



SCACS NEWSLETTER

South Carolina Section of the American Chemical Society

WEBSITE: WWW.SC-ACS.ORG

OCTOBER 2009



**SOUTH CAROLINA SECTION MEETING
TUESDAY, OCTOBER 13, 2009
PRESIDENT'S DINING ROOM
IN THE IRVIN DINING HALL
FRANCIS MARION UNIVERSITY
FLORENCE, SC**

SEE DIRECTIONS ON PAGE 2

INVITE-A-FRIEND SPECIAL

If an ACS Section member brings a member who did not attend a meeting in 2008, then both will receive half-price meals. Both must pre-register to qualify for this special offer.

SOCIAL HOUR

5:30 – 6:20 p.m.

**SPONSOR: IRIX PHARMACEUTICALS
Florence, SC**

DINNER

6:20 – 7:10 p.m.

Roasted Pork Loin with Rosemary
Chicken Marsala
Potatoes AuGratin, Steamed Asparagus
Carrot Cake, Fresh Fruit Salad, Beverage

REGISTRATION COST INCLUDES SOCIAL HOUR AND DINNER

\$20.00: ACS Members and Other Professionals

\$10.00: Students and Student Affiliates

Free: Active High School Chemistry Teachers

REGISTRATION DEADLINE NOON, FRIDAY, OCTOBER 9, 2009

CONTACT: DR. KEN WILLIAMS

Department of Chemistry
Francis Marion University
Phone: 843-661-1447
FAX: 843-661-1440
email: kwilliams@fmarion.edu

INDUSTRIAL SPEAKER (TBA)

7:10 – 7:20 p.m.

FEATURED SPEAKER

Dr. LeRoy "Pete" Peterson, Jr.

7:20 – 8:15 p.m.

FEATURED SPEAKER

Dr. LeRoy "Pete" Peterson, Jr.

7:20 – 8:15 p.m.

Dr. Peterson is a Professor of Chemistry at Francis Marion University, where he has been since 1990. He is married to Regina M. Peterson and they have four children.

After graduating from Wilson High School in 1977, he enlisted in the U. S. Army, where he served three years in the 82nd Airborne Division. He later served eight more years in the U.S. Army Reserve as a Chemical Operations Specialist.

Dr. Peterson earned his B. S. degree in 1984 from Francis Marion University. He then went on to earn his Ph.D. in physical-inorganic chemistry from the University of South Carolina, where his research dealt with the crystal structures and solid state Cd-113 NMR of cadmium complexes under the direction of Professor E. L. Amma and Dr. E. H. Griffith. His current research interest focuses on the synthesis and characterization of metal organic frameworks.

In addition to teaching and research responsibilities, Pete is very active in service to Francis Marion and the Pee Dee Region. At Francis Marion he serves on various committees and is campus advisor to several sororities and fraternities. He also serves on the Board of Directors for the Boys and Girls Club of the Pee Dee Area, as well as the Wilson High School Class of 1966 Foundation.

He is a member of the American Chemical Society, the South Carolina Academy of Science, the Omicron Delta Kappa Leadership Honor Society, and the Phi Kappa Phi Honor Society. His honors and recognitions include the J. Bouknight Teaching Assistant Award For Excellence; the Service to Youth Award from the Boys and Girls Club of the Pee Dee; the FMU Faculty Award for Service; FMU Award for Excellence in Research and Scholarship; the establishment of the Peterson Scholarship; and recognition as mentor of the student who won the 2008 South Carolina Academy of Science/Sigma Xi Outstanding Undergraduate Research Award.

Pete extends a great debt of gratitude to his wife Regina Peterson, his past department chairman Dr. W. H. "Jack" Breazeale, Jr., and research mentor Dr. Hans-Conrad zur Loye for their support throughout his professional career.

