

**Detroit Local Section presents
March Section Meeting
Dr. John Gardon speaks on**

“Global and National Energy Issues: What are the Technical and Policy Options for Electricity Generation and for Transportation?”

Date: Wednesday, March 28, 2012
Time: 6:00 PM Refreshments
6:30 PM Presentation
Location: Lawrence Technological University
Science Building
Room S100

Dr. Gardon will review the utilization, sourcing and merit of each available energy technology. Electricity generation is changing particularly as a result of newly discovered natural gas reserves, crisis in the nuclear industry, and hydropower developments in China. Sun and wind are gaining market share. The electric cars use a breathtaking variety of novel engineering approaches for hybrids and plug-ins. Low sulfur Diesel oil has merit relative to gasoline. These and other innovations change the outlook on policies concerning global warming. Current regulations in various countries will be summarized.

Dr. Gardon received his Ph.D. in chemistry summa cum laude

(Continued on page 2)

(Continued from page 1)

from the McGill University, and is a chemical engineering graduate of the Swiss Federal Institute of Technology. Before his retirement, he was Vice President, R&D, of Akzo Nobel Coatings (the world's largest paint company) and earlier of the Sherwin Williams Co. He is the author of more than 50 refereed technical papers, four text books and 18 U.S. patents.

The address of Lawrence Technological University is 21000 West 10 Mile Road, Southfield, Michigan 48076. Attendees can get to the university off the John C. Lodge expressway. A campus map is provided in this edition of The Chemist. Parking on campus is open.

Upcoming ANACHEM Meetings

Anachem/SAS will host Dr. Alex Scheeline University of Illinois as the speaker for our March meeting. It will be held on Wednesday, March 21 at 6:00PM at the new Science Complex on the EMU campus. Title, abstract and directions will be available soon.

The Anachem/SAS fall Symposium will be held at the Burton Manor, Livonia, MI on Thursday, November 1, 2012. The plenary speaker will be the 2011 Anachem Award Winner Dr. Robert B. Cody of the JEOL Corporation. He received his Ph.D. under Dr Ben Freiser a previous Anachem Award Winner. A session in his honor will precede his presentation. The Symposium will have sessions for Mass Spec, graduate students, posters, workshops and other topics of current interest.

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American Chemical Society – Detroit Local Section – Younger
Chemists Committee Presents:

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Detroit, Michigan

Brewing Chemistry is a monthly lectures series. These informal talks are designed to make science fun and accessible for all. The lectures take place at 7 p.m. on the third Tuesday of every month at:

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There is no admission charge, and free parking is available. Feel free to join us before the talk at 6:00 PM for a dutch-treat dinner.. For more information, contact Meghann at 313.993.1259 or meghann@brewingchemistry.com

Tuesday, March 20th, 2012 at 7 PM

Green Chemistry: An Overview of Principles and Applications

Presented by:

Mark R. Mason, Ph.D., Associate Professor of Chemistry, Department of Chemistry, School for Green Chemistry and Engineering, University of Toledo

Over the past two decades, there has been a dramatic shift in the way government views pollution prevention and the environmental consequences of chemical manufacture in the United States. Source reduction, rather than “end of the pipe” waste treatment, is now the preferred method for reducing pollution. This approach requires scientists and engineers to be increasingly aware of the environmental consequences of the chemical-related products and processes we develop. Green chemistry, “the design of chemical products and processes that reduce or eliminate the use and generation of hazardous substances,” is the foundation of this increased awareness.* During this presentation, the principles of green chemistry, applications of green chemistry principles, and the mission of the new School for Green Chemistry and Engineering at the University of Toledo will be discussed.

*Anastas, P. T.; Kirchhoff, M. M. *Accounts of Chemical Research* **2002**, *35*, 686.

A Call for Nominations

Every year the Detroit Local Section of the American Chemical Society honors people that have gone above and beyond the call of duty. These volunteers have taken time and energy out of their busy schedules to provide assistance and resources to the field of chemistry in various roles. We like to recognize their efforts with a Salutes to Excellence award (description below). The awardees are honored at our awards banquet.

Salutes to Excellence is an award program that gives ACS members an opportunity to conduct an event within their communities that recognizes the positive impact on everyday life made by a product of chemistry, a practitioner of chemistry, or a place of importance in chemistry. A central part of the event is the presentation of a commemorative plaque, furnished by Office of Community Activities, for the honorees for the chemistry achievement being honored.

