

The Chemical Record

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Columbus Section of the American Chemical Society, Inc.

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Confectionery “Art” of Chocolate

Wednesday, December 12th, 2001

Come to our December meeting and listen to Dr. Whitfield Robbins of Nestle as he describes the process involved in chocolate production.

See page 4 for more details!

Directions: To get to Holiday Inn on the Lane: From SR 315 south, exit east at Lane Avenue. Go through the traffic light at the junction with Olentangy River Road. The Holiday Inn lies a short distance ahead on the left, opposite The Ohio State University.

A Message from the Chair...

This will be my last letter to you as Chair. As Chair-elect, and now Chair, I have had the opportunity to work with many dedicated individuals who have made my job both fun and easy. I can assure members that the Section is in good hands and is very well served by the office holders who are unstinting in their support of all the activities that the section engages. To all of them I express my gratitude.

On December 12th we are the hosts for our annual joint meeting with our sister organization for Chemical Engineers (the AIChE). The topic is the Chemistry of Chocolate making and I understand that there may be some “demonstration samples”; so come along! On December 6th we will also host a special meeting on the topic of "Terrorism Using Chemical and Biological Weapons". This will be topical and informative, and we hope many of you will join us.

Section News

From January, Sherry Hemmingsen will assume the Chair. I know that she will bring a high level of enthusiasm and energy to the position. If we all continue to work together, support her visions for the future, and foster good ideas, then good things will continue to happen in the life of the Section.

All best wishes for the holiday season

Aye!
Jimmy Cowan, Chair
(November 2001)

Synopsis of the minutes of the Executive Committee Meeting held on November 14th 2001

The meeting was also attended by Dr. James N. BeMiller, Purdue University, speaker for the evening meeting. Positive feedback was received concerning the activities organized for National Chemistry Week, chaired by Pat Woodward. Maria Rosenthal will submit a report on the NCW-activities to ACS.

The effort involved in preparing the current version of the Chemical Record was discussed and Jimmy Cowan noted that the present format is not the most efficient way of organizing and disseminating information in hard copy or electronic forms. This issue will again be discussed at the next meeting as well as other issues relating to web resources and electronic communication.

Upcoming events will include a lecture on Bioterrorism on December 6th. At the next monthly meeting on December 12th, Dr. Witfield Robbins will speak on the art and technology of chocolate-making. Steve Rosenthal mentioned that the ballots for the election of office bearers of the Section will be counted after November 25th.

Sherry Hemmingsen, Chair-Elect for 2002, announced that she is planning a meeting to

discuss various issues affecting the Section, and Jimmy Cowan said that time will also be set aside at the next meeting for an initial discussion of these topics.

BIOCHEMISTRY FACULTY POSITION

The ACS-approved Chemistry Department at Otterbein College, a four-year liberal arts institution in the greater Columbus area, invites applications for an assistant professor position, starting Fall 2002. The successful candidate will have a PHD in biochemistry, a strong commitment to undergraduate teaching, an ability to instruct general, biological, and occasionally organic chemistry, and participate in a general studies biochemistry course. Establishment of an externally funded research program is expected. Send letter of application, curriculum vitae, three current letters of reference, and statement of teaching philosophy and research interests to Dr. Patricia A. Frick, VP Academic Affairs, Otterbein College, One Otterbein College, Westerville, OH 43081. **DO NOT E-MAIL DR. FRICK.** E-mail applications, in care of sneal@otterbein.edu.

Review of complete applications will begin January 1, 2002 and continue until position is filled. For more information see www.otterbein.edu/dept/chem.
EOE/AA employer.

Section News

COURS 2001

The fourth annual Central Ohio Undergraduate Research Symposium (COURS) was held on November 3rd at Kenyon College. COURS showcases undergraduate research from local colleges and universities, and provides an opportunity for students to share their experiences with faculty members and each other. Seventeen students presented posters describing their research findings and fifty participants from eight colleges and universities attended the symposium.

Dr. Susan White from Bryn Mawr College gave the keynote presentation entitled "An RNA Odyssey." The quality of the research presented at COURS was excellent, and interactions between the participants made the symposium a rewarding event. The ACS-Columbus Section sponsored awards for outstanding poster presentations, and the award winners were:

Outstanding Poster: Catherine Beck and Dr. Wade Powell - Kenyon College; CLONING AND EVOLUTIONARY ANALYSIS OF TWO CDNAS ENCODING ARYL HYDRO-CARBON RECEPTORS (AHRs) IN XENOPUS LAEVIS

Runner Up: Margaret Hershberger - Ohio State University and Dr. A. Welford Castelman, Jr. - Pennsylvania State University; PUMP-PROBE STUDIES OF MIXED METHANOL-WATER CLUSTERS

Third Place: Abby Maranda and Dr. Sonya McKay - Denison University; DETERMINATION OF NEAREST NEIGHBOR EFFECTS ON THE CURRENT ASSIGNED RANDOM COIL VALUE OF ALANINE

A fourth award is select by students attending the symposium, and the recipients of this award were

Emily Cole and Dr. Scott Cummings - Kenyon College; PHOTOLUMINESCENT METAL

HYDROXYQUINOLINE COMPLEXES



COURS Keynote speaker Dr. Susan White

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Meeting #774

Wednesday, December 12th, 2001

Holiday Inn on the Lane, at OSU
328 West Lane Avenue,
Columbus, Ohio 43201
614-294-4848

5:30 PM Reception: fruit punch and pretzels.

6:00 PM Dinner: Tossed Garden Salad followed by entree selection from (1) Chicken Piccata with Roasted Redskin Potatoes, (2) Apple Roasted Porkloin with Cheddar Scalloped Potatoes, and (3) Eggplant Parmesan served with Linguini. All entrees also served with Green Beans w/Toasted Almonds. Followed by Chocolate Hazelnut Cake. Includes rolls, butter & standard beverages.

