Newsletter Fall 2023

AMERICAN CHEMICAL SOCIETY

DIVISION OF CARBOHYDRATE CHEMISTRY AND CHEMICAL GLYCOBIOLOGY

2024 ACS CARB AWARDS

CONGRATULATIONS TO PROFESSSOR ALEXEI DEMCHENKO ON RECEIVING THE 2024 MELVILLE L. WOLFROM AWARD!

Professor Alexei Demchenko, in the Department of Chemistry at Saint Louis University and the Immediate Past Chair of the ACS CARB Division, has received the 2024 Melville L. Wolfrom award for outstanding service to CARB and the field of carbohydrate chemistry.

Professor Demchenko was born (1965), raised, and educated in Moscow, Russia. He graduated from the Mendeleev University of Chemical Technology of Russia with a Diploma (M.S.) in Chemical Engineering (1988) before joining the laboratory of the late Professor Kochetkov at the Zelinsky Institute of Organic Chemistry in Moscow. In 1993, he was awarded a Ph.D. in organic chemistry by the Russian Academy of Sciences for his work on the development of thiocyanate methodology for glycosylation. After two post-doctoral years under Kochetkov, he joined Professor Boons' group at the University of Birmingham (UK) as a BBSRC post-doctoral research fellow. In 1998, he moved to the Complex Carbohydrate Research Center, University of Georgia (USA) as a research associate. In 2001, he joined the faculty at the University of Missouri - St. Louis (UMSL) as an Assistant

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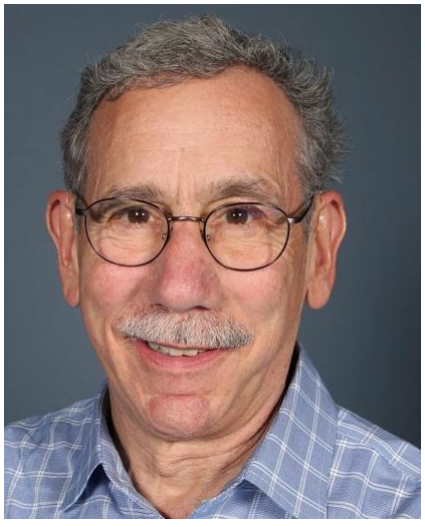
FUTURE NEWSLETTERS
The Carbohydrate Division Newsletter is published twice a year, just before the two annual National ACS meetings. If you have items for inclusion in future, please send the information to:

Secretary & Newsletter Editor
Kamil Godula: kgodula@ucsd.edu

Professor where he was promoted to the rank of Associate Professor with tenure (2007) and Professor (2011). In 2014, Demchenko was appointed Curators' Distinguished Professor of Chemistry and Biochemistry. In 2021, Demchenko joined the faculty at Saint Louis University as Professor and Department Chair.

Professor Demchenko has co-authored 225 articles (Scopus *H*-index 47, Scholar *H*-index 51) and has given 170 invited lectures and seminars in the U.S. and abroad. His research interests are in the area of synthetic carbohydrate chemistry that include: streamlined synthesis of carbohydrate building blocks; novel glycosylation reactions; methods for stereocontrolling the glycosidic bond formation; strategies for expeditious assembly of complex glycans and glycoconjugates; synthetic vaccines and glycopharmaceuticals; human milk oligosaccharides and other food additives and ingredients; solid phase and automated synthesis; modification and conjugation of glycans to protein carriers, surfaces, and nanoparticles. His research program has been funded by grants from a variety of sources totaling $11M. Professor Demchenko has served in many editorial roles and organized several international conferences including the 2015 Gordon Research Conference on Carbohydrates. From 2019, he has served as President of the U.S. Advisory Committee for the International Carbohydrate Symposia. Professor Demchenko was the 2020-2021 Chair of the Division of Carbohydrate Chemistry of the American Chemical Society. Demchenko is the National Representative of the USA for the International Carbohydrate Organization.

CONGRATULATIONS TO DR. ANDREW LEES ON RECEIVING THE 2024 DEREK HORTON AWARD FOR OUTSTANDING CONTRIBUTIONS TO INDUSTRIAL CARBOHYDRATE CHEMISTRY!