If you know of an individual (or business) that deserves this recognition, please submit their name(s) to Mary Kay Heidtke, Recognition Chair, Detroit Local Section. Her email address is mkheidtke@aol.com. Please submit your nominations no later than March 31, 2012.

Question; What do chemistry and Facebook have in common? Answer; I have no clue!

As the webmaster for the Detroit Section I was asked to create a Facebook Page. Thankfully, Gina Ludwig volunteered to create the page and now the Detroit Section ACS has a new Facebook Page. Many thanks to Gina! Unfortunately, there isn't much on the page. I am writing this to encourage you to go to our Facebook page and become a friend or at least post something. As a more senior member of the chemistry community, I have not been active in social media. OK, I'll confess; I have never made a post to any Facebook page! So, if the Facebook page is going to be a success, you will have to help. Come on, let's set a goal of 50 new friends and 1000 posts before the April "Chemist" is published. There are more than 1200 members in the Detroit Section ACS, let's start sharing some of our experiences. If you see the March "Chemist" and get curious about whether or not we met the goal, you'll have to visit the Detroit Section website (<http://detroit.sites.acs.org/>) or Facebook page to find the answer.

Sincerely,
Kevin Perry

Come Celebrate 100 Years of Chemistry in Detroit!

The Historic Henry Hotel (formerly the Ritz Carlton) is host to the 43rd Central Regional Meeting and Detroit Centennial Chemistry Celebration. Symposiums will highlight:

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Analytical Chemistry
Automotive Materials
Biochemistry
Chemical Education
Online Chemistry Education
Detroit 100 – A Celebration of 100 Years of Chemistry in Detroit

Join us for an exciting undergraduate program and an informative and interactive high school teachers workshop.

Events not to be missed include:

- Women Chemists Committee Luncheon with an exciting speaker
- Younger Chemists Committee Luncheon
- Ice Cream Social with the ACS Governance

Awards for outstanding members of the Section and Region will be presented at a banquet.

The meeting will be held June 5 - June 9, 2012.

Key dates to remember:

- February 20 - Abstract submission opens
- February 20 - Meeting registration opens
- April 16 - Abstract submission closes
- May 22 - Advance registration closes

**For more information, please visit our website at:
<http://2012cerm.sites.acs.org>**

Please see the following 3 pages for information on nominating candidates for Regional Awards.

E. Ann Nalley Regional Award For Volunteer Service to the American Chemical Society

Purpose: To recognize the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their Regional Activities.

Nature and Establishment: This award was instituted in 2006 by ACS President E. Ann Nalley as part of her presidential initiative to recognize ACS volunteerism. It was Dr. Nalley's wish that the award continue in perpetuity at each regional meeting. The award consists of a plaque honoring the recipient with an imbedded medallion commemorating Dr. Nalley.

Rules of Eligibility: A nominee must be a member of the American Chemical Society residing in a local section within the region, and will have made significant contributions to their Region of the American Chemical Society. The volunteerism to be recognized may include a variety of activities, including but not limited to the initiation or sponsorship of a singular endeavor or exemplary leadership in the region. Past and present members of the ACS Board of Directors and staff are ineligible for this award.

Selection of Recipient: Nominations will be solicited from individuals, using the channels customary for other awards in the region. The awards committee of the region, or its equivalent, will select the recipient.

Directions: Any individual, except a member of the award selection committee, may nominate or support *only* one nominee for this award in any given year. Please visit our Website at <http://2012cerm.sites.acs.org/eannalleyaward.htm> for more information.

Submittal process: Submit each of the following: nomination and support forms, and biographical sketch (or curriculum vitae) to Mary Kay Heidtke by April 2, 2012.

E-mail: mkheidtke@aol.com
Postal Mailing:
Mary Kay Heidtke
Magni Industries, Inc.
2771 Hammond Street
Detroit, Michigan 48209-1239

Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences

Information:

Sponsor ACS Committee on Minority Affairs

Purpose: The Stanley C. Israel Regional Award recognizes individuals and/or institutions who have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region.

Nature: The award consists of a medal and a \$1,000 grant to support and further the activities for which the award was made. The award also will include funding to cover the recipient's travel expenses to the ACS regional meeting at which the award will be presented.

Eligibility: Nominees may come from academia, industry, government, or independent entities, and may also be organizations, including ACS Local Sections and Divisions. The nominee must have created and fostered ongoing programs or activities that result in increased numbers of persons from diverse and underrepresented minority groups, persons with disabilities, or women who participate in the chemical enterprise.

