

IOWA

The University of Iowa | College of Liberal Arts and Sciences

DEPARTMENT OF CHEMISTRY

2022-2023 Newsletter

Chemistry
Building

251 North Capitol St.
(CB)

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Message from the Chair

What a difference a year makes. During the past year, the department has undergone tremendous growth and change. With the pandemic largely behind us, the department forged ahead in many exciting directions.

Our faculty continued to make great strides in terms of promotions and garnering grant support from major federal sources. James Shepherd was promoted to the rank of Associate Professor and both Ed Gillan and Alexei Tivanski were promoted to Full Professor. As you read, you will learn that Florence Williams garnered an NSF CAREER Award, Betsy Stone spent time in Australia working on a Fulbright Award, and Tori Forbes was honored with a CLAS Collegiate Scholar Award.

Federal grants from the NSF, DOE, NIH, and KBIH Foundation were also major highlights. Our staff also experienced major growth. Our glassblower Benj Revis received the 2023 Helmut E. Drechsel Award, which recognizes the promoting of scientific glass blowing, and Amy Charles was honored with a CLAS 10-year longevity award. Congratulations to everyone! We also welcomed Rachel Franke as our new Administrative Services Coordinator in the front office.

The second True Distinguished Lecture, which is supported by Doug and June True, was held the past year. A lecture on "Chemistry, Coughing and Climate: Challenges and Opportunities in the Air Quality-Climate Nexus" was given by Barbara Finlayson-Pitts, Department of Chemistry at the University of California (UC), Irvine with Emmanuel Theodorakis of UC San Diego also delivered the Wawzonek Lecture on "Drug Discovery Through the Eyes of an Organic Chemist".

Our department also continued to push frontiers of service and teaching. Specifically, the department played a major role in organizing the ACS Midwest Conference in Iowa City in October 2022. The conference was a huge success with over a total of 700 attendees. Adam Brummett, along with Stratis Giannakouros, also kickstarted a major new education effort that allowed for Iowa STEM students to visit various locations in Europe to experience applications of sustainable chemistry on a global scale while the department also worked with Agilent Technologies to integrate new laboratory instrumentation into our undergraduate labs. New cutting-edge instruments will now be available to our undergraduate students on a yearly basis.

We are excited to look forward to the upcoming academic year, and your continued and gracious support. With last year being my final year as DEO, we are delighted to welcome our new incoming DEO - Professor Renée Cole – to lead the front office. We look forward to the role of Renée in leading the department.

Len MacGillivray
Department Chair (DEO), Department of Chemistry
College of Liberal Arts and Sciences



Message from the Incoming Chair



Dear Faculty, Students, Staff, and Alumni,

As the newly appointed Department Executive Officer, I am excited for this new role and the opportunity to contribute to the continued success of our department and its graduates. I have been on the job since July and have kicked off a new academic year. I want to start by thanking Len MacGillivray for his service as DEO over the last four years. Those were challenging times with the Covid-19 pandemic impacting all aspects of research and teaching, and his willingness to advocate for the Department was greatly appreciated. Reflecting on the department by the numbers, we now have 28 tenure-track faculty members, 4 instructional track faculty members, 23 staff members, 129 graduate students (including an incoming class of 25 new graduate students), and 222 chemistry majors.



The department vision statement states that “We aspire to enhance our leadership, research impact, and student success among peer institutions and nationally in the chemical sciences. We strive to achieve this level of success by attracting the most talented students, faculty, and staff, supporting their success and professional development, and creating a community of belonging in which their contributions are highly valued, and their workloads are equitable and support work/life balance.” I want to hear about your successes and about areas where we can do even better to support those in our Department community. I want to hear your ideas, concerns, and suggestions because I believe the best solutions often emerge from diverse perspectives. I also want us to celebrate the great things current and former members of the Department are doing. We’ve had a lot to celebrate recently with the number of faculty receiving new grants and awards. Check out faculty webpages to see some of the exciting research going on in the department as well as links to new publications. Our department also hosts regular seminars, which bring noted scholars from around the country to share their research with our students and faculty. Regularly visit our department website at <http://www.chem.uiowa.edu> to watch for opportunities to engage with the department.

The financial support of our alumni and friends continues to grow, expanding opportunities for our undergraduate and graduate students and faculty. Two examples of these types of opportunities highlighted in this newsletter are the True Lectures and the newly developed study abroad course that allowed STEM students to experience the applications of sustainable chemistry along the Rhine River valley.

