

The CSRA Chemist

Savannah River Section
of the

American Chemical Society

Vol. 45



No. 7

Upcoming...

Tuesday, Jan 7 '03, 6:30p.m., Drs. Paul and Brenda Cohen, 'America's Scientific Treasures', USC-Aiken Campus, Business & Education Building (Located in between the Etherredge Center and the Ruth Patrick Science Center), Aiken, SC
(See inside for details)

Wednesday, Feb 5 '03, 6:30p.m., Dr. Joe A Vinson, 'Chemistry and Biochemistry of Chocolate: A Guilt-Free Food?', Damons - The Place for Ribs, 3064 Washington Rd, Augusta, GA
(See inside for details)

...mark your calendar

Calendar of Events -- 2003

January 7 '03, Tuesday 6:30p.m., Drs. Paul and Brenda Cohen, 'America's Scientific Treasures', USC-Aiken

February 5 '03, Wednesday 6:30p.m., Dr. Joe A Vinson, 'Chemistry and Biochemistry of Chocolate: A Guilt-Free Food?', Damons, Augusta, GA

March Chemical Jeopardy, USCA - Etherredge Center, Aiken (Date/Time TBD)

April/May, Picnic with AIChE and ASME, TBD

September/October, ACS Speaker TBD

October '03 SEED, USC-Aiken, Aiken

October '03 CSRA College Night, TBD October '03 National Chemistry Week,

November '03 Awards, Wine Tasting, North Augusta

Section Contacts - 2003

Position	Name	Email	Work Phone
Chair	Tom White	thomas02.white@srs.gov	(803) 725-1963
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Public Relations	OPEN		
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Olympiad Co-chair	Cathy Cobb	ccobb@aug.edu	(803) 642-7125
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JANUARY 7, 2003 INFO:

Tuesday, Jan 7 '03, 6:30p.m., Drs. Paul and Brenda Cohen, 'America's Scientific Treasures', USC-Aiken Campus, Business & Education Building (Located in between the Etherredge Center and the Ruth Patrick Science Center), Aiken, SC

THIS and the February Meetings are GOOD MEETINGS TO BRING A SPOUSE, friend, or just someone interested in chemistry.

Please call: 725-2605, [Glenda Blystone] to make a reservation

Speaker:

Drs. Paul and Brenda Cohen

The College of New Jersey

Department of Chemistry

Ewing, NJ 08628-0718

Email: cohenp@tcnj.edu

Title

America's Scientific Treasures

Abstract

In a friendly and entertaining style, the Cohens describe a wide variety of unique places to visit as described in their book America's Scientific Treasures, published by the American Chemical Society. These sites are drawn from throughout the United States and focus on science and technology suitable for adult science lovers. Among the attractions are museums highlighting various aspects of science and technology, homes of famous scientists, unusual geological formations, botanical gardens, zoos, and much more. The presentation can be tailored to the audience, from the generalist to the scientist.

Audience Level

Chemists, Students, General (nontechnical)

Categories

Chemical Education

General Public

General Science

History of Chemistry

FEBRUARY 5, 2002 INFO:

Wednesday, Feb 5 '03, 6:30p.m., Dr. Joe A Vinson, 'Chemistry and Biochemistry of Chocolate: A Guilt-Free Food?', Damons - The Place for Ribs, 3064 Washington Rd, Augusta, GA

Speaker Detail

Dr. Joe A. Vinson

The University of Scranton

Department of Chemistry

Scranton, PA 18510-4626

Email vinson@uofs.edu

Talks

A Scientific Look at Marijuana

Analysis of Cannabinoids in Physiological Fluids

Biochemical Role of Cholesterol — Good Guy or Bad Guy?

Chemistry and Biochemistry of Chocolate: A Guilt-Free Food?

Drug Screening in Physiological Samples: An Olympian Task

The Chemistry of Marijuana in Humans

Abstract

Food and beverages derived from cocoa beans have been consumed by humans for 1500 years, and the beverage was originally used as currency and in religious rites by the Mayans and Aztecs. A short history of chocolate will give some perspective to the science of chocolate. Cocoa pods from the cacao tree *Theobroma cacao* are harvested and the beans removed from the pods and fermented. Dried and roasted beans contain about 300 chemicals including unique fats, alkaloids, and simple and complex polyphenols. The manufacturing process results in the production of the various types of chocolate including white chocolate, milk chocolate, dark chocolate, and cocoa powder. Chocolate is purported to have aphrodisiac properties and one ingredient acts on the cannabinoid (marijuana) receptor. Chocolate's antioxidant properties will be outlined and compared with other foods. How chocolate's fat and antioxidants are related to heart disease will be discussed in terms of epidemiological, animal, human supplementation, and mechanistic studies. Recent animal and human studies will be described to determine whether chocolate should be considered a guilt-free food.