To Apply: The nomination package must include:

- A letter of nomination
- A CV or resume containing relevant diversity promotion activities and factual data on outcomes
- At least one, but no more than three supportive letters, one of which must come from the nominee's ACS Local Section. Mailing address, phone number(s), and e-mail address of nominee/supporter must be provided.

Contact Information

American Chemical Society
Department of Diversity Programs
1155 Sixteenth Street, NW
Washington, DC 20036
Fax: 202-776-8003
Email: Diversity@acs.org

The deadline dates for receipt of nominations is April 2, 2012

.THE ACS DIVISION OF CHEMICAL EDUCATION CENTRAL REGION AWARD FOR EXCELLENCE IN HIGH SCHOOL TEACHING

Deadline: March 15, 2012

Any individual, except a member of the award selection committee or current students, may nominate or support *only* one nominee during any given award year. Submit to Matthew J. Mio via e-mail miomj@udmercy.edu as an attachment, or send hard copy

to

Matthew J. Mio
Chemistry and Biochemistry Dept.
University of Detroit
4011 W. McNichols Road
Detroit, Michigan, 48221-3038.

The award will be presented at the 2012 Central Regional Meeting of the ACS, which will be held on June 6 in Dearborn, Michigan.

To download a copy of the 2012 CHeD Nomination Form go to the CERM Awards website:

<http://2012cerm.sites.acs.org/hsteachingawardched.htm>

Manya: A Living History of Marie Curie Presented by Susan Marie Frontczak, Storysmith®

This one-woman drama exposes the struggles and triumphs of Madame Marie Curie (née Maria Skłodowska) - an academically impassioned, vehemently private, fervently Polish scientist, mother, and teacher.

This one-hour program is adjusted as appropriate for adults or for school groups grades 4 through 12. A 40 minute presentation from childhood through scientific discovery, followed by a 10 minute Q&A with Marie Curie, and a 10 minute Q&A with the author/presenter.

This program honors a preeminent woman of science: discoverer of radium and radioactivity, first woman in Europe to earn a doctorate in the sciences, first woman to lecture at the Sorbonne, and winner of two Nobel Prizes. Re-live the exceptional collaboration between Pierre and Marie Curie, companion scientists, who worked with the medical community to establish the first successful treatments of cancer. This program honors the ethic of scientific altruism. The Curies declined to patent their methods, insisting that to profit from the discovery of radium would be “contrary to the scientific spirit.” And, this program honors Manya’s Polish heritage – much neglected not only now, but in her own life, to her own dismay. Whether looking at Marie within her historical context or through the lens of a new millennium, this is a life that challenges our assumptions about what one person can achieve and the responsibilities of science.

We are fortunate to bring this program to our local area as a trisectional meeting between Detroit, Huron Valley, and Toledo Local Sections. The program will take place in October. More details will be provided in future editions of The Chemist Newsletter or by visiting our Website. If you would like more details on Susan Frontczak’s portrayal of Madame Curie, you may visit her Website at <http://www.storysmith.org/manya/at.html>.

7th Annual Chemistry Day Declared a Success by Local Girl Scouts

“I think that in order to be a Chemist, you need to have a love of science and be able to deal with messes.” - Junior Girl Scout

On Saturday, November 12th, 193 junior Girl Scouts and their leaders participated in the seventh annual Chemistry Day. The First United Methodist Church of Troy was bustling with activity as the Girl Scouts of the Southeastern Michigan learned about the role of chemistry in every day lives. The event was a large success, mostly due to the support of our volunteers and sponsors. Donations received were crucial in making this event possible. The Detroit Section of the American Chemical Society wishes to thank the following organizations for their support:

First United Methodist Church of Troy

Little Caesar Enterprises, Inc.

The Girl Scouts were enthusiastic as they took part in the activities for the day including a service project, a science/art project, career session, and hands-on experiments. The service and art projects were organized by Liz Roberts-Kirchhoff (UD-Mercy). For the service project, the Girl Scouts collected canned goods. Over 200 non-perishable items were donated to Gleaners to help local families. For the art/science project the Girl Scouts used their creative talents to decorate holiday ornaments. Each Girl Scout chose an element from the periodic table to use as a model for their ornament. In doing so, they learned about practical uses for each of the elements. In another project, the girls used old C&E News magazines and colored paper to make science collages.

Next, the Girl Scouts were exposed to a variety of careers available in the field of chemistry. Meghann Murray (UD-Mercy) was the lead organizer for this activity. Three great speakers shared information about their careers and the impact that science has on their professional lives. The speakers met with each group of Girl Scouts to answer questions regarding their careers. This way the Girl Scouts could determine why the speakers chose their profession and how they got started in their field. The guest speakers of the career program were:

Victoria Hornick-Rosinski, Chemistry Teacher, East Detroit High School-Cabrini High School

Hulya Ahmed, Chemist, BASF Corporation

Denise Glassmeyer, Patent Attorney and Counselor at Law, Young & Basile, P.C.

