

Turning Tables

The Official Newsletter of the American Chemical Society's Younger Chemists Committee

**Get Ready for #ACSDallas: Chemistry & Materials for Energy
247th ACS National Meeting & Exposition, March 16-20, 2014, Dallas, TX**

Congratulations all Spring 2014 CIBA Award Winners!

The CIBA/YCC Young Scientist Travel Award provides funding for young and early-career chemists to travel to and participate in an ACS national or regional meeting. The award is intended for young scientists (under 35) who have post-doctoral appointments OR are within the first seven (7) years of their professional career. Each award is for \$500. Awards are made on the basis of scientific merit and financial need. Be sure to hear the winners' presentations during the meeting:

Wen Zhang	“Influences of colloidal and photo-stability on photocatalytic H₂ generation of visible-light-driven water splitting system”—ENVR 152	Tuesday, March 18, 2014, 10:30-10:50 AM, Marriott Dallas City Center, Normandy A
Yijun Huang	“Strategies for the extension of plasma half life of the complement inhibitor compstatin”—MEDI 265	Wednesday, March 19, 2014, 7-10 PM, Dallas Convention Center, Hall F)

2014 Younger Chemist Leadership Developmental Award Winners

Each year, the YCC organizes a Leadership Development Workshop that is geared toward younger chemists and is held in conjunction with the ACS Annual Leaders' Conference as part of the ACS Leadership Development system. The Leadership Development Workshop is designed to help young chemists develop into highly skilled leaders in the Society and in their chosen profession. The YCC grants several Younger Chemist Leadership Development Awards that support ACS members who are less than 35 years of age to travel to and participate in the annual ACS Leadership Institute and the Leadership Development Workshop every January. This year, it was held from January 24-26th in Dallas, Texas.

Thomas Crouzier thomas.crouzier@gmail.com	Thomas Crouzier has received his Ph.D. from the University of Montpellier (France) and is now a Marie Curie postdoctoral fellow in the Biological Engineering department of MIT. His research is focused on the assembly of natural polymers for biomedical applications.
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	<p>He has authored 17 publications in international peer-reviewed journals, two book chapters and has three patents applications pending. Thomas is the recipient of the 2013 French biophysics society Young Researcher Award. He is also the 2012–2013 president of the MIT postdoctoral association, a postdoc-led organization dedicated to improving the postdoctoral experience of the 1400 MIT postdocs.</p>
<p>Christopher Cunningham chris.cunningham@cuw.edu</p>	<p>Dr. Cunningham is an Assistant Professor of Pharmaceutical Sciences at Concordia University Wisconsin School of Pharmacy. He earned his B.S. in Chemistry and Germanic Studies Cum Laude, from the University of Maryland, College Park. As a Doctoral Fellow, he earned his Ph.D. in Pharmaceutical Sciences from the University of Maryland School of Pharmacy in 2008. His dissertation focused on elucidating mechanisms of tolerance development to opioid analgesics. He conducted postdoctoral research with the Specialized Chemistry Center at the University of Kansas from 2008–2011. His current research interests lie in the design and synthesis of probes of opioid and cannabinoid pharmacology.</p>
<p>Anthony Estrada estrada.anthony@gene.com</p>	<p>Anthony Estrada graduated with a B.S. degree (Summa cum Laude) from the University of La Verne in 2003. He obtained his Ph.D. in organic chemistry from UCSD in 2008 under the supervision of Professor K. C. Nicolaou. Anthony currently works in the Discovery Chemistry Department at Genentech, Inc. He is an author on 18 publications, and co-inventor on two granted and ten published patents. He has served as Chemistry Team Leader on multiple programs, including LRRK2, which resulted in the first publically disclosed series of potent, selective and brain-penetrant LRRK2 inhibitors suitable for Parkinson’s disease pre-clinical studies.</p>
<p>Pedro Flores Gallardo pefloresgallardo@pima.edu</p>	<p>Pedro Flores Gallardo has a Bachelor’s degree in Chemistry from Minnesota State University, Moorhead. He is currently employed at Pima Community College, East Campus as Chemistry Laboratory Specialist, and also acting as co-advisor for the newly formed chemistry club. He is actively involved in science outreach activities in the community, the local ACS section and promoting STEM fields among students through events and groups or one-on-one discussions, especially with Hispanic students who are first generation college students and/or have</p>