I am truly excited about the possibilities that lie ahead for the Department of Chemistry and am looking forward to the journey. I welcome you to stop by and visit to see firsthand what is happening in the Department and share what you are doing.

Renée Cole
Department Chair (DEO), Department of Chemistry
College of Liberal Arts and Sciences



True Lecture 2023

Dr. Barbara Finlayson-Pitts

The Department of Chemistry had its second annual True Lecture on April 14, 2023. We had the honor of welcoming Dr. Barbara Finlayson-Pitts, Distinguished Professor at UC-Irvine, as the invited speaker.

Dr. Finlayson-Pitts presented, "Chemistry, Coughing and Climate: Challenges and Opportunities in the Air Quality Climate Nexus."

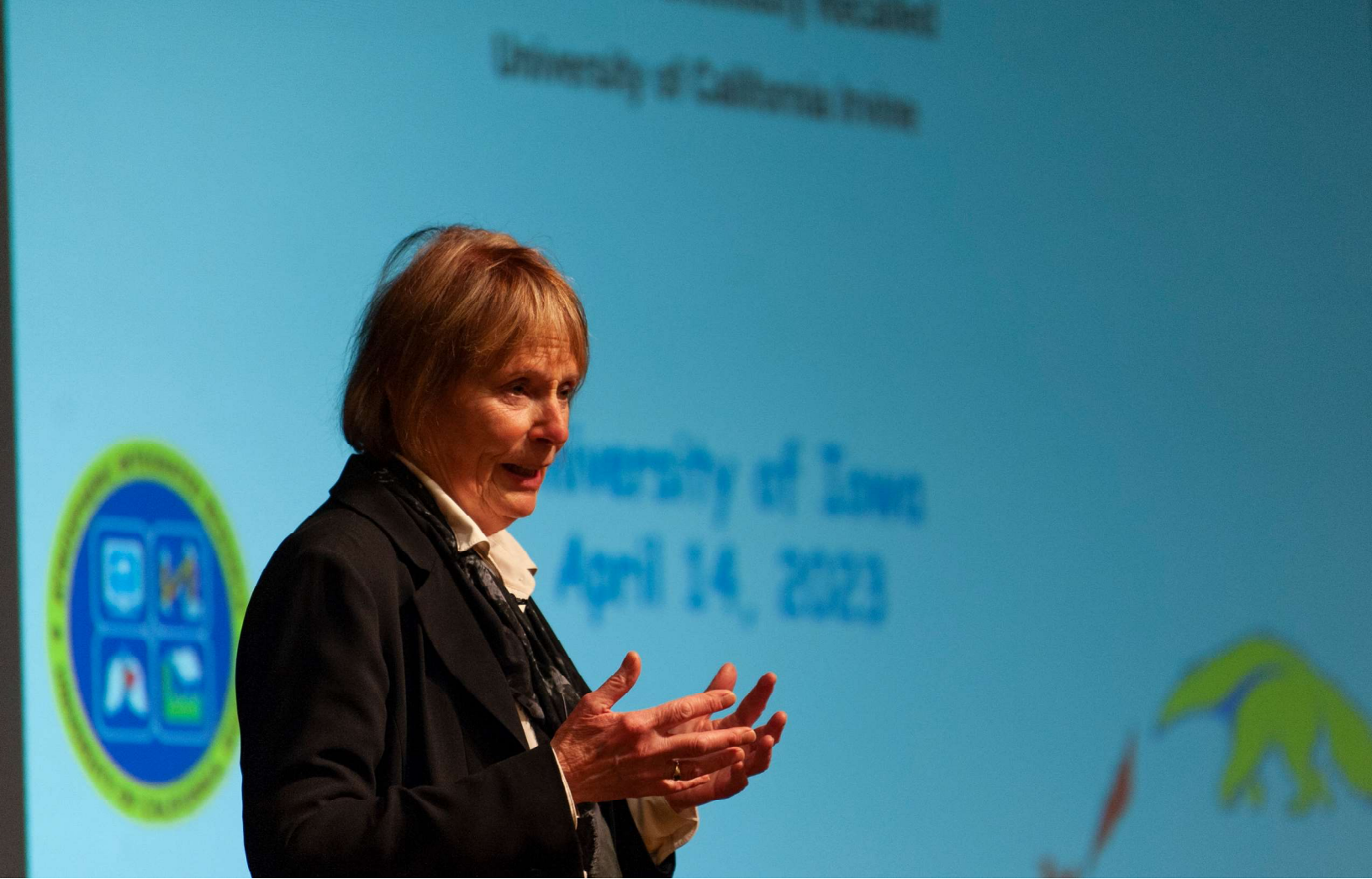
From the abstract, "Air pollutant emissions and their impacts have been documented for millennia. However, of greater concern than direct emissions are so-called secondary pollutants formed by reactions in air of gases that are themselves innocuous. These include species like ozone and particles, both of which are major players in climate change. Particles, which cause premature mortality and have been associated with neurodegenerative diseases such as Alzheimer's, present an especially challenging problem due to the many potential precursors and complex chemistry that converts gases to particles. Some of the challenges in addressing key gaps in understanding new particle formation and growth will be used to illustrate the urgent need for fundamental chemistry approaches to solve the inextricably intertwined issues of air pollution and climate."