Dr. Andrew Lees is the founder and CEO of Fina Biosolutions, LLC (Rockville, MD), a company focused on promoting affordable conjugate vaccines, a class which includes vaccines for S. pneumoniae and meningococcal disease. Among his contributions to the field, Dr. Lees developed CDAP chemistry for activating carbohydrate hydroxyls, allowing for the efficient linking of proteins to polysaccharides. The chemistry has helped to reduce the cost of these vaccines as proteins can be directly coupled to CDAP-activated polysaccharides, eliminating many manufacturing steps. CDAP has largely replaced the older cyanogen bromide method and is now widely used in conjugate vaccines. CDAP chemistry also scales more easily than other conjugation chemistries and has enabled the manufacture of the Serum Institute of India's low-cost pneumococcal and meningococcal vaccines, Pneumosil® and MenFive®, respectively. At Fina Biosolutions, Dr. Lees also introduced a low-cost version of CRM197, a genetically detoxified diphtheria toxin commonly used as the protein component of protein-polysaccharide

conjugate vaccines, increasing access to the protein for both basic research and vaccine manufacturers.

Before starting Fina Biosolutions in 2006, Dr. Lees was Director of Vaccine Development at biotech companies Virion Systems, Inc (1993-1999) and Biosynexus, Inc (1999-2006). He was also an associate research professor at the Uniformed Services University (1993-1999). Andrew is now an adjunct professor at the University of Maryland School of Medicine Center for Vaccine Development, the Uniformed Services University, Dept. of Medicine, and the University of Toledo, Dept of Chemistry. He has over 75 publications and 25 patents, primarily in the subject area of conjugate vaccines. He received his BS in chemistry from Harvey Mudd College in chemistry (1976) and his Ph.D. in Biophysics from Johns Hopkins (1984). Honors include the Uniformed Services Meritorious Service Award, the Harvey Mudd College Outstanding Alumni Award, and the Johns Hopkins University Distinguished Alumnus Award. On graduating from Hopkins, he was on the cover of Baltimore Magazine as one of "84 people to watch in '84" due to his role as a leading Baltimore area magician.

CONGRATULATIONS TO PROFESSOR WEN YI ON RECEIVING THE 2024 HORACE S. ISBELL AWARD!

Professor Wen Yi is the recipient of the 2024 Horace S. Isbell Award for Excellence in and promise of continued quality of contribution to research in carbohydrate chemistry.

Dr. Wen Yi is currently Professor of Biochemistry at the College of Life Sciences of Zhejiang University. He received his bachelor's degree in polymer science at Fudan University in 2002. He carried out the doctoral study and received his Ph.D. degree at the Ohio State University under Prof. Peng G. Wang in 2008. He then worked as a postdoctoral fellow at the California Institute of Technology with Prof. Linda C. Hsieh-Wilson, before joining Zhejiang University as an independent investigator in 2013. Prof. Yi's research focuses on developing chemical/biochemical tools to probe the spatiotemporal dynamics of glycosylation and elucidating the function of glycosylation in human health and diseases. His work has been recognized with several awards, including International Glycoconjugate Organization (IGO) Young Glycoscientist Award (2013), "Zhang Shuzheng" Young Glycoscientist Award from the Chinese Bioengineering Society (2021), Young Innovator's Award from the "Hui Yongzheng" Glycoscience Foundation (2022), and National Science Fund for Distinguished Young Scholars (2023).

CONGRATULATIONS TO PROFESSORS JESSICA KRAMER AND JIA NIU ON RECEIVING THE 2023 DAVID Y. GIN YOUNG INVESTIGATOR AWARD!

This year The Division has decided to award TWO Gin Awards due to a very high number of highly qualified nominees.

