway, Solon, OH 44139 to obtain nomination criteria; details sought will include patents, publications and over-all qualifications. All finalized nominations should be submitted prior to **September 1, 2012**, although nominations received after that date will be considered for the succeeding year's award. A submitted nomination is viable for four years.

For more information please contact [Theodore Provder](#)

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We want to hear from you!

2012-2014 Alternate Councilors:

Charles Carraher
Anthony Dias

2012-2013 Members-at-Large:

Lisa S. Baugh
Tim Bunning
Kevin Cavicchi
Victoria Gelling
John Gilmer
Mike Hickner
LaShanda Korley
Leslie Sperling

Are you part of a PMSE student chapter? Share news of your chapter's activities with the PMSE community! [Contact us](#) with a writeup.

Congratulations to the winners!

This email is being sent to you as you are a member of the ACS Polymeric Materials: Science and Engineering division. If you do not wish to receive these newsletters, please use the link below to unsubscribe.