In addition to the presentation, several research groups from the department presented posters of their work. This allowed graduate students to share their research with Dr. Finlayson-Pitts and others. She also met with several faculty members from the Department of Chemistry and other colleges across the University.

The True Lecture is a named lectureship that focuses on environmental chemistry issues and is made possible by the generous support of donors Doug and June True.



Top Left: (left to right) Doug True, Renée Cole, June True. Bottom Left: Dr. Barbara Finlayson-Pitts, True Lecture Speaker. Top Right: Dr. Barbara Finlayson-Pitts, True Lecture Speaker. Bottom Right: Overview of Poster Session



Prof. Betsy Stone receives Fulbright award

Professor Betsy Stone of the University of Iowa Department of Chemistry has been awarded a Fulbright U.S. Scholar Program award.

Prof. Stone received the prestigious Fulbright award to research allergens in Australia: Stone is among over 800 U.S. citizens who will conduct research and/or teach abroad for the 2022-2023 academic year through the Fulbright U.S. Scholar Program. Fulbright scholars engage in cutting-edge research and expand their professional networks, often continuing research collaborations started abroad and laying the groundwork for forging future partnerships between institutions. Fulbright alumni include 61 Nobel Prize laureates, 89 Pulitzer Prize recipients, and 40 who have served as a head of state or government.

Prof. Stone studied atmospheric pollen and pollen fragments in collaboration with researchers at the Commonwealth Scientific and Industrial Research Organisation and the University of Melbourne.





Florence Williams awarded NSF CAREER Award



Assistant Professor Florence Williams was awarded the NSF CAREER \$650,000 grant, a prestigious early-career scholar funding mechanism, for her work in Chemoselective Functionalization of Strong C-O, C-F and C-H Bonds Using Boron Chemistry.

With the support of the Chemical Synthesis Program in the Division of Chemistry and the Established Program to Stimulate Competitive Research (EPSCoR), Dr. Williams is studying the ability of simple boron-containing reagents to deconstruct chemical compounds in useful ways to create value-added materials and/or to tackle contemporary environmental challenges. The research focuses on cleavage of chemical bonds that are ubiquitous in types of materials commonly used in medicine, agriculture, engineering, and commerce. During the course of these transformations,

the key boron reagents are themselves degraded into innocuous boric acid, a low toxicity chemical found in household products such as laundry detergent.

Korey Carter receives DOE Early Career Award



Assistant Professor Korey Carter's U.S. Department of Energy (DOE) Early Career proposal titled, "Design of Molecular Spin Qubits Featuring Clock Transitions via Encapsulation of f-Elements in Polyoxometalates" was officially selected for funding of \$875,000.

The DOE announced the selection of 93 early career scientists from across the country who will receive a combined \$135 million in funding for research covering a wide range of topics, from artificial intelligence to astrophysics to fusion energy. The 2023 Early Career Research Program awardees represent 47 universities and 12 DOE National Laboratories across the country. These awards are a part of the DOE's long-standing efforts to develop the next generation of STEM leaders to

solidify America's role as the driver of science and innovation around the world.



