

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

February, 2017
Vol. 54 No. 5

Section Calendar

2017 Meeting Schedule

February 23	Travis Falconer Mt. St. Joseph
February 24-26	GO-Chem Joint Ohio ACS Meeting Sandusky, OH
March 30	Chemist and Researcher of the Year, Miami U
April 2-April 6	National ACS Meeting San Francisco
April 22	Chemists Celebrate Earth Day
April 26	Teacher and Student Awards, NKU
May	Party Night, TBD

In this issue

February Meeting Announcement	1
From the Chair	2
February Meeting Speaker	4
GO CHEM announcement	5
CINTACS Sponsors	6-10

February Section Meeting

Tainted Goods: Tales of Adulterated Dietary Supplements

The February Section meeting will be held Thursday, February 23, at Mt. St Joseph University. The featured speaker for the evening is Travis M. Falconer, Ph.D. Dr. Falconer is an Analytical Chemist in the Forensic Chemistry Center (FCC) of the US Food & Drug Administration (FDA). One of his areas of focus at the FDA is on the regulation of dietary supplements through the investigation of unlabeled and potentially hazardous ingredients found in so-called "all natural" products.

Meeting Program

5:30-6:00pm

6:00 - 7:00pm

7:00 - 8:00pm

Executive Board Meeting (Rm TBD)

Registration and Social Hour (Theater Lobby)

Dinner (Theater Lobby)

\$25.00 Members/Guests or \$15.00 for Emeritus, K-12 Teachers, Students, Unemployed, New Members

Menu: Dinner Buffet

8:00 - 9:00pm **Speaker:** Travis M. Falconer, Ph.D

Register at <http://www.acscincinnati.org/meetings/>

Register at <http://www.acscincinnati.org/meetings/>

THE CINTACS NEWSLETTER**Vol. 54, No. 5 February 2017**

Editor.....Adam Bange

CINTACS is published eight times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately February 25 for the March 2017 issue. Electronic submission is strongly preferred. All materials should be sent to:

Adam Bange
Xavier University
3800 Victory Parkway
Mail Location 4221
Cincinnati, Ohio 45207-4221
Tel.: (513) 745-3950
Fax: (513) 745-3695
E-mail: Bangea1@xavier.edu

ACS Cincinnati SectionChair:

Mark Laskovics
mlaskovics@cinci.rr.com

1st Vice Chair & Chair-Elect:

Judson Haynes III

2nd Vice Chair:

Donna Wiedemann

Secretary:

Mike Annis

Treasurer:

Sam Glover

Trustees

Jackie Thomas
Kevin Ashley
Diana McGill

Dear Colleagues,

This is indeed a special year for us as 2017 marks the **125th Anniversary of the Cincinnati Section!** Cincinnati established a Chemical Society on 12 February 1877 while the American Chemical Society was founded on 6 April 1876. The Chemical Society of Cincinnati eventually decided to merge with ACS and made application for a Charter on 22 December 1891; the Cincinnati Section of ACS was granted a Charter on 29 March 1892. Cincinnati thus became the 3rd Local Section to hold an ACS Charter. Going forward, I will be soliciting volunteers to help with events to recognize this special achievement.

Our next meeting is on 23 February at Mount St. Joseph University. **Dr. Travis Falconer** of the FDA Forensic Chemistry Center will speak about regulation of Dietary Supplements. This is a topic recently in the news and will be of wide interest. Please plan to attend.

Mike Weaver, our Awards Chair, has put out a call for **Chemist and Technician of the Year** nominations. Please consider deserving colleagues for this special award. This is an excellent opportunity to get wider recognition for those special chemists or engineers within your respective organizations. The Awards will be presented at our March 30 meeting.

Another upcoming program in February is the **Go-Chem** Event during the weekend of 24 – 26 February. This State-wide Local Section networking forum will be held at the Kalahari Resorts in Sandusky. For those interested, the registration website is: <https://www.eventbrite.com/e/go-chem-1st-annual-family-retreat-tickets-29754443341>.

Looking into March, we have the **Southwest Ohio District Science & Engineering Expo** at the University of Cincinnati on March 11th. The Section gives three \$100 prizes to the best chemistry projects. This Science Fair

(Continued on page 3)

involves mainly students in Grades 7 to 9 with a few presentations from High School students. **I am looking for 4 volunteers** to review the abstracts, attend a breakfast meeting on the 11th, then judge the, usually, 6 to 12 chemistry projects and communicate the awards to the respective Expo Team Captains. The total time commitment is one Saturday morning as well as pre-reviewing the abstracts on-line. This is an excellent opportunity to get more involved in the Section. Please give this some consideration and let me know of your interest.

In addition, I want to comment now on **Earth Day** which will be on April 22nd this year. Because of all that is going on at the national level, interest is building nationwide to make this Earth Day a strong statement of our concern for the Environment and the planet we all share. Please keep this date in mind and let our Earth Day Chair, Donna Wiedemann, know of your interest in participating in this year's program.