Dr. Peterson's presentation is entitled: **"A Joint Undergraduate and Graduate Venture into the MOFs of Carboxylates, Halometallates, and Aminophosphonates."**

Abstract of talk: Metal organic frameworks (MOFs) built from carboxylates, halometallates, or aminophosphonates are of current interest due in part to their intriguing structures and their potentially useful properties. Our work on the synthesis and characterization of such materials will be described in this talk. Special emphasis will be placed on the nuts and bolts of undergraduate research as well as the broader impact of this project. Financial support from the National Science Foundation, awards CHE-0314164 and CHE-0315152, is gratefully acknowledged.

DIRECTIONS TO FRANCIS MARION UNIVERSITY, FLORENCE, SC

Upon arriving at FMU Campus, ask directions to Ervin Dining Hall. Park in the lot adjacent to the Dining Hall.

- From Columbia and points west: I-20 east to I-95; I-95 north to Exit 170 (SC-327).
SC-327 south 5 miles to US-76 and US-301.
US-76 and US-301 east 2 miles to FMU Campus on the right.
- From Orangeburg and vicinity : US-301 north to I-95; I-95 north to Exit 170 (SC-327).
SC-327 south 5 miles to US-76 and US-301.
US-76 and US-301 east 2 miles to FMU Campus on the right.
- From Myrtle Beach and vicinity: US-501 north to Junction of SC-576 (near Marion).
SC-576 west 3 miles to US-76.
US-76 west 13 miles to FMU Campus pm the left.
- From Charleston via Interstate: I-26 west to I-95; I-95 north to Exit 170 (SC-327).
(150 miles approximately) SC-327 south 5 miles to US-76 and US-301.
US-76 and US-301 east 2 miles to FMU Campus on the right.
- From Charleston via Georgetown: US-17 north to Georgetown.
(130 miles approximately) SC-51 north 56 miles through Oatland, Rhems, Hemingway, Johnsonville,
Kingsburg, Pamplico, and Hyman to Evergreen, SC and Junction of SC-327.
SC-327 north 11 miles to FMU Campus on the right.
- From Charleston via Moncks Corner: US-52 north through Goose Creek, Moncks Corner, Bonneau,
(120 miles approximately) St. Stephen, Kingstree, Lake City, and Coward to Effingham, SC
and Junction of SC-327.
SC-327 north 16 miles to FMU Campus on the right.

ANNOUNCEMENTS



Sondra F. Wieland

The Executive Committee is proud to announce that **SONDRA F. WIELAND**, the chemistry teacher at **Heathwood Hall Episcopal School**, has received the **2009 ACS Division of Chemical Education Southeast Region Award for Excellence in High School Teaching**. Sondra will be honored and will receive the award at the Southeast Region Meeting of the American Chemical Society (SERMACS) in San Juan, Puerto Rico during the week of October 19, 2009. This prestigious award recognizes Sondra's "twenty years of creative chemical education outreach activities involving students and teachers at all academic levels."

In her classroom she employs a variety of instructional techniques such as Socratic Questioning, hands-on activities, interactive learning, independent research and inquiry learning to challenge her students to become critical thinkers. Students are continually investigating, experimenting, questioning and drawing conclusions from the multitude of opportunities to explore the wonders of chemistry as well as

to build their understanding of scientific principles on concrete foundations. Sondra strongly believes that effective teaching occurs, not through dictation, but by providing students with the means to discover scientific principles through their own experiences.

Outside the classroom, she has been a stalwart supporter of the South Carolina Junior Academy of Science; has been a perennial presenter of hands-on activities for students in the South Carolina Middle/Elementary Academy of Science; and has conducted National Chemistry Week Activities on behalf of the South Carolina Section for many years for students, teachers and the general public at numerous venues including shopping malls and the EdVenture Children's Exploratory Museum in Columbia. Through this achievement Sondra has brought honor not only to herself and her school but also to the South Carolina Section. Congratulations, Sondra, and thank you for many years of dedicated service to spreading the joy of chemistry in particular and science in general among America's youth.

