



SCACS NEWSLETTER

South Carolina Section of the American Chemical Society
WEBSITE: WWW.SC-ACS.ORG
MARCH 2008



**SOUTH CAROLINA SECTION MEETING
MONDAY, MARCH 24, 2008
COLLEGE OF CHARLESTON
CHARLESTON, SC**

SEE DIRECTIONS ON PAGE 2

**SOCIAL HOUR AND DINNER WILL BE AT
BLACKLOCK HOUSE
18 BULL STREET**

5:00 – 5:45 p.m.
CAMARADERIE AND SOCIAL HOUR

5.45 – 6:45 p.m.
DINNER
House Salad
Chicken Breast stuffed with Wild Rice
and Sun Dried Tomato Chutney
Bowtie Pasta, Green Beans, Cheesecake

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

RESERVATION DEADLINE
12:00 NOON WEDNESDAY MARCH 19, 2008
CONTACT: JENNIFER NEAL
Phone: 843-953-1406
email: nealje@cofc.edu

**BUSINESS MEETING AND GUEST SPEAKERS
WILL BE IN
ROOM 317 HOLLINGS SCIENCE CENTER
58 COMING STREET**

7:00 – 7:15 p.m.
GUEST INDUSTRIAL SPEAKER (TBA)

7:15 – 8:00 p.m.
FEATURED SPEAKER
DR. MIKE ANGEL
Department of Chemistry and Biochemistry
University of South Carolina

Note: Section meetings are open to the public as well as to students, teachers and other interested professionals. If an individual ONLY desires to hear the speaker's presentation, it is not necessary to make reservations for the Dinner and/or the Social Hour. Individuals who attend the Social Hour and/or the Dinner are obligated to pay the amount listed under SOCIAL HOUR AND DINNER RESERVATIONS

GUEST SPEAKER

Dr. Mike Angel
Fred M. Weissman Palmetto Professor
of Chemical Ecology
University of South Carolina

Mike Angel earned the B.S. degree in Chemistry in 1979 at North Carolina State University in Raleigh, NC. He stayed on at North Carolina State University to pursue the Ph.D. in Analytical Chemistry that was awarded in 1984.

Dr. Angel accepted a post-doctoral appointment in Analytical Spectroscopy with Tomas Hirschfeld at Lawrence Livermore National Laboratory in Livermore, California for the 1985-86 year. During the next three years he was employed as Environmental Scientist in the Environmental Sciences Division of the Lawrence Livermore National Lab. In 1989 he rose to the position of Group Leader of the Advanced Measurement Sciences Group of the Environmental Sciences Division at Livermore, a post he held through 1993.

In the fall of 1993, Dr. Angel was appointed Associate Professor of Chemistry at the University of South Carolina in Columbia. He was promoted to full Professor in 2001. Subsequently he was awarded the Fred M. Weissman Palmetto Chair in Chemical Ecology in 2004.

Professor Angel's research interests include the Optical Instrumentation for Remote and In-situ Measurements and Sensing. Raman, SERS, LIBS, REMPI, fluorescence and optical chemical sensors. He has published more than 120 research papers in refereed journals and has presented more than 45 invited talks at professional conferences. Since arriving at the University of South Carolina, he has supervised to completion the dissertations of 13 doctoral students.

Dr. Angel has served on the A-Page Advisory Panel for Analytical Chemistry and the Advisory Board of *TALANTA*. He is a regular reviewer for the National Science Foundation, the Department of Energy and the Department of Defense for the journals Analytical Chemistry, Applied Spectroscopy and Applied Optics. He also has served on review committees and panels including the National Science Foundation, Environmental Protection Agency, Department of Energy, Department of Defense and NASA and is a consultant on several projects at Lawrence Livermore National Laboratory.

Professor Angel's presentation is entitled: *Issues Related To Standoff Raman And Laser-Induced Breakdown Spectroscopy*.
ABSTRACT: Standoff spectroscopy is being developed for a variety of oceanographic, geological, planetary, defense, and environmental applications. In these cases non-contact analysis is desired for reasons of safety, speed, better data quality, or out of necessity. In this talk the development of instruments for stand-off Raman and Laser-Induced Breakdown Spectroscopy will be described and issues related to stand-off detection will be discussed.

ANNOUNCEMENTS

1. Members and guests who attended the February 8 Section meeting in Columbia were treated to an outstanding presentation on the history and uses of "Chocolate – Food of the Gods" by Dr. Howard Peters. Dr Peters brought samples of raw materials and products involved in the manufacture of chocolate for attendees to taste and test. Lisa Gantt won the door prize of a ten-pound bar of chocolate.