	undecided majors.
Krystal Fontenot krystal.fontenot@ars.usda.gov	Krystal R. Fontenot obtained her B.S. degree in Chemistry from Southern University in 2007 and was the recipient of Student Research of the Year Natural Science Award. She went on to receive her Ph.D. in Chemistry from Louisiana State University in 2012, where she was awarded the National Science Foundation Bridge-to-Doctoral Fellowship. Her area of expertise includes organic chemistry, peptide chemistry, and <i>in vitro</i> studies. Currently, she holds the position of Research Chemist/Post-doc at the USDA in New Orleans and her research focuses on non-halogenated flame retardants that are durable and water-soluble for cotton textiles.
Matthew Grandbois mlgrandbois@dow.com	Matt Grandbois is an Associate Research Scientist within the Engineering & Process Sciences Organization of Core R&D for The Dow Chemical Company. He received his Ph.D. in Organic Chemistry from the University of Minnesota and holds Bachelor of Arts degrees in Chemistry (ACS) and Music Performance (Percussion) from Augustana College (Sioux Falls, SD). Matt was a 2008 Fulbright Scholar to the Norwegian Institute of Science & Technology (NTNU - Trondheim) where he studied globalization and its effect on technology in modern society.
Tiffany Gustafson tiffany.gustafson@chem.tamu.edu	Dr. Gustafson completed a B.A. in chemistry at Coe College in 2004, before obtaining her Ph.D. in Organic Chemistry from the University of Denver in 2010 under the mentorship of Professor Andrei Kutateladze. Her graduate studies focused on the design of ultra-sensitive fluorescence photoamplification assays, and developed a strong interest in fundamental research with a translational biomedical focus. Her interest in translational biomedical chemistry-based research has led her to her current position in the Wooley Lab at Texas A&M University, where she leads the development and <i>in vivo</i> evaluation of polymeric nanostructured optical probes as theranostic platforms.
James Harrington mhtroringjan@yahoo.com	Dr. James Harrington has coordinated the National Chemistry Week activities for the North Carolina Section of the American Chemical Society since 2011, in addition to other public outreach activities. Dr. Harrington is a Research Chemist in RTI International's Environmental and Industrial Sciences Division. In this capacity, he contributes to development of the pharmaceutical heavy metals testing program and other strategic areas of

	<p>interest to RTI's Trace Inorganics Department (TID). He has previously performed research with the U.S. Environmental Protection Agency (EPA) on trace metal bioavailability in contaminated soils and on small molecule-metal interactions during his postdoctoral and doctoral studies.</p>
<p>E. Ben Hay hay.eben@gmail.com</p>	<p>E. Ben Hay is a fifth year Ph.D. candidate at the University of Pittsburgh, advised by Dennis Curran. His thesis will involve work on sulfonyl radical chemistry and the rearrangements of vinylcyclopropanes. He is interested in the fundamental understanding of organic chemistry and using chemical tools to solve real-world problems.</p>
<p>Joseph Houck jdhouck@umd.edu</p>	<p>Joe graduated in 2013 with a Ph.D. in Chemistry from the University of Virginia under Dr. Timothy Macdonald. His dissertation research was synthesizing inhibitors of the sphingosine kinases as anticancer agents. He is currently fulfilling his passion for teaching as a Lecturer in Chemistry at the University of Maryland College Park. In graduate school, he volunteered teaching hands-on science lessons in local elementary school classrooms and plans to start a similar program at UMCP. A native of Pennsylvania, Joe enjoys hiking with his wife, Emma, and dog, Tildi.</p>
<p>Kirill Kovnir kkovnir@ucdavis.edu</p>	<p>Kirill Kovnir is an Assistant Professor at University of California, Davis since 2011. His main research interests are in the broad field of solid state and materials chemistry with emphasis on energy-related applications. He was born in Kirovograd, Ukraine in 1980. He received M.S. and Ph.D. in 2001 and 2004 with Prof. A. V. Shevelkov in the Lomonosov Moscow State University. He broadened his scientific horizons by postdoctoral research with Prof. Yu. Grin (MPI for Chemical Physics of Solids, Dresden), Prof. R. Schlögl (Fritz-Haber-Institute of the MPS, Berlin) and Prof. M. Shatruk (Florida State University, Tallahassee).</p>
<p>Charity Lovitt chariteach@gmail.com</p>	<p>As an educator, Charity specializes in teaching science to non-scientists. She volunteers in the Science Interpretation program at the Pacific Science Center and with the American Chemical Society. Charity currently directs a grant for the local (Puget Sound) section of the American Chemical Society on Climate Change Communication for Chemists, a series of workshops and events to help chemists learn the science of climate change and develop activities to teach these principles to non-scientists. Charity's research uses quantum</p>