ANNOUNCEMENTS, continued

1. THE SECTION IS ISSUING THE CALL FOR NOMINATIONS FOR THE FOLLOWING 2010 AWARDS:**Outstanding South Carolina Chemist: NOMINATION DEADLINE IS DECEMBER 1, 2009.**

Send nomination and supporting documents to:

Dr. William H. Breazeale, Jr., 715 High Battery Circle, Mount Pleasant, SC 29464

Daniel J. Antion Outstanding High School Chemistry Teacher: NOMINATION DEADLINE IS DECEMBER 1, 2009.

Send nomination form (included in this Newsletter) to:

Dr. Scott R. Goode, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC 29208

Distinguished Service to the Section: NOMINATION DEADLINE IS DECEMBER 1, 2009.

Send nomination and supporting documents to:

Dr. Daniel J. Antion, 135 Deliesseline Drive, Cayce, SC 29033

Outstanding Senior Undergraduate Chemistry Majors: NOMINATION DEADLINE IS MARCH 1, 2010.

Colleges/Universities within the South Carolina Section send nomination form (included in this Newsletter) to:

Dr. James P. Deavor, Dept. of Chemistry and Biochemistry, College of Charleston, Charleston, SC 29424

Phone: 843-953-5587 FAX: 843-953-1404 email: deavorj@cofc.edu

2. The South Carolina Section is participating in a special program sponsored by Merck and Company whereby Merck will provide the Section with a number of current Merck Indexes to be awarded as prizes to students and teachers. Dr. Antion, Secretary-Treasurer of the Section, is scheduled to receive the shipment of indexes in the fall 2009.

3. The South Carolina Section has teamed up again with the South Carolina Association of Chemistry Teachers (SCACT) to co-sponsor the 2009-2010 National Chemistry Week Poster Contest in Grades K-12. The Theme for this year's NCW is "It's All Elemental." Posters will be solicited, received and judged by SCACT and the winners will be invited to both the SCACT annual spring 2010 meeting and the Section Awards meeting in April 2010. Cash prizes and certificates will be awarded.

4. The South Carolina Section is sponsoring a program of chemical activities at the EdVenture Children's Exploratory Museum in Columbia to celebrate National Chemistry Week during October 19-24. Sondra Wieland will be organizing and coordinating the program including training high school teachers and students from the Columbia to conduct the activities in the Museum.

5. The Northeastern Section of the ACS has issued a Call for Nominations for the **Gustavus John Esselen Award for Chemistry in the Public Interest**. The award recognizes a chemist for outstanding achievement in scientific and technical work that contributes to the public well being. The award consists of a \$5000 prize and a medal of recognition. Deadline for nominations is October 15, 2009. Further information is available at www.nesacs.org.

6. There is a national movement afoot to issue a United States Commemorative Stamp honoring the **2011 International Year of Chemistry**. At South Carolina Section meetings in 2009 and 2010 a petition will be circulated to gather signatures to support the issuance of the commemorative stamp. **Ray McAfee** will be the point person for this project.

7. The National ACS offers mini grants up to \$500 through a program, **Equipping the 2015 Chemical Technology Workforce**. Successful proposals bring together industry, academia and the community for the education and professional development of applied chemical technology professionals. Visit www.acs.org/cta, call 1-800-227-5558 ext. 6108, or email cta@acs for information about the program. The deadline for the next round of mini-grants is Thursday, February 11, 2010.

8. THE BALLOT FOR ELECTION OF OFFICERS FOR 2010 IS ENCLOSED. DEADLINE IS NOVEMBER 15, 2009.
PLEASE VOTE FOR A LARGE TURNOUT.