SECTION NEWS

The Section won the bid to host the 2006 Southeastern Regional Meeting of the American Chemical Society. The tentative date is Oct 29- Nov 2. The location will be the Augusta Riverwalk Hotels. Chris Bannochie will be the General Chair and Tom Crute the Program Chair for SERMACS'06. Expect to hear more in the next few months as planning begins. The Section will start to celebrate its 50 year that fall.

The following agenda was covered at the December 5 executive meeting.

Agenda:

- 2002 Treasurer's Summary (Eric Zucherman)-Year-end balance, investment performance, changes or improvements.
- Other 2002 items-annual report, etc.
- Discuss 2003 goals (Tom White, all)
- SERMACS-(Chris Bannochie, Tom Crute, Jessica Coughlin)
 - How the bid went.
 - What is needed in 2003?
 - How we keep this venture profitable and successful?
- 2003 Budget
 - Income-allotments, local dues, etc.
 - Events-speakers (Charles Crawford), activities, etc.
 - TAG?
 - Career (Tom Crute)
 - Newsletter (Bill Spencer)
 - Travel (Charles to leadership conference)
 - Investments (Eric)
 - Awards-DCA, College Night, etc.
 - National Chemistry week (Bill Trummell)
 - Website (Jessica Coughlin)
 - Public Relations
 - Other-Chemistry Olympiad, Minority Affairs
- Other topics
 - Industry relations, new members, next executive meeting, misc., etc.

The section has \$9,543.40 in come for the year. The section had spent \$4,991.39 by Oct 1. Several tour bills are still to be paid. The FY2003 budget is similar. Investments lost \$1264.

CHEMJOB LAUNCHES FEB. 10,
2003

Chemical & Engineering News Classifieds & Careers Online (Chemjobs) will launch on February 10, 2003. This new "one-stop career shop" combines the features of Jobspectrum.org—for example, resume posting—with the C&EN online classified ads to provide career resources for both job-seekers and employers. ACS members will be able to view the most recent C&EN classified ads that appeared in the print version of the magazine; non-members will be able to view them after two weeks. Chemjobs will be the prime site for "quality jobs and quality chemists" to find each other. Chemjobs will also have an archive of useful career resource information and articles from C&EN and a direct link to ACS Department of Career Services. Stay tuned and log on Feb. 10: <http://www.chemjobs.org>

chemistry.org "Jeopardy" –
Part II

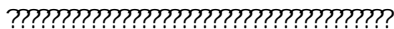
Feature: Molecule of the
Week (MOTW)



Jeopardy Answer #1:

This MOTW, a simple sugar, is the primary source of energy for all living creatures and is featured in a chemistry.org article on a new diagnostic technology for [insulin-dependent diabetics](#).

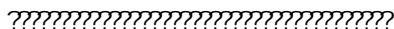
Jeopardy Question #1: What is
Glucose?



Jeopardy Answer #2:

This MOTW is an artificial tanning agent used in [sunless tanning](#) preparations. It can be prepared from glycerol by the bacterium *Acetobacter*.

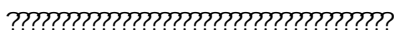
Jeopardy Question #2: What is
Dihydroxyacetone?



Jeopardy Answer #3:

The synthesis of this MOTW, an organometallic iron complex, has become a very popular experiment for inorganic laboratory courses. It is used as a fuel additive and a catalyst, but it also has current and potential biomedical, [nanotechnology](#), and electronics applications.

Jeopardy Question #3: What is
Ferrocene?



Jeopardy Answer #4:

This MOTW is a macrocyclic lactone antibiotic produced by a microorganism found in Easter Island's soil. This remarkable molecule was approved by the FDA for use as an immunosuppressant in 1999, and

THOUGHTS TO PONDER....

When you counsel someone, you should appear to be reminding him of something he had forgotten, not of the light he was unable to see.

—Baltasar Gracian

The best leaders are those most interested in surrounding themselves with assistants and associates smarter than they are.

—Amos Parrish

Facts do not cease to exist because they are ignored.

—Aldous Huxley

All who have accomplished great things have had a great aim, have fixed their gaze on a goal which was high, one which sometimes seemed impossible.

—Orison Swett Marden

I don't measure a man's success by how high he climbs but how high he bounces when he hits bottom.

—Gen. George S. Patton

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