Professor Jessica Kramer obtained her Honors B.S. in Chemistry from the University of Utah and her Ph.D. in Organic Chemistry from UCLA under the direction of Prof. Tim Deming. She joined the lab of Prof. Carolyn Bertozzi at Stanford and the University of California Berkeley as an NIH and University of California Chancellor's postdoctoral Fellow. Prof. Kramer began her independent career at the University of Utah in the Department of Biomedical Engineering in 2017. Her lab utilizes a combination of polymer chemistry and protein engineering to probe fundamental questions in mucin glycobiology relevant to cancer and infection processes. She is the recipient of the Marion Milligan Mason Award (2022), an NIH MIRA (2022), an NSF RAPID (2020), an NSF CAREER Award (2018), Dream Chemistry Award (2017), an NIH NRSA (2015), and the Henkel Award in Polymer Chemistry (2015).

Professor Jia Niu is an assistant professor of chemistry in Boston College. Jia obtained a B.S. degree (2005) and a M.S. degree (2008) from Tsinghua University in China. He then moved to the United States to pursue a PhD degree at Harvard University, working with Professor David R. Liu. After completing postdoctoral training in the laboratories of Professor Craig Hawker and Professor Tom Soh at University of California, Santa Barbara, Jia joined the faculty of Boston College in 2017. Currently, Jia and his group work on developing synthetic approaches to precision polysaccharides and glycomimetic polymers, understanding functional roles of sulfation patterns in biomacromolecules, and the directed evolution of functional nucleic acids. Jia is a recipient of Camille Dreyfus Teacher-Scholar Award (2023), ACS PMSE Young Investigator Award (2021), NSF CAREER Award (2020), NIH Director's New Innovator Award (2019), and the Beckman Young Investigator Award (2019).

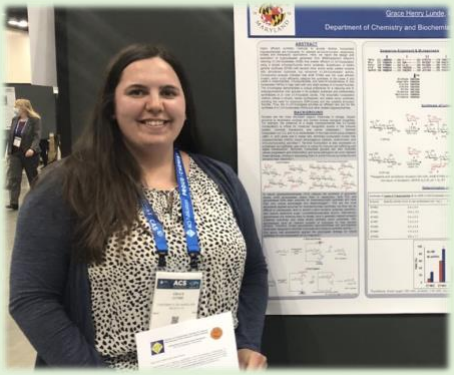
Congratulations to all Award recipients! We look forward to celebrating their success at the Spring 2024 ACS National Meeting in New Orleans!

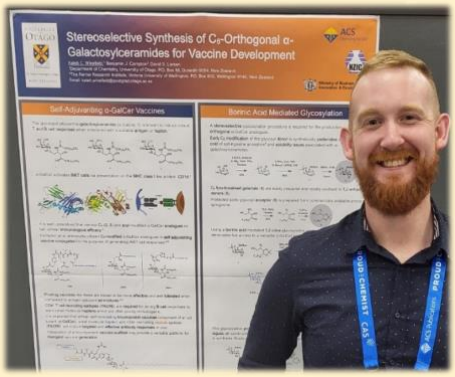
CONGRATULATIONS TO CARB DIVISION POSTER AWARDEES

FROM THE SPRING 2023 ACS NATIONAL MEETING!

Grace Lunde
Chemistry and Biochemistry
University of Maryland at College Park

Engineering a novel a-glycoligase for chemoenzymatic synthesis of a1,3/4-fucosylated oligosaccharides



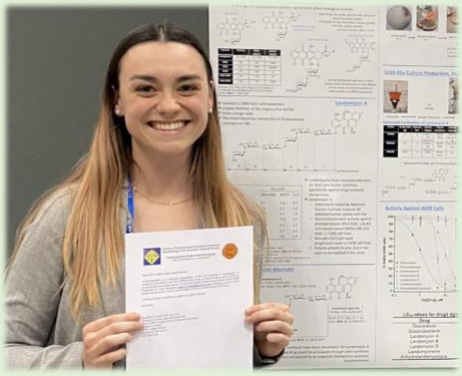


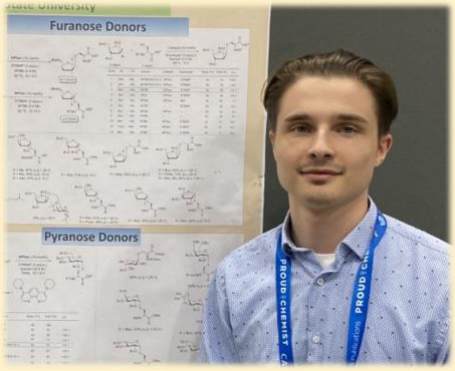
Kaleb Winefield
Department of Chemistry
University of Otago