Finally, I want to comment on the need for **Local Section Financial Support**. Benefactors have the opportunity to support the Local Section by becoming a Meeting Sponsor. In a direct way, the Sponsorship helps to defray the cost of meetings for Students and Retires as well as the venue costs. In an indirect way, Sponsorship helps to support the wide array of programs of the Section. The majority of these programs involve public outreach and education so this represents to opportunity to do something positive both for Science and for the Community. If your firm can help in this area, please contact our Meeting Sponsorship Chair, Ed Hunter (edhunter567@gmail.com)

Looking forward to seeing you at Mount St. Joseph University on the 23rd!

F. Mark Laskovics

Chair, ACS Cincinnati Local Section / Chartered 22 March 1892

mark.laskovics@gmail.com.

The featured speaker for the evening is Travis M. Falconer, Ph.D. Travis received a B.S. in Chemistry from the University of North Dakota (UND). As an undergrad, he performed summer research at Los Alamos National Laboratory on the use of Membrane Inlet Mass Spectrometry for the near real-time detection of volatile organic compounds in air and water, which he then implemented in his advisor's lab at UND. Travis proceeded to earn a Ph.D. in Chemistry from the University of North Carolina at Chapel Hill (UNC), where he studied the formation of ultracold ion-neutral complexes using superfluid helium nanodroplets. He transitioned from fundamental physical chemistry to analytical instrumentation during a two-year postdoctoral appointment at UNC. During this time, Travis developed micron-scale cylindrical ion trap mass spectrometers that were capable of operating at pressures several orders of magnitude higher than commercial instruments, resulting in reduced pumping and power requirements, enabling portability for numerous applications and subsequent commercialization of the technology.

Upon completion of his postdoctoral term at UNC, Travis joined the U.S. Food & Drug Administration (FDA) as a Chemist at the Forensic Chemistry Center (FCC) in Cincinnati, OH. Since joining the FDA, he has applied his mass spectrometry experience to the forensic analysis of food and drug samples submitted as evidence in criminal investigations, with specialization in non-targeted analysis of dietary supplements for the presence of harmful and/or unlabeled substances. In addition to sample analysis, his responsibilities include method development and validation for use with challenging analyte/matrix combinations, as well as for rapid response as part of the Food Emergency Response Network; direction of research projects focused on improving analytical capabilities, identifying novel compound analogs appearing on the market, and measuring unintentional contamination from packaging materials; instructing federal and state scientists in the theory and use of mass spectrometry; and providing expert testimony regarding the analysis of food and drug samples. Outside of his official duties, Travis also serves as a member of the American Society for Mass Spectrometry Education Committee and has enjoyed volunteering at the Cincinnati Regional Science Olympiad competition. Scientists at the FCC analyze numerous samples purporting to be "all-natural" and have identified a variety of harmful and/or unlabeled compounds therein, resulting in successful regulatory actions and criminal prosecutions. At the upcoming CINTACS meeting, Travis will provide background on the regulation of dietary supplements by the FDA and discuss several examples of the work being done on dietary supplements at the FCC, emphasizing the challenges associated with supplement analysis and highlighting noteworthy outcomes.



Please join us for our first ever multi-section ACS retreat. We hope this will be an opportunity for professionals and students to socialize and network, and families to have some fun. The formal programming is on Saturday so that everyone will have the opportunity to enjoy the water park on Sunday!

February 24-26th, 2017
Kalahari Resorts
Sandusky, OH



Registration information can be found at:

<https://www.eventbrite.com/e/go-chem-1st-annual-family-retreat-tickets-29754443341>

To reserve a hotel room (including your water park wrist bands) please contact Kalahari directly.

Please refer to GO-CHEM Family Event Block or Booking ID 28191

Front Desk Reservations: [419-433-7759](tel:419-433-7759) or Toll Free [877-525-2427](tel:877-525-2427)

- People wishing to present a poster should contact Jim Zubricky (James.Zubricky@utoledo.edu) no later than Feb. 17th.
- Student groups wishing to participate in the outreach activities should contact Lisa Ponton (lponton@bw.edu) no later than Feb. 17th.
- If you have any questions about the event please contact either Lisa Ponton or Jim Zubricky.

Weekend Agenda:

Friday Feb. 24

6-8 pm Welcome Gathering

Saturday Feb. 25

10-11 Resume workshop

11-1 Poster session with lunch (posters available for viewing through dinner)

2-5 Outreach activities for kiddos

6-8 Dinner with Keynote speaker and awards presentation

Sunday Feb. 26

9-11 am Farewell Gathering

This event was made possible by generous donations from the Toledo, Cleveland, Columbus, Dayton, Cincinnati, Akron, Penn-Ohio Border, Northwest Central, and Upper Ohio Valley, local sections of the American Chemical Society, as well as a generous award from the ACS Local Section Committee's IPG Award Committee.