Forbes and Mason awarded DOE Funds

Professor Tori Forbes and Dr. Sara E. Mason were awarded funds to support "Direct Air Carbon Dioxide Separation Using a Uranyl Superoxide Catalyst" as part of the U.S. Department of Energy's highly competitive Chemical and Materials Science to Advance Clean Energy Technologies and Low-Carbon Manufacturing funding opportunity. The superoxide radical reacts with CO₂ to form carbonate; however, challenges with controlling the reaction kinetics within strong base conditions stand in the way of using this chemistry in CO₂ capture.

The research supported by this 3 year, \$755,000 award will be carried out collaboratively between Prof. Forbes and co-PI Dr. Mason (Brookhaven National Laboratory) under research aims studying (i) the decomposition of the catalyst and how to control reactivity, (ii) the reaction thermodynamics/kinetics and how to drive rapid, selective carbonation of the KUPS-1 catalyst and (iii) mechanistic details of the regeneration process and how to form the superoxide radical with minimal chemical input.



Photo: Logan Augustine and Dmytro Kravchuk, Ulowa Chemistry Graduate Students whose preliminary work helped drive the awarded proposal.

Forbes receives Collegiate Scholar Award

Professor Tori Forbes of the Department of Chemistry was recongized with the College or Liberal Arts and Sciences (CLAS)



Collegiate Scholar Award for the 2021-22 academic year. From the CLAS website: "The Collegiate Scholar award was inaugurated in 2008 to recognize mid-career faculty for exceptional achievement. The award carries discretionary funds to support the recipient's teaching and research initiatives. Collegiate Scholar awards are funded by a generous unrestricted gift to the College.

The CLAS Committee on Faculty Promotion and Tenure selects each year's class of Collegiate Scholars from among those faculty recommended for promotion and/or tenure."

Congratulations to Prof. Forbes on this honor!

Daly Receives NSF Grant



With the support of the Chemical Synthesis program in the Division of Chemistry and the Established Program to Stimulate Competitive Research (EPSCoR), Associate Professor Scott Daly of the University of Iowa and Jason Keith of Colgate University received a \$528,550 grant to study metal complexes that enable tandem, multistep molecular assembly of targeted organic compounds in one-pot reactions. The innovative concept to be explored is the development of reactive boron molecules that bind metals and allow two different catalytic reactions to be performed using a single metal catalyst. This strategy holds promise for establishing more efficient and cost-effective methods to transform simple chemical building blocks into complex molecular scaffolds used in pharmaceuticals, agrochemicals, and other fine chemicals. This research will also provide important workforce development and scientific training for graduate and undergraduate students from diverse backgrounds. The recruitment and support of nontraditional and at-risk STEM (science, technology, engineering and mathematics) majors will be facilitated by continued development of the Chemistry Platoon, an acclaimed outreach project at the University of Iowa aimed at assisting veterans and Military affiliates in introductory chemistry courses, and by intensive undergraduate research efforts at Colgate University.

Renée Cole receives The James Flack Norris Award

Dr. Renée Cole has been awarded the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry (<https://www.nesacs.org/award/james-flack-norris-award/>) with two of her collaborators, Dr. Susanne Ruder (Virginia Commonwealth University) and Dr. Juliette Lantz (Drew University).

The award is one of (if not the) oldest award given out by the American Chemical Society and pays tribute to outstanding contributions to the field of chemical education. The presentation takes place at an Award Ceremony and dinner in November, followed by a formal address by the Awardee.

The Award, the first national award for outstanding achievement in the teaching of chemistry, was established in 1950 by the Northeastern Section of the American Chemical Society to honor the memory of James Flack Norris, Professor of Chemistry at the Massachusetts Institute of Technology, and a teacher of great repute.

Their contributions to chemistry education on the ELIPSS Project highlight how the thoughtful development of the assessment of process skills, including the development of rubrics, can have application at all levels; the rubrics can be used by instructors of chemistry from high school to the postsecondary level. The ELIPSS Project allows



(left to right) Christine Caputo, Renée Cole, Suzanne Ruder, Sonja Strah-Pleyne, Juliette Lantz, Christopher Bauer

students from all STEM disciplines to self-assess their ability to think critically, solve problems, and communicate effectively. These process skills are crucial for the development of a workforce that is prepared, agile and in possession of the interpersonal, communication, and cognitive skills necessary to be effective team players.

In addition to the ELIPSS project, all three are active participants in the Process-Oriented Guided Inquiry Learning) project. Collectively, this trio have been early implementers of POGIL in large classrooms, served on The POGIL Project steering committee, authored textbooks for POGIL (analytical and organic focused), and have led faculty workshops and seminars both in the US and internationally.