**SOUTH CAROLINA SECTION
OF THE
AMERICAN CHEMICAL SOCIETY**

NOMINATION
FOR THE

OUTSTANDING SENIOR UNDERGRADUATE CHEMISTRY MAJOR AWARD

College or University _____

Nominee _____
(Please print. Use name to be shown on award certificate)

Permanent Mailing Address of Nominee _____

Grade Point Average _____ (Minimum of 3.5) Major: Chemistry or Biochemistry (Circle one)

Faculty Sponsor _____
(Faculty member who will attend Awards Meeting to introduce the student)

Sponsor Telephone Number _____ Sponsor email Address _____

DEADLINE FOR NOMINATION AND RECEIPT OF THIS FORM IS MARCH 1, 2010.

Mail this completed form via email, fax or US mail to

Dr. James P. Deavor
Department of Chemistry and Biochemistry
College of Charleston
Charleston, SC 29424
FAX: 843-953-1404
email: deavorj@cofc.edu

THE AWARD CEREMONY IS SCHEDULED IN APRIL 2010

Colleges and Universities in the following 29 South Carolina counties may submit nominations for this award.

Allendale	Bamberg	Beaufort	Berkeley	Calhoun	Charleston
Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon
Dorchester	Fairfield	Florence	Georgetown	Hampton	Horry
Jasper	Kershaw	Lancaster	Lee	Lexington	Marion
Marlboro	Orangeburg	Richland	Sumter	Williamsburg	



SOUTH CAROLINA SECTION
OF THE
AMERICAN CHEMICAL SOCIETY



CALL FOR NOMINATIONS FOR

THE DANIEL J. ANTION OUTSTANDING HIGH SCHOOL CHEMISTRY TEACHER OF THE YEAR

TO: Principals, Superintendents, Science Department Heads, and Science Supervisors

The South Carolina Section of the American Chemical Society (SCACS) is accepting nominations for the 2010 Daniel J. Antion Outstanding High School Chemistry Teacher of the Year.

The award consists of a cash prize and a citation recognizing the outstanding achievements of the Chemistry Teacher who best (1) exemplifies effectiveness in the classroom; (2) enriches and stimulates the scientific curiosity of young people; and (3) has an extraordinary record of professional self development.

The awardee will be honored at the annual spring 2010 meeting of the South Carolina Section of the American Chemical Society in the Columbia area.

Nominations will be accepted from scientists, principals, superintendents, science supervisors, science department heads, and teaching colleagues of the candidate as well as parents of students and former students who have graduated from high school. Nominations from currently enrolled high school students cannot be accepted.

Nominees must have at least 10 years of teaching experience, including at least 5 years of chemistry teaching. Nominees must be currently teaching chemistry as one of their subjects.

Completing and mailing the nomination form on the reverse side of this letter will start the process. Nominees will then be asked to provide biographical information as well as to solicit two confidential recommendations for the Awards Committee.

DEADLINE FOR RECEIPT OF NOMINATIONS IS DECEMBER 1, 2009

Please return this Nomination **BEFORE DECEMBER 1, 2009** to:

Dr. Scott R. Goode
Department of Chemistry and Biochemistry
University of South Carolina
Columbia, SC 29208

BOTH SIDES OF THIS FORM MAY BE DUPLICATED AND DISTRIBUTED

SOUTH CAROLINA SECTION
OF THE
AMERICAN CHEMICAL SOCIETY

ELECTION OF OFFICERS FOR THE 2010 CALENDAR YEAR

THE TEAR-OFF BALLOT BELOW MUST BE RETURNED BY NOVEMBER 15, 2009

INSTRUCTIONS FOR VOTING

The offices to be filled are Chair-Elect, Secretary-Treasurer, One (1) Councilor and Two (2) Alternate Councilors.

To vote, mark an "X" or "Check Mark" on the line in front of your choice for each office. Write-in votes will be accepted.