Stereoselective synthesis of 6''-orthogonal a-galactosylceramides for vaccine development

Kathleen Maiello
Department of Chemistry
Tufts University

The improved purification and logical structural derivatization of Landomycin A, an angucycline antibiotic





Cyrus Alan Lee
Department of Chemistry,
Wayne State University

Phenanthroline-catalyzed 1,2-cis S-linked glycosylations

CARBOHYDRATES IN THE NEWS

PROFESSOR LAURA KIESSLING NAMED THE 2023 RONALD BRESLOW AWARD RECEPTIENT FOR ACHIEVEMENT IN BIOMIMETIC CHEMISTRY!

Professor Laura Kiessling, the Novartis Professor of Chemistry, Massachusetts Institute of Technology, was awarded the 2023 Ronald Breslow Award for Achievement in Biomimetic Chemistry for developing and deploying innovative glycoprotein biomimetics that have illuminated signaling pathways in bacteria and humans and have opened new therapeutic avenues.

Professor Kiessling uses chemical biology to elucidate the biological roles of carbohydrates such as glycoproteins that make up mucus and the cell surface carbohydrate coats of bacteria, with applications in manufacturing and medicine.

She received her Sc.B. degree in chemistry from MIT and then earned a Ph.D. in chemistry at Yale University. She was an American Cancer Society postdoctoral fellow at the California Institute of Technology. After serving as a faculty member at the University of Wisconsin–Madison, she joined MIT in 2017. Recently Professor, Kiessling was awarded the Royal Society of Chemistry's Centenary Prize and was elected to the National Institute of Medicine.

Please join me in congratulating Professor Kiessling!

CONGRATULATIONS TO PROFESSOR CAROLYN BERTOZZI ON BEING AWARDED THE 2024 ACS PRIESTLEY MEDAL!

Professor Carolyn R. Bertozzi has been selected as the recipient of the 2024 Priestley Medal. The medal is the highest honor awarded by ACS and annually recognizes an individual for distinguished services to chemistry. Bertozzi receives the award "for pioneering research in bioorthogonal reactions and their applications in studying living organisms and developing therapeutics, and for mentoring a generation of outstanding chemists."

A talented, accomplished and passionate chemist, Bertozzi has received dozens of awards and honors, including the 2022 Nobel Prize in Chemistry, which she shared with Morten Meldal and K. Barry Sharpless.

Through her ingenious and prolific research, Bertozzi created the field of biorthogonal reactions, which opened the doors to studying disease at the molecular level. This breakthrough has allowed for chemical manipulations inside of living cells without disrupting their operations, thus promoting more effective means of developing chemical tools to address diseases like cancer, inflammation, tuberculosis and viral infections such as COVID-19.

Please join me in congratulating Professor Bertozzi!

PROFESSOR JAMES PAULSON WINS THE TAMIO YAMAKAWA AWARD

Professor James Paulson was awarded the Yamakawa Award by the Japan Consortium for Glycobiology and Glycotechnology (JCGG). The JCGG established the Tamio Yamakawa Award to honor the distinguished career of Professor Tamio Yamakawa and his outstanding contributions to the field of Glycoscience. This international award is presented every two years to a glycoscientist who has made widely recognized and significant contributions to the field of Glycoscience and is, in principle, a currently active researcher.

2022, the 4th Tamio Yamakawa Award has been decided by the selection committee and JCGG executive board to go to Dr. James C. Paulson, Professor of The Scripps Research Institute, who has made seminal contributions to our understanding of how glycans contribute to viral infections and the immune system. The award ceremony and Tamio Yamakawa Award Lecture will be held at the 20th JCGG Symposium November 30, 2023, in Tokyo.