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A poster session was also included in the career activity. The posters were fantastic! They provided eye-catching detail on topics related to this year's NCW theme, "Chemistry – Our Health, Our Future". The Scouts were given a list of questions that they had to answer about the posters. This provoked further discussions on careers available in science. The posters were created as a service-learning project by CHM 1010 Principles of Inorganic Chemistry students from the University of Detroit Mercy.

The final activity for the day was the hands-on experiments. In this event, the volunteers utilized their backgrounds in science to communicate the importance of chemistry to our quality of life. While the girls are having fun creating messy goo-like substances (Gluep and Slime), they are also learning about the importance of polymers. An experiment that used dry ice helped to explain properties of matter. In all, seven experiments were organized by Denise Grimsley (BASF Corp).

Special thanks go to Mary Kay Heidtke (Magni Industries, Inc), Megan Klein (Ash Stevens Corp), and Caroline Feathers (Girl Scouts of Southeastern Michigan) for acting as the lead organizers to bring the two groups together. Many parents thanked the volunteers in their evaluations for "igniting the spark of a love of science" in their children. These volunteers graciously gave their time, energy and enthusiasm. We sincerely hope that you enjoyed the event as much as the Girl Scouts did!

Reema Abbo	Milad S. Karim	Maria Miltello
Hasanain Al Anli	Trevor Kay	Clint Mikek
Humna Anjum	Sarah Fezzey	Zeinab Moubadder
Belal Beidoun	Steve Jones	Tom Ott
Emily Boggs	Sana Kahn	Haley Ross
Rose Brown	Malinda Killu	Mariam Saco
Alyssa Colbert	Erin Knape	Sumita Sam
Joshua Eby	Warren Knape	Brett Schulte
Nicholas Elsey	Jennifer Kolasinsk	Saif Shounia
Jason Germain	Tia Longo	Stephen Swarin
Ioana Grosu	Emil Lozanov	Stevon Sykes
Sanda Grosu	Michael Makowski	Becky Truitt
Adam Hassan	Bartoszs Maska	Justin Vail
Brenna Hendler	Kim Matteson	Julie Van
		Marco Yousif

AND THE University of Detroit Mercy, Inorganic Chemistry students (posters)

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Featured Events – March 2012

Tuesday March 6, 2012, 2pm-3pm EST

Tips for Creating High Impact Scientific Poster Presentations

In the scientific community, poster presentations are an important tool in communicating research – a dynamic poster can build your reputation and create interest in your work. After years of research, trials, and collecting data, how do you pull it all together to create a dynamic poster presentation that gets you remembered?

Speaker: Dr. Brent Znosko, Saint Louis University

Thursday March 15, 2012, 2pm-3pm EST

FOOD CHEMISTRY: More Advanced Beer and Brewing – Tips, Tricks, and Tidbits You Wish You Knew

“Brewing is mankind's oldest biotechnology. These days it is a sophisticated operation, based on an in-depth understanding derived from a range of scientific disciplines. Yet it retains the charm of an art form appreciated by billions of people the world over.”

Speaker: Dr. Charlie Bamforth, UC Davis

Thursday March 22, 2012, 2pm-3pm EST

EXTREME CHEMISTRY: Designer Babies

“Do you want a boy or a girl?” That question is now only one of many variables soon to be parents could choose from. Again, technology takes us to the outer realm where parents no longer have to wish for certain traits, but can plan for them through genetic engineering.

Speaker: Dr. Darren Griffin, University of Kent, UK

Upcoming Section Activities: A Busy Year of Section Programming

April Monthly Program – Joint Program with Women’s Chemists Committee “Safe Supplements for Athletes and for You and Me” presented by Kerri LeVanseler, Ph.D., April 25, 2012

April Outreach Program – Chemists Celebrate Earth Day (more details in April Chemist)

May Monthly Program – Joint Anachem and Detroit Local Section Tour of Canadian Club Whisky in Walkerville, Ontario, Saturday, May 19, 2012

June – CERM!