	mechanical methods to apply bonding paradigms to predict reactivity in transition metal complexes.
John McKeen jcmckeen@dow.com	John McKeen is an Associate Research Scientist in Dow Solar and part of the team that commercialized Dow's revolutionary POWERHOUSE™ solar shingle. John began his career with Dow in 2009, completing projects in Core R&D, Water and Process Solutions, and Electronic Materials. John, a Hertz and NSF fellow, completed his Ph.D. under the advisement of Mark E. Davis at Caltech, a MSEE degree under the advisement of C. Daniel Frisbie and P. Paul Ruden at the University of Minnesota and B.S. degrees in Chemical Engineering and Electrical Engineering, Summa cum Laude with High Honors at the University of Minnesota.
Jennifer Schmitt jschmitt1531@gmail.com	Jennifer Schmitt was born in College Station, Texas. She received her B.S. in Chemistry from Stevenson University, where she developed her skills as a facilitator and manager through student leadership. She is currently a Ph.D. candidate in Chemistry at the University of Nevada, Reno. She works for Dr. Jason Shearer, where she studies the formation and reactivity of a novel Fe-peroxynitrite species. She is an active board member of the Chemistry Graduate Student Association (CGSA). Recently, her goals include setting up the LSYCC, as well as increasing our community outreach for the sciences.
Elizabeth Stone betsy-stone@uiowa.edu	Elizabeth A. Stone is an Assistant Professor in the Department of Chemistry at the University of Iowa. Her research on the composition and sources of particles in the atmosphere lies at the intersection of analytical, environmental and organic chemistry. She serves as Secretary of the local Iowa chapter of the ACS and leads education and outreach initiatives centered on communicating the scientific principles of climate change and local environmental issues.
Phumvadee Wangtrakuldee (Beau) pwangtrakuldee@niu.edu	Phumvadee (Beau) Wangtrakuldee is a Ph.D. candidate in the field of biochemistry and medicinal chemistry at Northern Illinois University. Her two current projects are focused on discovery of methionine aminopeptidases (MetAPs) inhibitors against Burkholderia pseudomallei and Plasmodium falciparum towards generating novel antibacterial and antimalarial agents. Previously, Beau served as a research intern at Michigan State University investigating ways to improve the total synthesis of Phomactin B2, a known anticonvulsant compound. She also worked as a research intern at Kalsec Inc. conducting

	various food chemistry experiments, overlooking HPLC sample analysis and performing synthesis of iso- α -acid standard (ICS-13) for the international brewing committee.
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Undergraduate Leadership Developmental Award Winners

Adebanjo Adedoja University Of Louisiana at Monroe <i>adedojan@warhawks.ulm.edu</i>	Christopher Albright Saint Francis University <i>Cxa100@francis.edu</i>
Dominick Alton University of Detroit Mercy <i>altondj@udmercy.edu</i>	Bayan Baker Sarah Lawrence College <i>bbaker1@gm.slc.edu</i>
Sara Dampf University of New Haven <i>sdamp1@unh.newhaven.edu</i>	Keith Frogue Pasadena City College <i>kfrogue@yahoo.com</i>
Austin Green Texas Christian University <i>austin.l.green@tcu.edu</i>	Caitlyn Hazlett University of Oregon <i>catrosehazlett@gmail.com</i>
Lauren McCarthy University of Florida <i>lorim384@ufl.edu</i>	Lydia Mensah Xavier University of Louisiana <i>lmarylyn@yahoo.com</i>
Ana Perez East Los Angeles College <i>anaperez_023@yahoo.com</i>	Richa Rana Rutgers University <i>richa93@gmail.com</i>
Alex Rizo University of Michigan-Flint <i>arizo@umflint.edu</i>	Megan Schoenberger St. John's University <i>megan.schoenberger12@stjohns.edu</i>
Mary Waddington Kent State Univeristy <i>Mwadding@kent.edu</i>	Amber Williamson Catawba College <i>awilliamson219@gmail.com</i>

Volunteer for the ACS Undergrad Speed Networking Session!