The 2016 Tamio Yamakawa Award, the first award, was presented on November 1, 2016, to Prof. Markus Aebi of ETH Zurich; the 2018 Award on November 26, 2018, to Prof. Gerald W. Hart of CCRC; and the 2020 Award on December 7, 2021, to Prof. Kevin P. Campbell of University of Iowa.

REPORTS FROM THE FIELD

UCSD GRADUATE STUDENT, JULIANNA FOLLMAR, RECEIVES ACS WOMEN CHEMISTS COMMITTEE (WCC) AND ELI LILLY TRAVEL AWARD TO ATEND THE FALL ACS MEETING IN SAN FRANCISCO

The ACS Women Chemists Committee (WCC) and Eli Lilly and Company sponsor a program to provide funding for undergraduate, graduate, and postdoctoral female chemists to travel to meetings to present the results of their research. Through this program, WCC and Eli Lilly and Company continue to increase the participation of women in the chemical sciences.

Awards are made on the basis of scientific merit and financial need. In addition to financial support, the award provides networking opportunities for recipients who attend an ACS national meeting. The WCC hosts a poster session and reception for awardees at each national meeting. In addition, awardees are invited to the WCC Luncheon where they receive recognition. The luncheon also provides a valuable networking opportunity as awardees sit at the head tables along with ACS governance and WCC members. Lastly, awardees are invited to a private dinner with WCC members which is generously sponsored by the ACS Executive Director.

Juliana will present her work on heparan sulfate mimetic materials during a symposium on "Advances in Glycomaterials for Biomimicry and Biomedicine" co-sponsored by the CARB and PMSE Divisions.

MEET THE GLYCOSCIENTIST

Putting the Glycocalyx in the Spotlight

Dr. Kayvon Pedram

Group Leader, Janelia Research Campus, Howard Hughes Medical Institute (HHMI)

Dr. Kayvon Pedram was born in Los Angeles. He received his S.B. in chemistry in 2015 from MIT, where he worked with Prof. Alice Ting on proximity ligation enabled proteomic mapping of the axon initial segment, as well as development of peptide enrichment workflows for mass spectrometry-based identification of labeled sites on proteins (PMID: 29039416).

Dr. Pedram next returned to California to join Prof. Carolyn Bertozzi's lab at Stanford as an NSF Graduate Fellow, Stanford Graduate Fellow, and ChEM-H Graduate Fellow. There, he contributed to the development of bacterial mucinase enzymes as research tools (PMID: 30910957) and therapeutic candidates (DOI: 10.1101/2022.05.20.492748) and identified a human enzyme capable of proteolytic mucin digestion (PMID: 36122205). In collaboration with Prof. W.E. Moerner and his group, Kayvon explored super-resolution imaging of cell monolayer surface glycans (PMID: 31105009), where he and the team found correlations between oncogene expression and altered glycocalyx structure. He received his Ph.D. in Chemistry in 2020.

Dr. Pedram started his lab in the Molecular Tools and Imaging area of the Howard Hughes Medical Institute's Janelia Research Campus in 2021. The lab takes the view that advanced imaging is poised to contribute substantively to understanding of extracellular physiology and pathology, if (i) tailored imaging methods for application to the glycocalyx and extracellular matrix of multicellular systems can be developed, and (ii) the unique biomolecular properties of glycans can be leveraged to enable new measurements in extracellular spaces. Current projects center on biosensor design, live super-resolution microscopy, and (cryo-)electron microscopy, with the aim of characterizing extracellular super-molecular assemblies that play key roles in chemical and mechanical signaling in the brain and other tissues. For more information, please visit https://www.pedramlab.com/.

