



The University of Iowa | College of Liberal Arts and Sciences

THE TAXE TO BE AND THE TAXE TO B

2021 – 2022 Newsletter







Faculty gained widespread external recognition being recognized as fellows and receiving national awards and being named to editorial boards of prominent international journals. Our undergraduate and graduate students were also recipients of a remarkable number of highly prestigious national awards from the National Science Foundation and selected by high-impact conferences to communicate research. Our staff also experienced great change, especially in the front office and within the undergraduate laboratories. Shonda Monette is our new Departmental Administrator and Dominic Frisbie is our new Administrator of Instruction. Two retirements were also part of the change.

The past year was the inaugural True Lecture supported by Doug and June True. The first True Lecture was given by Geraldine Richmond, Under Secretary for Science and Innovation at the Department of Energy (DOE) and Professor of Chemistry, University of Oregon with a presentation on "Surf, Sink or Swim: Understanding Environmentally Important Processes at Water Surfaces".

As we look forward to the upcoming academic year, thank you again to all of those who have supported and continue to support our department. Please let us know if you would like to stop by when in Iowa City, and we would be happy to give you a tour of our facilities and update you on the latest progress. Our Chemistry Department continues to prove itself as a place for innovation, collaboration, and a destination for teaching, research, and service.

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

Message from the Chair

The past academic year was met with challenges and excitement. Our students, faculty, and staff continued to endure tremendously. The beginning of the year started with a focus on the safety of our students, as we worked with the College of Liberals Arts and Sciences and the University to address our transition to an inperson modality of teaching. There was then a shift to completely restore normal operations. During this time, we continue to look forward to your support, guidance - and now more on-campus visits - to promote the continuing growth of our Department.

As you will read, the past year was a period of much change. Our faculty continued to make great strides in terms of promotions and serving new roles on campus.

TRUE LECTURE 2022: DR. GERALDINE RICHMOND

The Department of Chemistry held the inaugural True Lecture, supported by Doug and June True, in April. Dr. Geraldine (Geri) Richmond, Under Secretary for Science and Innovation at the Department of Energy (DOE), was the invited speaker.

Dr. Richmond presented "Surf, Sink or Swim: Understanding Environmentally Important Processes at Water Surfaces." Her talk centered on the properties of water, and especially the surface of water.

From the abstract, "In our laboratory we study environmentally important processes at aqueous surfaces using laser based spectroscopic techniques and molecular dynamics simulations. I will focus my talk on what we have learned about the intriguing molecular behavior of water surfaces, how its behavior plays a role in important environmental processes and how it has guided my career beyond my expectations."

In addition to the presentation, Dr. Richmond was able to meet with several faculty members from the Department of Chemistry, the College of Engineering, and the Vice President for Research. A lunch event, Women+ in Science, provided an opportunity to meet with faculty and graduate students from the department.

Prior to the lecture, several research groups from the department presented posters of their work. This allowed graduate students to share their research with Dr. Richmond and others.

The True Lecture is a new named lectureship that focuses on environmental chemistry issues and is made possible by the generous support of donors Doug and June True. Plans for the second annual True Lecture are underway.





Top Left: (left to right) Doug True, Len MacGillivray. Bottom left: Dr. Geraldine Richmond, True Lecture speaker. Top right: Dr. Geraldine Richmond, True Lecture speaker Right, Bottom: (Left to Right) Dr. Geraldine Richmond, Doug True, June True, Len MacGillivray.





MARGULIS GROUP WORK FEATURED IN PRESS

The work of several members of the Margulis Group, along with the Oak Ridge National Laboratory have been featured in three major publications: *The Royal Chemical Society's Chemical Science, the American Chemical Society's The Journal of Physical Chemistry B, and Chemical & Engineering News.*

You can read the feature, "Chromium Ions Can Form Clusters in Molten Salts" in <u>Chemical & Engineering News</u>. From the abstract of the article, "These findings challenge several assumptions regarding specific ionic interactions and transport in molten salts, where aggregation of dilute species is not statistically expected, particularly at high temperature."

Authors include members of the Margulis Group: Shobha Sharma, Fei Wu, and Claudio J. Margulis.