Prof. Tori Forbes Promoted to Professor

Prof. Tori Z. Forbes was promoted to Full Professor in July 2022. Forbes has been with the University of Iowa Department of Chemistry since 2010 and was promoted to associate professor in 2016. She is currently an adjunct faculty in the Department of Civil and Environmental Engineering and the Director of the UI Materials Analysis, Testing, and Fabrication (MATFab) facility. Forbes and her research group have multiple funded projects from NSF and DOE for the development of metal organic nanotubes for water storage and separation, reactivity of the neptunium in aqueous solutions, and more recently on the development of catalysts for direct air carbon capture.

Prof. Ed Gillan Promoted to Professor

Ed Gillan was promoted to Full Professor in May 2023. He has been with the University of Iowa Department of Chemistry since 1997 and was promoted to Associate Professor in 2003. Professor Gillan's most recent honors and awards include: University of Iowa Faculty Senate Vice President (2022-23) & President (2023-24), UI Participant in the Big 10 Alliance's Academic Leadership Program (2022-23), Associate Editor for *Frontiers in Chemistry* (2022-Present), and an Editorial Board member for *Catalysts* and *Frontiers in Chemistry*.

Prof. Gillan's research program "exploits reaction thermochemistry in the examination of moderate-temperature, sometimes very rapid, decomposition routes to produce inorganic materials with unusual structural, morphological, and physical properties."



Prof. Alexei Tivanski Promoted to Professor



Prof. Alexei Tivanski was promoted to Full Professor in May 2023. He has been with the University of Iowa Department of Chemistry since 2007 and was promoted to Associate Professor in 2014. Professor

Tivanski has been a member of The Nanoscience and Nanotechnology Institute since 2013.

Professor Tivanski's group "is a physical/analytical chemistry group with strong emphasis on the development of novel methods that utilize cutting-edge Atomic Force Microscopy (AFM) based techniques to study physical and chemical properties of various chemical systems at the nanoscale."

Prof. David Martin Promoted to Associate Professor

Prof. Dave Martin was promoted to Associate Professor in July 2022. Dr. Martin has been a part of the University of Iowa Department of Chemistry since 2019. His research group focuses on the study and treatment of human diseases through the synthesis of bioactive molecules, developing new catalytic transformations and novel strategies for bond activation. Dr. Martin's most recent grants and awards include the NIH MIRA Award (2020-2025), NSF Career Award (2018-2023), UBC Chemistry Young Alumnus Award (2017), Regents Faculty Fellowship (2017-2018), the Thieme Chemistry Journals Award (2017) and the 2022 Ronald T. Pflaum Outstanding Chapter Advisor Award for his work with the Alpha Chi Sigma fraternity.



Prof. James Shepherd Promoted to Associate Professor

James Shepherd was promoted to Associate Professor in May 2023. He has been with the University of Iowa Department of Chemistry since 2017. Professor Shepherd's recent awards include the UI Early Career Award (2020) and an NSF Career Award (2021).

Areas of interest include: Computational physical chemistry: nanoparticles, solar cell & catalyst design, renewable energy, using big data in chemistry, basic energy sciences, electronic structure & reactivity.



Passing of Professor Emeritus, Darrell Eyman

The Department of Chemistry is sad to announce the passing of Professor Darrell P. Eyman. Darrell was a long-time member of the department. His initial appointment started in 1964 as an Assistant Professor in the Inorganic Division. He retired in 2011 after 47 years of dedicated service to the department and its students.

Darrell was known as an excellent instructor in both the Principles of Chemistry sequence and the basic inorganic lecture and laboratory courses. He served as the DEO from 1991 to 1999 during a period of rapid growth in the stature of the department's research enterprise. As an entrepreneur, Darrell established ACCEL Catalysis, a startup company spun-off from his academic research program which was focused on the development, synthesis, and characterization of novel inorganic materials.

Darrell always had a great story to share. He had a genuine love for chemistry and the department, and he enjoyed being with his family and friends.

Our condolences go out to Joy, his beloved wife of over 60 years, and to the entire Eyman family.