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UPCOMING MEETINGS

American Chemical Society
National Meeting & Exposition

FALL 2023 ACS NATIONAL MEETING

San Francisco, CA, August 13-17, 2022

The CARB program for the Fall ACS National Meeting in San Francisco, CA has been published. Please support the Carbohydrate Division by attending these symposia:

August 13, 2023 (Sunday):

Morning:
New Advances for Synthesis of Complex Oligosaccharides and Glycoconjugates in Memory of Raymond Lemieux for his 100 Year-Old Birthday: 08:00am - 12:15pm USA / Canada - Pacific - August 13, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Xuechen Li, Organizer, Presider; **Jianglong Zhu**, Organizer

- Featuring Todd Lowary, Yukishige Ito, Peter Seeberger, Xuefei Huang, Clay Bennett, David Crich, Jianglong Zhu, Indrajeet Sharma, Zhongwu Guo

Advances in Glycomaterials for Biomimicry and Biomedicine:
08:00am - 11:50am USA / Canada - Pacific - August 13, 2023 | Location: Salon 14-15 (San Francisco Marriott Marquis)

Cassandra Callmann, Organizer, Presider; **Kamil Godula**, Organizer
Co-sponsored by [PMSE] Division of Polymeric Materials Science and Engineering

- Featuring Laura Kiessling, Jessica Kramer, Remzi Becer, Peter Seeberger, Jia Niu, Julianna Follmar,

Afternoon:
New Advances for Synthesis of Complex Oligosaccharides and Glycoconjugates in Memory of Raymond Lemieux for his 100 Year-Old Birthday:
02:00pm - 06:00pm USA / Canada - Pacific - August 13, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Xuechen Li, Organizer; **Jianglong Zhu**, Organizer, Presider

- Featuring Nicola Pohl, Xuechen Li, George O'Doherty, Yasuhiro Kajihara, Steve Sucheck, Mario Monteiro, Chang-Chun Ling, M. Carmen Galan, Tania Lupoli

Advances in Glycomaterials for Biomimicry and Biomedicine:
02:00pm - 05:50pm USA / Canada - Pacific - August 13, 2023 | Location: Salon 14-15 (San Francisco Marriott Marquis)
Cassandra Callmann, Organizer, Presider; **Kamil Godula**, Organizer
Co-sponsored by Division: [PMSE] Division of Polymeric Materials Science and Engineering

- Featuring Ben Davis, Meg Critcher, Mia Huang, Greg Hudalla, Cole Williams, Ratmir Derda, Isaac Krauss, Mads Clausen,

Evening:
CARB General Poster Session:
07:00pm - 09:00pm USA / Canada - Pacific - August 13, 2023 | Location: Hall F, South Bldg. (Moscone Center)
Prof. Danielle Dube, Organizer

August 14, 2023 (Monday):

Morning:
Advances in Carbohydrate Synthesis Lead to New Research & Therapeutic's Opportunities in the Glycosciences:
08:00am - 11:35am USA / Canada - Pacific - August 14, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Clay Bennett, Organizer; **Pamela Marino**, Organizer; **Dr Hien M Nguyen**, Organizer, Presider (CARB/ORGN)

- Featuring David Crich, Charlie Fehl, Clay Bennett, Alice Walker, Geert-Jan Boons, Mia Huang, Weiping Tang, Carlito Lebrilla,

Afternoon:

Advances in Carbohydrate Synthesis Lead to New Research & Therapeutic's Opportunities in the Glycosciences:
02:00pm - 05:45pm USA / Canada - Pacific - August 14, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Clay Bennett, Organizer, Presider; **Pamela Marino**, Organizer; **Dr Hien M Nguyen**, Organizer (CARB/ORGN)

- Featuring Chi-Huey Wong, Alexei Demchenko, Catherine Grimes, Xi Chen, Matthew Pratt, Liming Zhang, Derek Macmillan, Laura Kiessling

Evening
Sci-Mix (8:00pm-10:00pm)

August 15, 2023 (Tuesday):

Morning:
New Advances in the Therapeutic Applications of Glycans:
08:00am - 12:00pm USA / Canada - Pacific - August 15, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Peng Wu, Organizer, Presider

- Featuring Ao Wang, Jie Li, Luc Teyton, Carolyn Bertozzi, Matthew Macauley, Chi-Huey Wong

