

THE OCTAGON



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Lehigh Valley Section of the American Chemical Society

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816th Meeting of the LVACS

Thursday, April 29, 2010

Moravian College - North Campus

Student Awards Night

and

Undergraduate Poster Session

Students are encouraged to attend!

Reception and Undergraduate Poster Session:

5:00 – 6:15 pm, Lobby Collier Hall of Science

Dinner: 6:15 pm – UBC Room, Hauptert Union Building

Student Award Presentations, Business Meeting

and Talk: 7:30 pm Dana Lecture Hall, Collier Hall of Science

Menu: Buffet featuring Baked Chicken Breast with Pineapple/Orange Sauce and Pasta Primavera

Cost: members \$20, students & retirees \$10

Contact: Reservations: LouAnn Vlahovic by **Noon, Friday, April 23rd**. Please include your name, affiliation, and for students whether they are an awardee, poster presenter or both. Registration can be made by phone (610-861-1425) or by email melnv01@moravian.edu (the last two digits are numbers). Please put LVACS Registration in the subject line. (Note: email registrations will be confirmed by a return email.)

Directions: on the web at <http://www.moravian.edu/admission/directions.htm>. Suggested parking is in Lots M, N, & O, along Locust Street. A campus map is available at <http://www.moravian.edu/campusMaps/north.htm>

Speaker: *Dr. Joe Vinson, University of Scranton*

Biography Dr. Joe Vinson was born in Arkansas and grew up in the San Francisco Bay Area. He attended college at the University of California at Berkeley where he received his B.S. in Chemistry in 1963. He received a joint PhD in Physical Organic Chemistry and Analytical Chemistry (two theses) in 1967 at Iowa State University. After a stint in industry at J.T. Baker Chemical Company, he is now Professor of Chemistry at the University of Scranton in Northeast Pennsylvania. His current research interests include the effect of foods, vitamins, and antioxidants on nutrition and health. He is a consultant for several nutritional supplement companies. Dr. Vinson is the author of over 80 publications and has presented his research at meetings and venues around the world. He is best-known for his work with chocolate, tea, grape juice, and cranberry juice and has been featured on ABC Good Morning America Sunday and National Public Radio The People's Pharmacy and All Things Considered and even had a humorous cartoon in Time Magazine for his coffee work. For the last 25 years he has been a National Tour Speaker for the American



Talk: *The Chemistry of Marijuana in Humans*

Abstract: Marijuana is smoked, eaten, or drunk by more than 200 million people all over the world.

Yet, it remains one of the least understood drugs. In this presentation, we will attempt to provide some insights into the chemistry of marijuana. As a background to begin our discussion, we will review the history of marijuana, which is thousands of years old. Next, we will look at the chemical composition of the cannabis plant, the pharmacology of marijuana in humans and the physiological effects of marijuana. A brief review of the analysis of marijuana in physiological fluids will then be presented. The recent advances in the use of marijuana in medicine will conclude the presentation.

LVACS Science Cafés at Barnes and Nobel-



The first Science Café on chocolate was postponed until June (the exact date will be determined later) due to weather, but we are set for the next one on April 22 at 7pm. Professor Arup SenGupta from Lehigh will talk about his work in

removing arsenic from drinking water. The title of his presentation is “Sustainable Mitigation of Global Arsenic Crisis: Recent Advances and Role of Chemistry.” Professor SenGupta has received many awards for his work, including the 2007 Grainger Silver Prize Award from the National Academy of Engineering (NAE) for providing sustainable engineering solutions for arsenic-contaminated drinking water of the Indian subcontinent. The Science Café will held at Barnes and Noble in the Southmont Center off of Route 33.

ACS Supports Science Funding in Obama Budget

In a recent story in U.S. News & World Report, ACS President Joe Francisco helped to make the case for science funding.

See <http://www.usnews.com/articles/news/2010/02/10/obamas-budget-gives-a-boost-to-science-.html> for details



Sponsored by The Lehigh Valley Section of The American Chemical Society

Thursday April 29, 2010

Moravian College

5:00-6:15 PM - Preceding the 816th meeting of the Lehigh Valley Section of the ACS

(Meeting details will be published in the April Octagon and at <http://www.esu.edu/lvacs/>)

Who may participate?

Undergraduates attending a college or university within the Lehigh Valley section of the ACS. Research may have been done at the student's home institution with a chemistry or chemical engineering faculty member or during a summer research experience elsewhere.

To participate:

Students wishing to present their work must themselves submit an abstract by April 19, 2010, as a Microsoft Word attachment to an email, to cblibby@cs.moravian.edu. Please indicate “LVACS Poster Session” in the subject line of your email header. Early submission is encouraged.