Are you a chemistry professional who is interested in volunteering to participate in the Undergraduate Speed Networking with Chemistry Professionals event, Monday, March 17 from 3:45 - 5:15 pm at the 247th ACS National Meeting in Dallas, TX? Sign up to talk to undergraduates about the next steps to becoming successful. Register at <http://fs16.formsite.com/student/form102/index.html>, or just show up! Refreshments will be provided.

News from ACS's Graduate and Postdoctoral Studies Group

Graduate & Postdoctoral Scholars Reception

Monday, 7:00–8:30 PM

Dallas Convention Center, Ballroom C2

Network with fellow graduate students and postdocs, as well as ACS Divisions, YCC representatives, and ACS staff!

Free food, drinks, and prizes!

Organized by ACS GPSO and M&SA

Cosponsored by ACS Divisions and YCC

Want to stay connected with the Younger Chemists Committee?

Like us on Facebook: <https://www.facebook.com/YCC.ACS>

Follow us on Twitter: https://twitter.com/ycc_acs



247th ACS National Meeting and Exposition Dallas, Texas



SOCIAL		SYMPOSIA	
Saturday, March 15, 2014	Sunday, March 16, 2014	Tuesday, March 18, 2014 (continued)	
ACS Guerrilla Bar Event 7:00 PM Visit YCC Website or Facebook Page on the Day of Event for location	Service Learning Focused on Chemistry & the Environment* 8:30 – 11:50 AM Marriott Dallas City Center, Plaza Ballroom A	Poster Session (POLY)** 6:00 – 8:00 PM Dallas Convention Center, Hall E	
Sunday, March 16, 2014	Excellence in Graduate Polymer Research (POLY)** 8:30 – 11:45 AM OR 1:00 – 5:45 PM Hyatt Regency Dallas, Reverchon A/B	Yijun Huang - 265 - Strategies for the extension of plasma half life of the complement inhibitor compstatin (MEDI) 7-10 PM – CIBA AWARD WINNER Dallas Convention Center, Hall F	
Networking Social with Graduate School Recruiters 7:00 – 5:00 PM Hyatt Regency Dallas	Starting a Successful Graduate Research Program in a Predominantly Undergraduate Institution (CINF)** 1:00 – 4:20 PM Sheraton Dallas, Majestic 3	Wednesday, March 19, 2014	
Undergraduate Social 7:30 – 11:00 PM Hyatt Regency Dallas	Monday, March 17, 2014	Wen Zhang - 152 - Influences of colloidal and photo-stability on photocatalytic H ₂ generation of visible-light-driven water splitting system (ENVR) 10:30 AM – CIBA AWARD WINNER Marriott Dallas City Center, Normandy A	
Monday, March 17, 2014	Excellence in Graduate Polymer Research* 8:30 – 11:45 AM OR 1:00 – 4:10 PM Hyatt Regency Dallas, Reverchon A/B	CAREER WORKSHOPS	
International Chemistry Trivia with prizes 7:00 – 2:00 PM Marriott Center in the Expo at the Convention Center	Tuesday, March 18, 2014	Monday, March 17, 2014	
i-Mix 7:00 – 10:00 PM Dallas Convention Center	Ethical Considerations in Digital Scientific Communication and Publishing (CINF)** 8:00 AM - Noon Omni Dallas Hotel, Deep Ellum A	How to Network (SOCED)** 10:45 AM to Noon Dallas Convention Center D167/D174	
ACS Guerrilla Bar Event 7:00 PM Visit YCC Website or Facebook Page on the Day of Event for location	Earle B. Barnes Award for Leadership in Chemical Research Management: Symposium in Honor of William F. Banholzer (I&E)** 8:00 AM – 12:45 PM Dallas Convention Center, Room C146	Career Pathways in the Environmental Sciences (CINF)** 8:00 – 11:40 AM OR 1:00 – 4:05 PM Sheraton Dallas, Majestic 4	
Upcoming Award Deadlines: Moscilla Carney Jones Scholarship - MAY 1 BA/YCC Young Scientists Travel Award - MAY 15	Excellence in Graduate Polymer Research (POLY)** 5:30 – 7:30 PM Dallas Convention Center, Hall A	Speed Networking 3:45 – 5:15 PM Dallas Convention Center	
http://ycc.sites.acs.org		Wednesday, March 19, 2014	
Visit the ACS Career Services website at:		Benefits of Undergraduate Internships (SCHB)** 1:30 – 4:00 PM Sheraton Dallas, Lone Star Ballroom C4	