Advances in Carbohydrate Synthesis Lead to New Research & Therapeutics Opportunities in the Glycosciences:
08:00am - 12:15pm USA / Canada - Pacific - August 15, 2023 | Location: Room 8, South Bldg. (Moscone Center)
Pamela Mario, Organizer, Presider; **Dr Hien M Nguyen**, Organizer (CARB/ORGN)

- Featuring Eric Jacobsen, John Montgomery, Hien Nguyen, Steven Townsend, Maciej Walczak, Nicola Pohl, Linda Hsieh-Wilson, Peter Seeberger,

Afternoon:
CARB General Poster Session:
12:00pm - 02:00pm USA / Canada - Pacific - August 15, 2023 | Location: Virtual Poster Row 1 (Virtual Only)
Prof. Danielle Dube, Organizer

New Advances in the Therapeutic Applications of Glycans:
02:00pm - 04:45pm USA / Canada - Pacific - August 15, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Peng Wu, Organizer, Presider

- Featuring Robert Sackstein, Lara Mahal, Madison Anonick, Jiaoying Jiang, James Paulson

August 16, 2023 (Wednesday):

Morning:
Advancing Women's Health Through Glycoscience:
08:00am - 11:45am USA / Canada - Pacific - August 16, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Kamil Godula, Organizer, Presider; **Catherine Grimes**, Organizer; **Steven Townsend**, Organizer

- Featuring Mia Huang, Charlie Fehl, Irene Lepori, Abigail Reeves, Carolyn Bertozzi, Stacy Malaker, Flavio Schwartz

Afternoon:
Advancing Women's Health Through Glycoscience:
02:00pm - 05:20pm USA / Canada - Pacific - August 16, 2023 | Location: Room 313, South Bldg. (Moscone Center)
Kamil Godula, Organizer; **Catherine Grimes**, Organizer; **Steven Townsend**, Organizer, Presider

- Featuring Amanda Lewis, Katharina Ribbeck, Liubov Yakovlieva, Caroline Williams, Carlito Lebrilla, Philip Gordts, Ashlyn Hillman

SPRING 2024 ACS NATIONAL MEETING

American Chemical Society
National Meeting & Exposition

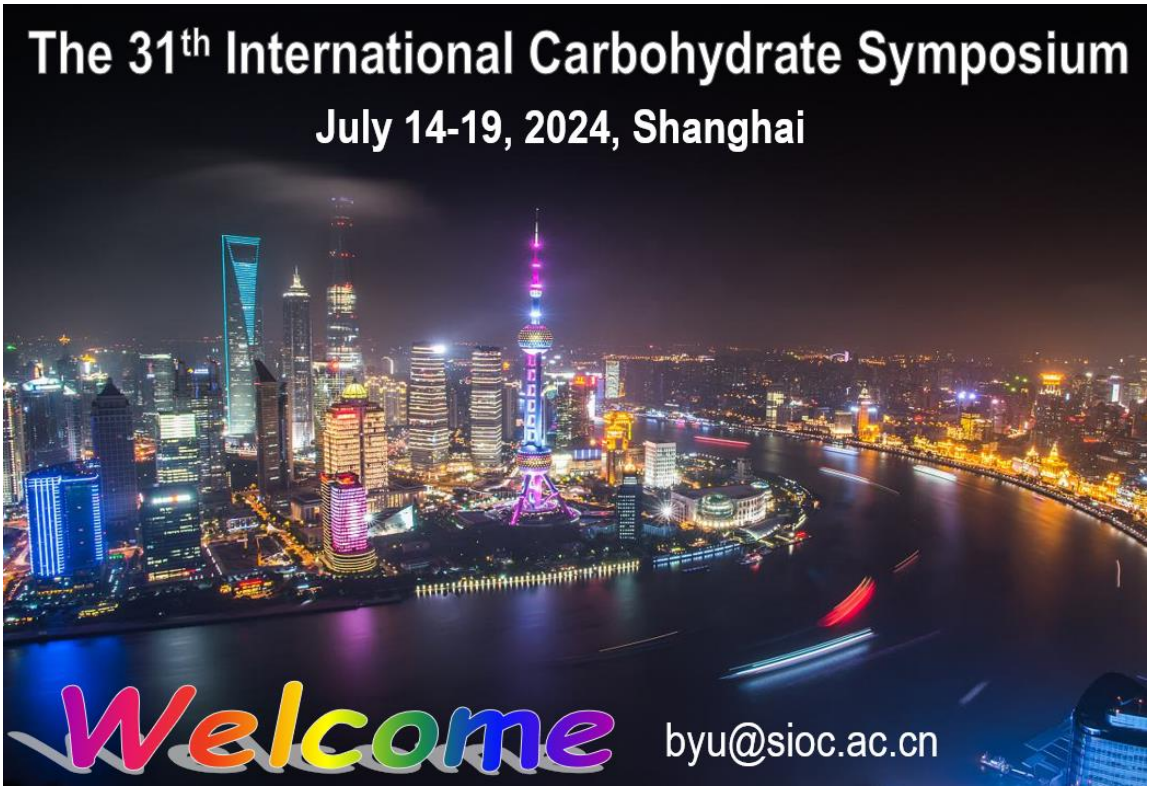
New Orleans, LA Dates: March 17-21, 2024