MASON NAMED TO THE ENVIRONMENTAL SCIENCE: NANO ADVISORY BOARD



Professor Sara E. Mason has been named to the Royal Society of Chemistry's Environmental Science: Nano Advisory Board.

Environmental Science: Nano is a comprehensive, high-impact source of peer-reviewed information on the design and demonstration of engineered nanomaterials for

environment-based applications and on the interactions of engineered, natural, and incidental nanomaterials with biological and environmental systems. This scope includes, but is not limited to, the following topic areas:

- Novel nanomaterial-based applications for water, air, soil, food, and energy sustainability
- Nanomaterial interactions with biological systems and nanotoxicology
- Environmental fate, reactivity, and transformations of nanoscale materials
- Nanoscale processes in the environment
- Sustainable nanotechnology including rational nanomaterial design, life cycle assessment, risk/benefit analysis

Submissions are initially assessed by the Editorial Office and handled through peer-review by high-profile associate editors.

PROFESSOR DAVID MARTIN RECEIVES THE 2022 RONALD T. PFLAUM OUTSTANDING CHAPTER ADVISOR AWARD



Professor David Martin has received the 2022 Ronald T. Pflaum Outstanding Chapter Advisor Award. Merryn Cole of the Alpha Chi Sigma Fraternity commended Martin for his work and positive influence on the Alpha Theta Chapter.

The award is named in honor of Ronald T. Pflaum, who served as Alpha Theta Chapter Advisor for many years and served at the national level as District Counselor, Grand Recorder, Grand Editor, Grand Collegiate Alchemist, and Grand Master Alchemist. Pflaum

was a chemistry professor at the University of Iowa from 1956 to 1992 and the UI chapter advisor for many years.

The award is presented in recognition of ongoing contributions to the success of a collegiate chapter and continuing service to the interests of the Fraternity. Congratulations!

RENÉE COLE NAMED AAAS FELLOW

Professor Renée Cole was recently named an AAAS fellow along with six other UI faculty members.

Professor Cole was selected because "[her] research focuses on issues related to how students learn chemistry and how those results can be used to transform the design of instructional materials and teaching strategies to improve student learning. She is an internationally and nationally known leader in initiatives to effectively translate discipline-based research to the practice of teaching, thus increasing the impact of this research and improving undergraduate STEM education. Her work has led

to insights in understanding how to effectively design and facilitate active learning in STEM classrooms, as well as identifying effective strategies for faculty development to assist instructors in implementing these materials and techniques." Congratulations!



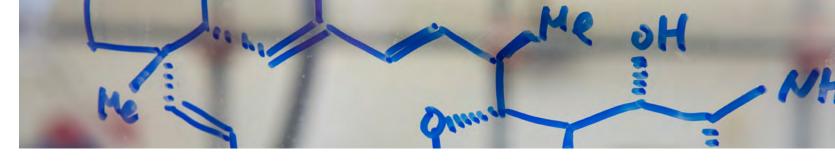
MARGULIS SELECTED **FOR ELSEVIER EDITORIAL BOARD**



Elsevier has started a new scientific journal aimed at the field of Ionic Liquids: Journal of Ionic Liquids -Journal - Elsevier. **Professor Claudio** Margulis, has been named to the editorial board of this journal.

Elsevier helps researchers

and healthcare professionals' advance science and improve health outcomes for the benefit of society. Congratulations on this recognition!



LEN MACGILLIVRAY, PROFESSOR **AND DEPARTMENT CHAIR TO RECEIVE PRESTIGIOUS DISCIPLINARY AWARD**

The American Chemical Society has named Professor Leonard "Len" MacGillivray, the chair of the University of lowa Department of Chemistry, the recipient of the 2021 ACS Midwest Award. The award, granted by the ACS's St. Louis section, each year recognizes a scientist who has significantly contributed to the development of chemical research and education.

MacGillivray's award marks the second year in a row that a UI chemist has earned the prestigious honor. In 2020, Professor David Wiemer won the award.

MacGillivray, who is an Elected Fellow of the American Chemical Society, the American Association for the Advancement of Science, and the Royal Society of Chemistry, earned his PhD in 1988 from the University of Missouri-Columbia, and joined the UI faculty in 2000.