7:00 PM Lecture:

A Labor of Love - The Art and Technology of Making Chocolate”

Dr. Whitfield Robbins
Nestle Company

Cost: \$16.00. Emeritus members and unemployed members are \$14.00. Students are \$5.00. (The cost covers the price of dinner. If you cannot attend the dinner, please feel free to attend the program at 7:00 PM).

Reservations: Please phone Marcella Gibbs at 447-3600-x2721, or reserve online at www.acscolumbus.org by 3:00 PM Tue Dec 4th. Please indicate retired/unemployed/spouse/student status and affiliation when making reservations. To cancel a reservation, please call Marcella by 11:00 AM Wed Dec 5th. No cancellations can be accepted after that time. Uncancelled reservations must be paid. Members having more than two unpaid reservations will be required to cover meal costs in advance. Early reservations are appreciated.

Executive Meeting: A business meeting will be held at 4:30 PM on Wed Dec 12th at Chemical Abstracts. Any section member is welcome to attend the business meeting.

Directions: To get to Holiday Inn on the Lane: From SR 315 south, exit east at Lane Avenue. Go through the traffic light at the junction with Olentangy River Road. The Holiday Inn lies a short distance ahead on the left, opposite The Ohio State University.

About the Topic

Milk chocolate, as we know it today, is the result of centuries of evolution of products made from cocoa beans. Today's chocolate products are mostly the result of trial and error development -- confectionery "art". However, over the last few decades much research has gone into developing chemical and physical understanding of the changes that occur during the preparation of chocolate.

The presentation will describe equipment used to convert cocoa beans, milk, sugar, cocoa butter and various other ingredients into the rich, indulgent products that most of us enjoy. Also included will be a discussion of many of the chemical changes that occur from the time the cocoa bean is harvested until it is made into finished chocolate.

About the Speaker

Whit Robbins is a Senior Research Scientist (Chemist) with Nestle R&D, Inc. in Marysville, Ohio. He has worked in chocolate research for Nestle for over 35 years. The first 28 years he was located in Fulton, NY where Nestle has one of its largest chocolate factories. This experience afforded him a thorough opportunity to become familiar with all of the equipment in the factory. His work has included extensive understanding of the rheology of chocolate, the chemistry and physical chemistry of fat systems, the chemistry of chocolate flavor development.

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EOE

Section News

ACS Special Meeting "Terrorism Using Chemical and Biological Weapons".

Thursday Dec 6th 2001
Chemical Abstracts Service,
2540 Olentangy River Road,
Columbus, 43202
(tel: 614 447 3600)

5.00: Reception - coffee, soda, cookies

5.30: Presentation - "Terrorism Using Chemical and Biological Weapons" Recent events demonstrate that the previous restrictions thought to be operating to prevent terrorist use of weapons of mass destruction - concern over retaliation by the affected states and backlash by supporters - do not provide the deterrence originally thought.

This seminar will provide an overview of the reasons for use of chemical and biological weapons (CBW) by terrorists, the biological and chemical agents likely to be used, and defensive and mitigation measures. Case studies of prior use of CBW by nonstate actors will be used to illustrate the points.

The speakers are civilian analysts from CBWInfo.com and the authors of the Tempest publication Chem-Bio: Frequently Asked Questions, which provides overview information on the topic for non-specialists.

Location: Chemical Abstracts Service, 2540 Olentangy River Road, Columbus, 43202 (tel: 614 447 3600). To get to Chemical Abstracts Service, take Route 315 to Lane Ave. exit. Go E to Olentangy River Rd. Turn L (N) and go past the Fawcett Center to Burnbrae St. (just before Ackerman/Dodridge). Turn R and park in lot. Please enter building through the N entrance and sign in at the security desk.

Welcome New Members!

Ozkan Altay
Sandip Chattopadhyay
Michael C Cole
Christine Duncan
J Aaron Frim
Hu Shan Huang
Leon L Kappler
Yoon S Lee
Joseph F Michalec
Yomadis I Ortiz
Bharat Patel
Thomas E Rohrer
Kerstin Schuhmann
Ashley Anne Updike

Matthew J Byrnes
Ssuhen Chen
Julian A Cox
Erica E Eliser
Heather J Grunkemeyer
Muhammad Irfan
Young Woo Kim
Teresa K Lewandowski
Corey Lynn Moses
Garrett M Parker
Shannon L Phillips
David Scarpetti
Oksana Shmaliy
Peng Wang

Shuh Kuen Chang
Liang-Hiong Chia
Lawrence J Druhan
Stacey M Fauley
Yongtian He Zhigen
Javed Nadia Junod
Oscar R Lara
Janice E Mears
Veronica Kim Newsome
Vincent Pascarella
James F Rathman
Lisa A Schafer
Ping Sun Abdullatif Tay

The Chemical Record

Email news, announcements, letters, opinions, etc. to srenner@cas.org.

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Calendar

November:

4-10th; National Chemistry Week;
Theme: Chemistry in Art.

14th; “*Applications of Biopolymers*”, Dr James N. BeMiller; Program at the Fawcett Center.

December:

6th; Special Meeting - “*Terrorism using Chemical and Biological Weapons*”, Coffee/ cookies. Program to be held at Chemical Abstracts Service.

12th; Combined meeting with the AIChE; “*A Labor of Love - the art and technology of making chocolate*”, Dr. Witfield Robbins, Nestle Company; Dinner and Program to be held at the Holiday Inn on Lane Avenue.



Columbus Section Of The
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CHEMICAL RECORD
P.O. Box 82181,
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