Scheduled Symposia:

- Gin New Investigator & Derek Horton Award, organized by Steve Sucheck
- Horace S. Isbell & Melville L. Wolfrom Award, organized by Steve Sucheck
- Women in CARB, organized by Danielle Dube & Catherine Grimes
- Glycomimetic lectin inhibitors – General aspects and therapeutic applications, organized by Beat Ernst & Christoph Rademacher
- Nucleosides, Nucleotides, and RNA emerging viruses, organized by Luigi Agrofoglio

Call for abstracts will open mid-August and close in mid-October.

From the U.S. Advisory Committee for the International Carbohydrate Symposia (USACICS)



I am pleased to announce that the dates for the 2024 ICS have been established; stay tuned for further information! USACICS is very proud to provide sponsorship for the 2024 Whistler Award, the Young Investigator Award, and Travel Awards for young researchers. While the USACICS maintains an investment account for the noted purposes, we cannot do it alone! **Dr. Peter Andreana, the USACICS Treasurer, would be happy to talk to all interested individuals and companies who would be interested in contributing to the managed account or sponsoring operations for the ICS.** The subsequent meetings are planned as follows https://ico.chemistry.unimelb.edu.au/

In the meantime, Eurocarb21, a series of meetings that follow a similar format to that of the ICS, was held in France on July 9-13, 2023, and below are some highlights of the meeting. The Conference attracted 600 participants (including 221 PhD students) from 36 countries and covered all major aspects of our field with: 11 Plenary, 17 Keynote, 144 Oral Lectures, 72 Flash Communications, and 224 Posters. Eurocarb21 introduced the Interdisciplinary Duo-Keynote Lecture (4) and Duo-Oral Communication (7) format. This is a fantastic way to promote and celebrate interdisciplinary research, and many attendees felt that this duo-lecture tradition should be continued and expanded to other conferences. Four awards were presented, and two workshops were held as a part of the program.

Next Eurocarb22 will be held in Gdańsk, POLAND

With best wishes and warmest regards,

Alexei V. Demchenko

President of the USACICS

U.S. National Representative for the ICO

THE 2023 MIDWEST CARBOHYDRATE AND GLYCOBIOLOGY SYMPOSIUM (MCGS)

October 6th and 7th at Purdue University.

The MCGS was conceived in 2005 by Xuefei Huang (Michigan State) and Steve Sucheck (UToledo) Since then, the MCGS has been hosted by Wayne State University, Ohio State University, Cleveland State University, University of Cincinnati, University of Michigan, Central Michigan University, University of Wisconsin, Michigan State University, and University of Notre Dame. We look forward to an in-person MCGS this year at Purdue!

The organizers (Bram Axelrod, Nikki Pohl, Enoch Mensah and Ming-Yu Ngai) are very excited to invite you and your students and postdocs to this symposium. Please find more information at this link: https://www.chem.purdue.edu/mcgs2023/index.html