Agilent Instrument Demo Laboratory

In 2022, Binaya Shrestha, Scott Shaw, and Mark Arnold became aware of a fantastic opportunity for the Department of Chemistry. Through a contract with the Regents Institutions in the state of Iowa, Agilent Technologies offered to collaborate with the Chemistry Department to establish a Demo Instrumentation Lab at the University of Iowa. Through this agreement, Agilent Technologies contributed new instruments valued at over \$550,000 that will be used by undergraduate students as well as research groups at the University. The instruments acquired through this contract include a Fluorometer, UV-Vis, ICP-AES, HPLC, GC, GC-MS, FTIR, and CE. They also provided more than \$10,000 worth of computers and software to run these instruments. Students studying Analytical and Physical Measurements will be the primary users of the instruments and will be able to enter the workforce with knowledge of the latest in cutting edge instruments, making them highly competitive for jobs in industry and graduate or professional programs. However, our department research groups will also reap the benefits of this new equipment. In addition to using the instruments to acquire research data, research groups across campus will be eligible to purchase them at the end of every placement cycle for a reduced purchase price, saving significant capital resources. The Department worked together with Agilent Technologies to make a seamless transition to these brand new instruments during Summer and Fall 2023, minimizing impact on instruction while installing and calibrating the new equipment to start use in spring 2024. The partnership between Agilent and Ulowa Chemistry will save the department nearly \$100,000 per year on the acquisition of instruments for advanced laboratory courses, funds that are now able to be used in different ways, moving UI's Chemistry program into a more efficient and exciting direction.



Iowa STEM students visit Europe

Iowa STEM students recently visited various locations in France, Switzerland, and Germany to experience the applications of sustainable chemistry on a global scale. The course was designed to follow Industry and communities along the Rhine River valley highlighting the differences in policy and approach to sustainability across countries and companies in this unique region of Europe. Moving through different locations along the Rhine, students were able to gain a deeper understanding of how history, geography, and national policies conspire to shape sustainability practices in the industry and cities.

While on the trip, the students explored urban Europe's efforts to increase biodiversity, emphasize conservation, adapt to climate change, and mitigate the impact of urbanization.

Students expressed gratitude and excitement for the journey, especially about personal experiences and preparation for future careers.

"The initial purpose was to open the door for STEM students to look at science from a more global perspective," says Brummett. "So often we look at chemistry and science locally and nationally and don't realize how much is being done in other places."



Colleen Lasar receives Internship in Japan



the

In Japan, Lasar's research will investigate surface coatings that prevent formation of ice.

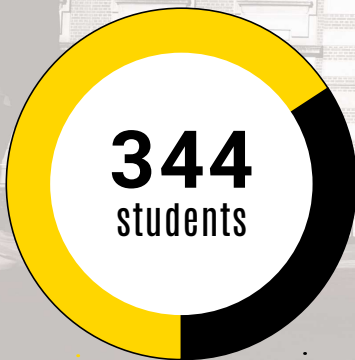
"When snow accumulates on solar farms in the winter, it can prevent the sunlight from reaching the solar panels. Creating an anti-icing coating can help with this problem, as well as preventing other issues a buildup of snow or ice can cause," Lasar explains. "My research seeks to find an optimal self-healing coating to prevent the accumulation of snow and ice on surfaces, and ionic liquid mixtures could be the key."

"After receiving notification that I was the recipient of the Ballard and Seashore Fellowship, I also received notification that I was accepted into an internship with the Japanese National Institute of Advanced Industrial Science and Technology," Lasar says. "This is a once in a lifetime opportunity and I am so grateful to Graduate College Dean, Dr. Amanda Thein, for ensuring that I could pursue both the fellowship in Iowa and the internship in Japan."

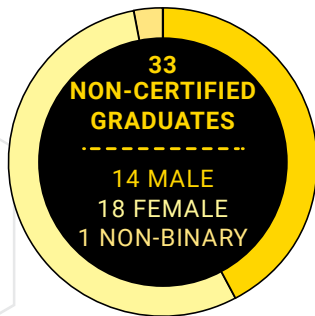
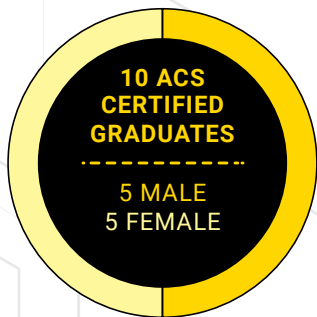
Lasar describes her internship in Japan followed by her fellowship in Iowa as an ideal way to end her graduate career. As Lasar continues her work with ionic liquids, the potential impact of her research extends from improving energy storage in Iowa to enhancing technologies in space.