Robertson Microlit Laboratories

Where speed and accuracy are elemental™

Elemental CHN, S, X, Analysis (*same day service*)

Metals by ICP-OES, ICP-MS, AA/AE

FTIR, UV/VIS Spectrometry

TGA, DSC, Melting Point/Range

Bioavailability

Polarimetry

Ion Chromatography, HPLC

KF Aquametry, Titrimetry

1705 US Highway 46 • Suite 1D • Ledgewood, NJ 07852 • 973.966.6668 • F 973.966.0136

www.robertson-microlit.com • email: results@robertson-microlit.com

Additional services available... Please call for information

Rapid Results • Quality • Accuracy • Competitive Pricing



- * GPC/SEC Analysis
- * GPC/SEC Polymer Standards
- * GPC/SEC Columns * Waters™ 150C Parts
- * WISP 710/712 Parts

Request your free catalog online

www.ampolymer.com

American Polymer Standards Corporation
8680 Tyler Blvd., Mentor, OH 44060

Phone: 440-255-2211

Fax: 440-255-8397



Shepherd

The Shepherd Color Company

We Brighten Lives

4539 Dues Drive
Cincinnati, Ohio USA
Tel: 1-513-874-0714
Fax: 1-513-874-5061
salesusa@shepherdcolor.com

www.shepherdcolor.com

**Lasting Color for a
Demanding World**

ARCTIC
Infrared Reflective Pigments

StarLight
Silver Coated Glass Flakes

DYNAMIX
DRY DISPERSION TECHNOLOGY



The Bioscience Event for Innovators and Intellectual Property Professionals

The Horseshoe Casino --- April 21, 2015

CincyBio is proud to welcome speakers this year from Eli Lilly & Co, Procter & Gamble, Finnegan, CincyTech, Cincinnati Children's Hospital Medical Center, Mintz Levin, and others.

CincyBio's speakers will cover such topics as *Withstanding Scrutiny During Biotech IPR and PGR*, *Natural Products Strategies for an Uncertain Future*, *International Strategies in Light of US Eligibility*, and *Protecting the IP of Future Biotech Innovation*.

CincyBio is geared towards not only attorneys, but also the innovators, entrepreneurs, and businesses that work tirelessly to bring their ideas and inventions to life.

<http://cincyip.org/cincybio-2015/>

 A photograph of a female scientist with red hair in a ponytail, wearing safety goggles and a white lab coat. She is focused on adjusting a piece of laboratory glassware, specifically a round-bottom flask containing a blue liquid, which is part of a larger apparatus. The background is a bright, clean laboratory setting.

Committed to Laboratories.

Praxair, the largest industrial, medical, and specialty gases supplier in North America, offers a comprehensive portfolio of gas products with the purity, compliance, and certification needed for your laboratory or research application. We work with users to implement the appropriate supply mode from a complete range of cylinder, dewar, microbulk, and bulk options and help protect the integrity of their high quality gases with Praxair's full line of ProSpec™ regulators, manifolds, delivery systems, and safety products.

Get new ideas for your lab!
Contact Roza Vilner, Specialty Gas Territory Manager



513-400-7498



Roza_Vilner@praxair.com



www.praxairdirect.com



Kinetica, Inc.

ISO 17025 Certified Thermoanalytical Testing Services for the Chemical Process Industry

**Kinetica provides testing and consulting services
for process safety and process development**

- Accelerating Rate Calorimetry
- Bomb Calorimetry
- Differential Scanning Calorimetry
- Solution Calorimetry
- Explosives and Pyrotechnics Analysis
- Large-scale SADT Testing
- Litigation Support

9560 North Dixie Highway • Franklin OH 45005 • Telephone: 937-743-3082 • Fax: 937-743-3652
www.thermochemistry.com



micron inc

ANALYTICAL SERVICES

**MATERIALS CHARACTERIZATION
MORPHOLOGY - CHEMISTRY - STRUCTURE**

3815 LANCASTER PIKE WILMINGTON DE. 19805

Voice 302-998-1184, Fax 302-998-1836

E Mail micronanalytical@compuserve.com

WEB PAGE : WWW.MICRONANALYTICAL.COM

**ADVANCED
· TESTING ·
LABORATORY**

- ▶ MICROBIOLOGY
- ▶ CHEMISTRY
- ▶ ON-SITE LAB SERVICES
- ▶ PROFESSIONAL SERVICES

6954 Cornell Road | Suite 200
Cincinnati, OH 45242
513.489.8447
513.489.9291 fax
ClientRelations@AdvancedTesting.net

VISIT
www.AdvancedTesting.net



**THE SCIENCE OF TESTING
THE ART OF SERVING**

American Chemical Society – Cincinnati Section

Xavier University
Department of Chemistry
3800 Victory Parkway
Cincinnati, Ohio 45207

**Non-Profit Org.
U.S. Postage
Paid
Cincinnati, Ohio
Permit #517**