**Mail your ballot
by NOVEMBER 15, 2009 to**

**Ms. Sondra F. Wieland
SCACS ELECTION TELLER
P.O. Box 1566
West Columbia, SC 29033-1000**

THANK YOU FOR VOTING IN OUR SECTION ELECTION FOR 2010

_____ Cut along this line _____

_____ Cut along this line _____

SOUTH CAROLINA SECTION
OF THE
AMERICAN CHEMICAL SOCIETY

VOTE FOR ONE IN EACH OFFICE

To vote, mark an "X" or "Check Mark" on the line in front of your choice for each office. Write-in votes will be accepted.

Office and term

CHAIR-ELECT
(1Jan10-31Dec10)

Nominee and Affiliation

____ E. Ray McAfee (President of Technology & Manufacturing, Carolina Specialty
Chemicals LLC, Blythewood, SC)

SECRETARY-TREASURER:
(1Jan10-31Dec10)

____ James P. Deavor (Professor, College of Charleston, Charleston, SC)

COUNCILOR
(1Jan10-31Dec 12)

____ Scott R. Goode (Professor, University of South Carolina, Columbia, SC)

ALTERNATE COUNCILOR
1Jan10-31Dec12)

____ Daniel J. Antion (Retired, University of South Carolina, Columaia, SC)

ALTERNATE COUNCILOR
1Jan10-31Dec10)

____ Kenneth B. Williams (Professor, Francis Marion University, Florence, SC)

NOTE: Angela Peters (Claflin University) is current Chair-Elect and will succeed to the office of Chair on January 1, 2010.

**Mail your ballot
by November 15, 2009 to**

**Ms. Sondra F. Wieland
SC ACS Election Teller
P.O. Box 1566
West Columbia, SC 29033-1000**

AMERICAN CHEMICAL SOCIETY

SOUTH CAROLINA SECTION
DR. DANIEL J. ANTION, SEC-TREAS
135 DELIESSLINE DRIVE
CAYCE, SC 29033-4357

FIRST-CLASS MAIL
U.S. POSTAGE PAID
COLUMBIA, SC
PERMIT 634

RETURN SERVICE REQUESTED

Address Label

OFFICERS AND EXECUTIVE COMMITTEE OF THE SOUTH CAROLINA SECTION (2009 CALENDAR YEAR)

Terms of office are for one (1) year beginning 1 January 2009 and ending 31 December 2009, except where indicated.

CHAIRMAN: E. RAY MCAFEE, P.O. Box 766, Blythewood, SC 29016-0766
V: 803-691-8144 Cell: 803-240-6652 email: raymcafee@live.com

CHAIR – ELECT: ANGELA PETERS, Dept of Chemistry, Claflin University, Orangeburg, SC 29115
V: 803-535-5447 FX: 803-535-5776 email: angela.peters@claflin.edu

SECRETARY-TREASURER: DANIEL J. ANTION, 135 Deliesseline Drive. Cayce, SC 29033
V: 803-796-7428 email: dan_antion@yahoo.com

COUNCILOR : WILLIAM H. BREAZEAL, JR., 715 High Battery Circle, Mt. Pleasant, SC 29464
V: 843-884-6939 FX: 843-953-1404 email: breazealew@cofc.edu Term: 1 Jan 08 – 31 Dec 10

COUNCILOR : SCOTT R. GOODE, Dept of Chem and Biochem, Univ of SC, Columbia, SC 29208
V: 803-777-2601 FX: 803-777-9521 email: goode@sc.edu Term: 1 Jan 07 – 31 Dec 09

ALT COUNCILOR: JAMES P. DEAVOR, Dept of Chem and Biochem, Coll of Charleston, Charleston, SC 29424
V: 843-953-5587 FX: 843-953-1404 email: deavorj@cofc.edu Term: 1 Jan 07 – 31 Dec 09

ALT COUNCILOR : Vacant 1 Jan 09 – 31 Dec 10

PAST CHAIRMAN: KENNETH B. WILLIAMS, Dept of Chemistry, Francis Marion University, Florence, SC 29501
V: 843-661-1447 FAX: 843-661-1440 email: kwilliams@fmarion.edu