Abstract format:

Times New Roman font

TITLE (all capitals)

Authors' names, authors' institutions and addresses

Abstract of research, 150 words maximum

One poster session participant will be chosen to receive a \$250 award to support travel to present research at a national or regional ACS or AIChE meeting.

Other requirements and information:

The poster session is held before the dinner meeting and our annual student awards night.

Poster presenters must provide their own pins and poster board. Easels will be provided for displaying the posters.

Abstracts will be acknowledged by an email message that will include details about meeting room, set-up time, and the travel award.

If you do not get a response within two days of abstract submission or you have any other questions, contact Carol Libby, cplibby@cs.moravian.edu, 610-861-1629

LVACS Scholarship for Organic Chemistry

The Lehigh Valley Section of the American Chemical Society will award its annual Scholarship for Organic Chemistry this May. To be eligible, students should be below the junior level, currently enrolled in organic chemistry at an institution in the section, and a chemistry, biochemistry, or chemical engineering major. The competition entails taking the ACS Organic Chemistry Examination (45%), a letter of recommendation from the student's organic chemistry professor (10%), and an essay on a topic in organic chemistry (45%). The value of the scholarship is \$1000. Additionally, the top essay will receive \$100.

Details about the exam, letter, and essay follow below. Students should indicate their interest in the scholarship in advance of May 1 to Dr John Freeman, jfreeman@po-box.esu.edu.

ACS Organic Chemistry Examination: The exam will be administered on Saturday, May 1, 2010, at Moravian College, Bethlehem, PA from 9:00-10:30 AM. Students should report to the entry foyer of Collier Hall of Science. For directions see <http://www.moravian.edu/campusMaps/northBuildings/collier.htm>. Juice and bagels will be available at 8:45 AM.

Letter of Recommendation: Professors writing a letter of recommendation on behalf of a student who is applying for the Lehigh Valley ACS Scholarship should speak to the student's skills in lecture and

laboratory in Organic Chemistry I and Organic Chemistry II. Please provide the course grade for Organic Chemistry I and comment on performance on written exams, proficiency in organic lab, and participation in recitations, problem sessions or course-related group work. If possible, address the student's quantitative skills by commenting on her or his performance in quantitative analysis or its local equivalent. The letter of recommendation must be submitted in a sealed plain envelope and signed by the professor over the seal. The student will be required to bring the sealed letter to the ACS Organic Chemistry Exam at Moravian College on May 2.

Essays: The student should choose a molecule, a group of molecules, or a process in organic chemistry to write about. The essay should be written at a level to interest and educate a general chemist who has completed sophomore-level organic chemistry. Synthesis, mechanism and structural elucidation should be covered for the chosen molecule (or representative examples of a chosen group). If a process is chosen, the physical and chemical basis for its success should be explained. Judicious use of structures is expected. The essay should address the impact of the molecule or process on society and the student's personal interest in it. The essay should contain between 1600 to 1800 words in Times New Roman 12 point font with one-inch margins on all sides. Each page should have a header with the student's last name, brief essay title and page number. An additional page with references must be included. References should follow the style of The Journal of the American Chemical Society (an article from a recent issue can serve as a model).

The winning essay will be published in the Octagon. The essay will be rated on:

- 40% - Appropriate depth of coverage of the molecule(s) or process.
- 30% - Appropriate depth of coverage on the impact on society and student's interest.
- 20% - Ease of reading, including grammar, spelling, and logical flow of the material.
- 10% - Appropriate use of references.
- 5% - Adherence to the formatting rules provided.



Undergraduate Research Travel Award - \$250

Sponsored by LVACS

Purpose: The prize must be used to help defray expenses associated with presentation of undergraduate research at a national or regional meeting.

Eligibility: Student must present research at the Undergraduate Research Poster Session, to be held at the April 29, 2010, meeting of the Lehigh Valley ACS. Undergraduate Research Poster Session details will be available at <http://www.esu.edu/lvacs>. The winner will be chosen by lottery.

Limitations of the Award: The award must be used between March 21, 2010* and April 29, 2011 to pay for travel, registration, or accommodations associated with attending a national or regional American Chemical Society or American Institute of Chemical Engineers (AIChE) conference to present *research* carried out as an *undergraduate* (or the summer after you graduate if you receive your degree this spring).

Visit these websites for possible meetings that you might attend. Speak to your advisor soon about the possibility of presenting at a national or regional meeting. Note that abstract submission deadlines are far in advance of the actual meeting, so it's not too soon to begin planning.

<http://www.acs.org/> (Meetings tab)

<http://www.aiche.org/>

<http://www.aiche.org/Students/Conferences/index.aspx>

*to include the 239th National Meeting of the ACS, March 21-25, 2010 in San Francisco and the 2010 Spring Meeting of the AIChE, March 21-25 in San Antonio.

Reminder - Earth Day is April 22



Congratulations to our 50-Year and 60-Year members !