The UI College of Liberal Arts and Sciences named him Dean's Scholar in 2005, Collegiate Scholar in 2010, and Collegiate Fellow-the college's highest faculty honorin 2019, the year he became chair of the Department of Chemistry. The university recognized him with the Faculty Scholar Award in 2007, and in 2019, the UI Graduate College gave him the Outstanding Faculty Mentor Award. He has a secondary appointment in the Department of Pharmaceutical Sciences and Experimental Therapeutics in the UI College of Pharmacy and is affiliated with the UI's Environmental Sciences Program.

The primary research focus for MacGillivray and his team in the MacGillivray Research Group is in the field of supramolecular chemistry-an area that bridges chemistry, physics, and biology through exploiting noncovalent bondsas related to organic solids.

His team's work has significant influence on their field. To date, MacGillivray has published 246 articles in refereed journals, which are regularly cited by other researchers. He is co-editor of International Union of Crystallography Journal and serves on the editorial board of several other key journals. He is in demand nationally and internationally as a speaker and has delivered over 240 invited lectures and conference presentations, in addition to chairing and organizing 26 symposiums and conferences.

MacGillivray received the award at the ACS Midwest Regional Meeting held October 20-22, 2021 in Springfield, Missouri, where he delivered a lecture for the Midwest Award Symposium.

From the University of Iowa College of Liberal Arts and Sciences.

FULL ARTICLE HERE



AUGUSTINE RECEIVES DEPARTMENT OF ENERGY **OFFICE OF SCIENCE GRADUATE STUDENT RESEARCH AWARD** i Qui Th

Logan Augustine, a fourth-year student in the Mason group, is the recipient of a prestigious Department of Energy Office of Science Graduate Student Research (SCGSR) award and will spend a year at Los Alamos National Laboratory

working on a computational project to separate neptunyl ions from nuclear waste in solution. Neptunyl, a linear molecule made up of a single neptunium atom and two oxygen atoms, is highly radioactive, but unlike uranium and plutonium has no well-developed means of separation from the soup of species found in nuclear waste. Neptunyl also reacts with itself in solution, yielding a mixture of +4, +5, and +6 species, which complicates extraction.

Augustine's modeling project employs a strategy of attaching benzoate and bipyridine ligands, functionalized with electronwithdrawing and -donating groups, to the equatorial plane of the neptunyl ion, with an aim of binding them strongly enough to carry neptunyl from an aqueous to an organic phase. Should such separation techniques develop to the point of industrial use, they could allow neptunium recycling or transformation and re-use in producing nuclear energy, as well as reduction in the radioactivity of the remaining nuclear waste. He will be working with Dr. Ping Yang, Acting Deputy Director of the G.T. Seaborg Institute for Transactinium Science at LANL.

Augustine is also a co-investigator on a successful NSF XSEDE (Extreme Science and Engineering Discovery Environment) proposal for over 2.3 million hours of highperformance computing in the coming year. Part of graduate and postdoc student professional development in the Mason group is the chance to gain practice in writing proposals.

[Augustine] played a critical role in obtaining the timing information needed to justify our allocation request . . . and also helped craft the project description," Prof. Sara Mason

As an investor in the Ul's High Performance Computing systems, the Mason group has dedicated nodes on campus, but the new capacity allows group members to use NSF's supercomputers in San Diego and Pittsburgh as well. "It's nice to not have to fight other people in the group for running jobs," Augustine says, joking.

Originally from Urbandale, Augustine came to lowa from Lincoln Memorial University (LMU) in Tennessee, where he had been recruited as a baseball player. LMU gave him his first exposure to computational research, working on bismuth

germanate detector response functions in a reaction involving the gamma radiation produced after excitation of a fluorine nucleus.

He came to Iowa intending to join the Mason group.

"Even though computational chemistry has now been around for a while, being able to apply it to actinide systems like neptunium is just still so understudied, so being able to be still on that emerging edge of studying these new systems

where there's just not a ton of studies on it yet ... that's what probably draws me," he says.

The ability to describe highly radioactive systems computationally and guide experimentalists in their research design, potentially reducing their exposure to radiotoxicity, is also an important aspect of his chosen area of chemistry.