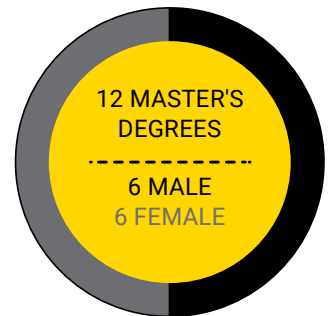
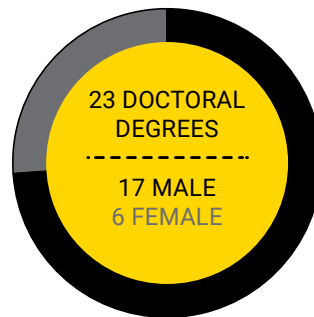
Students



222 undergraduate

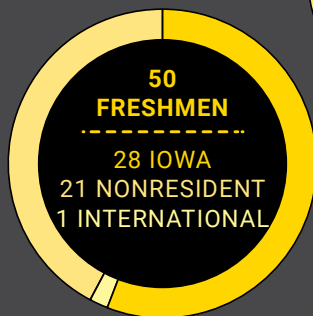
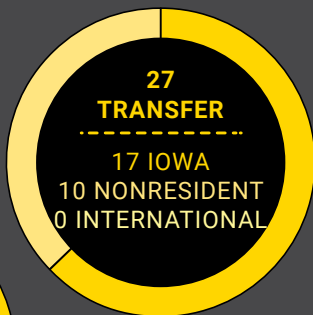


122 graduate

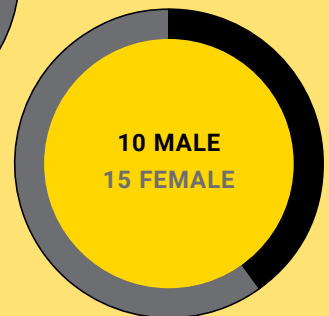


GET TO KNOW OUR INCOMING STUDENTS

50 INCOMING UNDERGRADUTE STUDENTS



25 INCOMING GRADUATE STUDENTS



Benjamin Revis Chemistry Glassblower Receives prestigious Helmut E. Drechsel Achievement Award

Benjamin Revis has worked as a scientific glassblower at the University of Iowa for nearly twelve years—providing glass products to researchers and teaching courses. He is also a member of the American Scientific Glassblowers Society (ASGS), an organization founded in 1952 with the goal of supporting scientific glassblowers and distributors across the nation.

This year, Revis has earned the organization's prestigious Helmut E. Drechsel Achievement Award, given to members dedicated to promoting the field of scientific glassblowing.

"I was surprised and humbled to even be nominated," says Revis on receiving the award.

In addition to glassblowing professionally for the College of Liberal Arts and Sciences' Department of Chemistry, Revis has taught a variety of classes, including advanced methods in chemical research scientific glassblowing fundamentals, where students learn the basics of the craft and how it can be applied to the field. He also has guest lectured other chemistry courses, teaching students how to construct their own test-tubes and bubblers.

In his role, Revis also repairs and fabricates different materials, assessing points and damage and deciding whether or not a successful restoration is possible.

"During my time at the University of Iowa, I have continually shared my excitement for scientific glassblowing and its contribution to the sciences through teaching opportunities, public outreach and collaborations, and professional organization involvement," Revis explains.

One of the most recent community outreach programs he was involved in was the 2022 Sounds of Water concert performed in collaboration with the UI School of Music, IHR Hydroscience and Engineering, the School of Art and Art History, and the Department of Chemistry.

"The pinnacle effort that put my name on the nomination form for this award was the Joint Midwest Meeting of the American Chemical Society and the American Scientific Glassblowers Society," adds Revis.

That 2022 meeting was the first of its kind where chemists were brought together with scientific glassblowers.

"The meeting would not have been as successful as it was without the help and support from ACS Midwest Regional Meeting committee Tori Forbes, Renee Cole, Heriberto Hernandez, Scott Shaw, Andrea Van Wyk, and Lucas Claussen. The ASGS Midwest Section Chair Corina Guerra, the department of Chemistry, and CLAS Associate Dean for Research Josh Weiner," Revis explains.