We are delighted to recognize the LVACS members who have reached 50 and 60 years of service to the American Chemical Society.

Our new 50 Year members are:

Allan Huffman, Michael Koskoski, Roger Napier, and Charles Wade.

Our new 60 Year members are:

Charles Barg, Alonzo Mantz, and William Siegele.

Congratulations to all of you for your long



Last Chance MARM 2010

MARM 2010 is poised to start in a few days - Saturday thru Tues, April 10-13 - in Wilmington DE. Although

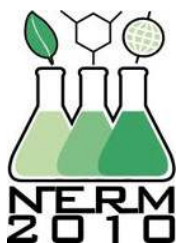
some problems with the transition by ACS to a new abstract submission system delayed the appearance of the full MARM program online, it is now in place and viewable at www.marmacs.org/2010/program.html

It's shaping up to be an exciting meeting, offering 305 technical presentations in 35 sessions, plus the usual collection of special sessions, workshops, awards ceremonies, and ample opportunity to meet and network with old friends and colleagues. The meeting venue, the Hotel du Pont, still has rooms available. The discount period is officially over, but the hotel tells us there's a good chance that people asking for the discount will still get it. And if they fill up, they'll refer you to other hotels nearby. Also, ACS has extended advance discounted meeting registration until the day before the meeting as an incentive to attend. So, if you have been thinking of dropping by but haven't made up your mind, please do check out the website www.marmacs.org and the program one more time. We hope to see you "in the First State" next week! -- ACS and the MARM Organizing Committee -- Martha Hollomon, General

Chair, marthahollomon@marmacs.org P.S. if you're a MARM presenter and need to confirm scheduling information, you should find what you need at the website now.

Free Workshops on Engineering Education for HS Teachers

In conjunction with the 2010 Mid-Atlantic American Society of Engineering Education (ASEE) Conference, there will be a series of free workshops for high school teachers on Friday afternoon, April 16 at Lafayette College. The workshops, in which the participants can pick two, will be on chemical & biomolecular engineering, civil & environmental engineering, electrical & computer engineering, and mechanical engineering. The workshops will count towards PA Act 48 Profession Development hours. Further details will be mailed to local high schools or, if interested, contact Professor Javad Tavakoli (tavakoli@lafayette.edu). Details for the meeting are at <http://sites.lafayette.edu/asee2010/>.



NERM Announcement

The 2010 American Chemical Society Northeast Regional Meeting, NERM2010, will be held June 2-5, at the SUNY Potsdam campus, New York. The theme of our event is "Chemistry for a Sustainable World". Our keynote speakers, including Dr. Catherine T. Hunt (2007 ACS president) from Dow Chemical, Prof. Paul T. Anastas from Yale University and Prof. Vicki L. Colvin from Rice University, will elaborate on this theme, headlining our technical sessions on green and environmental chemistry. The meeting features 25 special symposia with particularly strong programming in physical chemistry and nanotechnology; biomedical and biochemistry; analytical chemistry; organic/medicinal chemistry; and chemical education. There will be a strong program for K-12 educators on Saturday June 5. ACS regional meetings provide a high level of scientific discourse, excellent networking opportunities, and are great value for money. We invite you to visit our website: www.nerm2010.org, to learn more about our special symposia, our many distinguished invited

speakers, and about the wonderful social and networking events planned for this meeting. We also invite you to present your research: the meeting is open for abstract submission until April 20.

Conference chair: Martin Walker, Dept. of Chemistry, SUNY Potsdam,

Program chair: Maria Hepel, Dept. of Chemistry, SUNY Potsdam.



Submissions to the Octagon

LVACS members, we want to know about what you do! Please submit pieces of interest to the chemistry community for publication in the Octagon. Articles about chemistry or science in the Lehigh Valley are always welcome. Let us know about upcoming events, educational opportunities or job openings.

The Octagon is published eight times per academic year, September through May. Each issue generally arrives three weeks before a section meeting. Thus the deadline for submissions is approximately one week earlier. Please email the editor at lvacs@verizon.net for specific questions about deadlines for any issue. Email submissions to lvacs@verizon.net

A note about formatting:

Please submit text as simple .txt files, or you may paste the text into an email. If you use later versions of MS word please do not submit documents as .docx files. I cannot always read all content in .docx formatted files. It would be best to use the "save as" option, generally found under the file menu, to save the document as .txt. Also images embedded (pasted) in MS word (particularly later versions) are problematic to extract and put in the newsletter while retaining good image quality. Whenever possible, please submit images in a standard format such as .jpg, .jpeg, .gif, .tiff or .bmp as individual files, rather than embedded within a document. If the placement of images is critical you could submit two versions (one embedded so that I can see where you would like images placed) and the other as separate files so that I may maintain figure resolution.

LVACS Officers - 2009

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