The industrial speaker for the evening was John Ernst of Lindau Chemicals Company. Mr. Ernst, who oversees new product development and quality control, informed the group of the many products manufactured by Lindau.

2. The South Carolina Section extends condolences to the family of H. D. Reese Page, who passed away February 12 in Hartsville after an extended illness. Dr. Antion, Secretary-Treasurer of the Section, represented the Section by attending services at the First Baptist Church of Hartsville as an honorary pallbearer. Interment was at Magnolia Cemetery in Hartsville on February 15.

3. Directions to March 24 Meeting of the South Carolina Section in Charleston.

DRIVING TO COLLEGE OF CHARLESTON

Drive on I-26 East to EXIT 221B (Meeting Street/visitors Center exit).
From the exit ramp turn RIGHT onto MEETING STREET.
Travel on Meeting Street approximately 1 mile crossing CALHOUN STREET.
At the FIRST TRAFFIC LIGHT past Calhoun Street, turn RIGHT (WEST) onto GEORGE STREET.
At the SECOND TRAFFIC LIGHT on George Street, turn LEFT (SOUTH) onto St. PHILLIPS STREET.
Park in the PARKING GARAGE on the LEFT.

WALKING TO BLACKLOCK HOUSE AT 18 BULL STREET FROM PARKING GARAGE

SOCIAL HOUR AND DINNER
WALK from the Parking Garage WEST on GEORGE STREET for 2 BLOCKS to COMING STREET.
(NOTICE THAT THE HOLLINGS SCIENCE CENTER IS AT THE CORNER OF GEORGE AND COMING STREETS.)
Turn RIGHT (NORTH) on COMING STREET for 1 BLOCK to BULL STREET.
Turn LEFT (WEST) on BULL STREET to BLACKLOCK HOUSE.

WALKING TO HOLLINGS SCIENCE CENTER AFTER DINNER

After Dinner, retrace steps back to HOLLINGS SCIENCE CENTER at corner of COMING AND GEORGE STREETS. BUSINESS MEETING and SPEAKERS will be in ROOM 317.

4. The ANNUAL AWARDS meeting will be on Friday, April 25 in Orangeburg at Claflin University.

5. CALL FOR NOMINATIONS FOR THE OUTSTANDING SENIOR UNDERGRADUATE CHEMISTRY MAJOR.

The South Carolina Section of the American Chemical Society annually presents an Undergraduate Chemistry Major Award to the outstanding senior of each chemistry department in the South Carolina Section. Each institution is permitted to nominate one student from their institution to receive the award. The requirements are that the student must be a senior biochemistry or chemistry major and have a **minimum cumulative GPR of 3.5**. Each institution may determine its own procedure for selecting its nominee.

Each student will be recognized at the awards meeting of the Section which is scheduled for Friday April 25, 2008 at Claflin University in Orangeburg. The student will be the guest of the section at the banquet. The faculty member accompanying the student should be prepared to introduce the student. Each honoree will receive a current Merck Index embossed with his/her name. Each institution should submit the enclosed Nomination Form no later than noon Friday March 28, 2008. This deadline is necessary in order to provide information to Merck in time to print the students' names on the Index. Send the completed Nomination Form by Fax email or US mail and direct all inquiries to

Dr. James P. Deavor
Department of Chemistry and Biochemistry
College of Charleston
Charleston, SC 29424-0001
Fax : 843-953-1404
email: deavorj@cofc.edu

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

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OFFICERS AND EXECUTIVE COMMITTEE OF THE SOUTH CAROLINA SECTION (2008 CALENDAR YEAR)

Terms of office are for one (1) year beginning 1 January 2008 and ending 31 December 2008, except where otherwise indicated.

CHAIRMAN - KEN WILLIAMS, Dept of Chemistry, Francis Marion Univ, Florence, SC 29501
V: 843-661-1447 FAX: 843-TBA email: kwilliams@fmarion.edu

CHAIRMAN – ELECT - E. RAY MCAFEE, P.O. Box 766, Blythewood, SC 29016-0766
V: 803-691-8144 (H) V: 803-333-9349 (O) FX: 803-333-9350 (O) email: ray.mcafee@rheinchemie.com

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

COUNCILOR – WILLIAM H. BREAZEALE, 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

ALT COUNCILOR – ANGELA PETERS, Dept of Chemistry, Claflin University, Orangeburg, SC 29115
V: 803-535-5447 FX: 803-535-5776 email: angela.peters@claflin.edu Term: 1 Jan08 – 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