Staff Highlights

Promotions & New Hires



Dominic Frisbie
Promoted to Administrator of Undergraduate Instruction

Dominic Frisbie started at the University of Iowa in April 2012 as an Instructional Laboratory Manager for Principles of Chemistry I & II. He was promoted to Administrator of Undergraduate Instruction in June of 2022.



Emily Platt
Hired as Instructional Laboratory Manager

Emily Platt was hired in September 2022 as the Instructional Laboratory Manager for Principles of Chemistry I & II.



Rachel Franke
Hired as Administrative Services Coordinator

Rachel Franke was hired in January 2023 as the Administrative Services Coordinator for the Front Office.

AWARDS AND RECOGNITION

Undergraduate awards and recognition

Department awards

Donald J. Burton & Margaret A. Burton Scholarship

Madelyn Daley

E. David Cater Scholarship

Emily Ratermann

Russell K. Simms Scholarship

Nathaniel Gehrke

Haley Lightfoot

Chemistry Alumni Awards

Senior Recipient

Haley Lightfoot

Junior Recipient

Casey Huetmann

Sophomore Recipient

Jenna Ringwald

CRC Freshman Chemistry Award

Willie Zheng

Merck Index Award

Thomas Phillips

American Institute of Chemists Award

Jackson Tupper

ACS Division of Analytical Chemistry Award

Trevor Larkin

ACS Division of Organic Chemistry Award

Nathaniel Gehrke

ACS Division of Physical Chemistry Award

Jenna Ringwald



Chemistry & Sustainability Study Abroad Scholarship

Kodi Dailey
Joe Farrell
Lindsay Ginger
Cade Hoambrecker
Meg Krapfl
Kailey Krigas
Tina Liu
Sarah McGee
Jenna Ringwald
Gabe Yetley

External Recognition

Research & Development Summer Internship

Casey Huetmann

Graduate Student awards and recognition

Department awards

A. Lynn Anderson Award for Research Excellence

Dmytro Kravchuk

University Recognition

Ballard and Seashore Fellowship

Celymar Ortiz de Leon, Fall 2022
Lucas Howell, Fall 2022
Nicole States, Fall 2022
Chamari Mampage, Spring 2023
Colleen Lasar, Spring 2023

CLAS Dissertation Writing Fellowship

Josh Coduto

Graduate College Post-Comprehensive Research Fellowship

Brett Lottes, Fall 2022
Mikayla Wymore, Fall 2022
Caleb DeWitt, Spring 2023
Theodora Leventis, Spring 2023

Graduate College Summer (2023) Fellowship

Andrej Corkovic
Caleb DeWitt

Graduate College Summer (2023) Fellowship (cont.)

Akalanka Ekanayake
Katuwana Arachchige
Colleen Lasar
Theodora Leventis
Chamari Mampage
Andres Mora Mata
Ryan Norton
Harindu Rajapaksha
Leah Scharlott
Ashley Schneider
Primadi Subintoro
Andrea Van Wyk
Piyumi Wijesirigunawardana

Council on Teaching Outstanding Teaching Award

Caleb DeWitt

Recent History

Before 1990



The Chemistry Building

The current Chemistry Building was constructed in 1922. The Chemistry Building contains more than 50 graduate research laboratories, office space for students, faculty and staff, and various undergraduate instructional facilities.



1990 2005



5th Floor Renovation, NSF

The National Science Foundation awarded the University of Iowa a grant for \$480,000 as part of its ARI program. This grant, together with matching UI funds allowed for the remodeling of the 5th Floor SE wing of the Chemistry Building.

- **6,500 sqft Research Laboratories**
- **Two Faculty Offices**

**2005
2020**



2005-2007 Renovation

Major Chemistry Building Renovation! The State of Iowa provided \$35.2 million in 2004. Roy J. Carver Charitable trust provided \$2.85 million in Aug 2005 and \$1.4 million matched by the University of Iowa.

- **111C Storage area to Haes Lab**
- **X-Ray Diffraction Facility**
- **Instructional Lab & Teaching Facilities**
- **Research Wing Facilities**

**2020
Present**




2nd Floor Renovation

The University renovated the SW wing of 2nd floor for student study spaces and the North Campus Testing Center. The testing center has 48 stations where students with accommodations can take exams as needed.


- **2nd Floor SW wing**
- **Freshmen Chem Office Hours Room**
- **Student Study Space**
- **North Campus Testing Center**



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Department of Chemistry

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