September Monthly Program – Norman Sims presenting at University of Detroit – Mercy Law School (more information in September Chemist)

October Monthly Program – Tri-sectional Meeting Susan Marie Frontczak’s, Storysmith®, presentation “Manya – A Living History of Marie Curie”

October Outreach Program – National Chemistry Week Celebration

November Outreach Program – Girl Scout Chemistry Day, November 10, 2012

November Monthly Program – Joint Program with University of Michigan – Flint (more information in November Chemist)

Map and Directions to March Section Meeting

Lawrence Technological University By Car

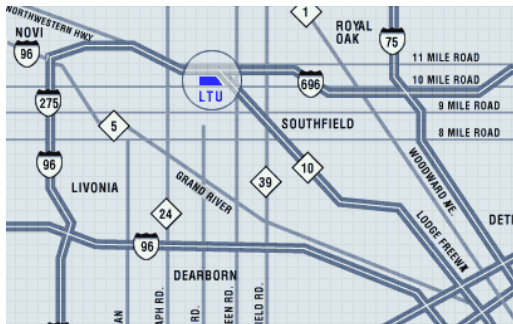
From the Southwest and Detroit Metro Airport: Follow I-94 East to the northbound Southfield Freeway (M-39). Exit onto northbound M-10 (Northwestern Highway/Lodge Freeway). Proceed north and exit at Ten Mile Road/Evergreen Road. Take the Northwestern Highway Service Drive to Ten Mile Road. Turn left onto Ten Mile Road. The campus entrance is on the right.

From the West and Ann Arbor (via I-94 and M-14): Follow I-94 East to eastbound M-14. Continue on M-14 to northbound I-275. Take I-275 North to I-696 East. Proceed east on I-696 to southbound M-10 (Northwestern Highway/Lodge Freeway). Exit at Ten Mile Road/Evergreen Road. Turn right onto Ten Mile Road. The campus entrance is on the right.

From the Northwest and Lansing (via I-96 and I-696): Follow I-96 East to I-696. Proceed east on I-696 to southbound M-10 (Northwestern Highway/Lodge Freeway). Exit at Ten Mile Road/Evergreen Road. Turn right onto Ten Mile Road. The campus entrance is on the right.

From the North (via I-75): Follow I-75 South to I-696 West. Proceed west on I-696. Exit at Evergreen Road. Turn left onto Evergreen Road and proceed south one mile to Ten Mile Rd. Turn right onto Ten Mile Road. The campus entrance is on the right.

From the East (via I-696): Follow I-696 West. Exit at Evergreen Road. Turn left onto Evergreen Road and proceed south one mile to Ten Mile Road. Turn right onto Ten Mile Road. The campus entrance is on the right.



**LAWRENCE
TECHNOLOGICAL
UNIVERSITY**

Building Key

1. Corporate Services Center
2. Don Ridler House:
Applied Research Center
3. University Housing Center - North
4. Wayne H. Buell Management Building
College of Management
Library
Dining Facilities
5. A. Alfred Taubman Student
Services Center
6. **Science Building**
College of Arts and Sciences
7. Architecture Building
College of Architecture and Design
8. University Technology and
Learning Center
9. Engineering Building
College of Engineering
10. Center for Innovative Materials Research
(CIMR)
11. Professional Development Center
12. Maintenance Building
13. University Housing Center - South
14. Outdoor Athletic Fields

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Calendar of Upcoming Events

Second Tuesday of the Month: Section Executive Committee Meeting – The November 8th Executive Committee Meeting will be held at the University of Michigan Dearborn, Science Building Room 108. The meeting will start at 7:00 PM .

Third Tuesday of Every Month: Brewing Chemistry. Please see <http://brewingchemistry.com> and page 3 for information on March event.

March 21: March ANACHEM Meeting, please see pages 1-2, 14 for details.

March 28: March Section Meeting, please see pages 1-2, 14 for details.

April 25: Section Meeting, details To Be Announced (TBA)

May 19: Section Meeting, details TBA

June 5-9: CeRM (Central Region ACS 2012 Meeting) sponsored by the Detroit Section. Please see pages 5-8 for details.

October Tri-Sectional Meeting, please see page 9 for preliminary details

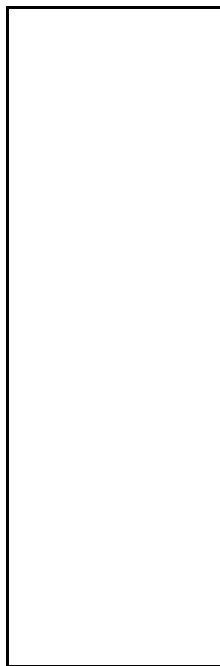
November 1: ANACHEM Symposium, details TBA

November 10: Annual Chemistry Day

November Section Meeting, details TBA

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