GRADUATE RESEARCH EXCELLENCE AWARD APPOINTED TO DMYTRO KRAVCHUK

Dmytro Kravchuk has been awarded the Office of the Vice President for Research (OVPR) Graduate Research Excellence Award.

The Office of the Vice President for Research (OVPR) has selected the winners of 14 awards that recognize exceptional researchers, scholars, innovators, students, and administrators, as a part of the annual Discovery and Innovation awards program.

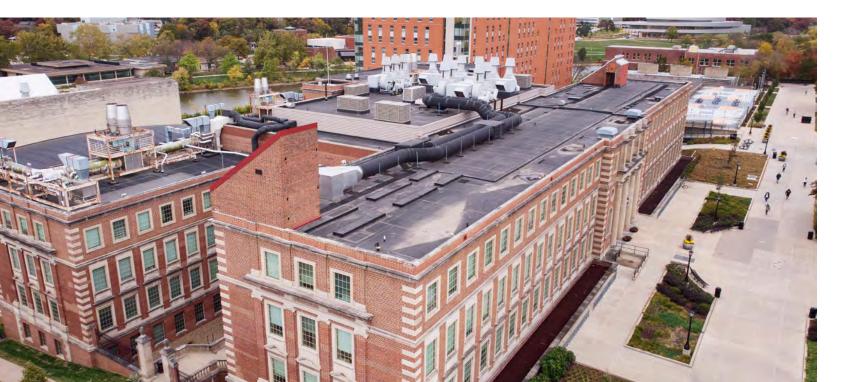
Each fall, the OVPR solicits nominations from the campus community for the awards, which include:

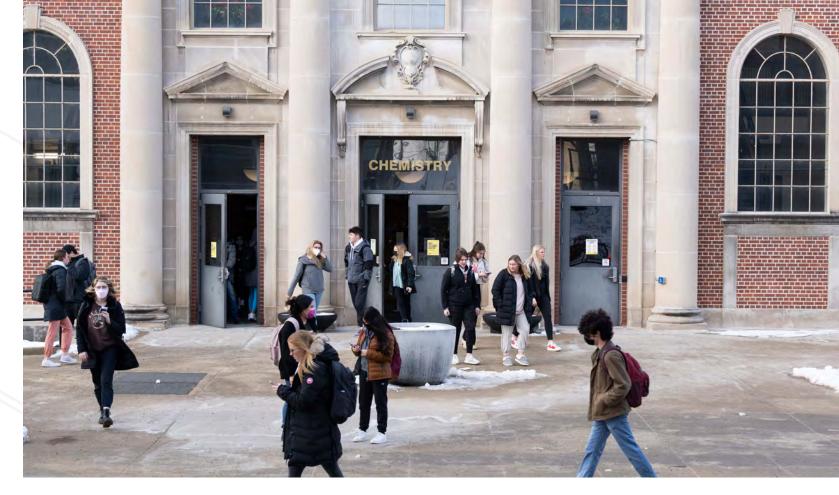
- Scholar of the Year •
- Early Career Scholar of the Year
- Leadership in Research
- Graduate Student Excellence
- Postdoctoral Scholars, and Excellence in Undergraduate Research

It also includes awards that recognize distinguished achievement in communications, public engagement, arts and humanities, mentorship, research administration, research safety, and diversity, equity, and inclusion.

Kravchuk, a Ph.D. candidate in the Department of Chemistry, and a member of the Forbes group was one of four individuals to receive the Graduate Research Excellence Award, which honors students in terminal degree programs conducting research and scholarly activity that is recognized as highly original work and makes a significant contribution to the field. Congratulations!







TWO GRADUATE STUDENTS SELECTED FOR ACS RESEARCH SYMPOSIUM

Lucas Howell and Cory Ludwig were selected for the ACS Organic Division Graduate Research Symposium. The DOC Graduate Research Symposium provides an opportunity for 50-75 graduate students in organic chemistry to interact with leaders from academia, industry, various funding agencies, and publishers at a single venue.

The event featured several invited speakers from industry and academia, and students had the opportunity to give an oral communication or present a poster. Workshops and additional opportunities for round-table discussions were organized to inform students about opportunities available in the field and to gain important perspectives on their post-graduate school careers.

Howell was nominated by Dr. Friestad, and Ludwig by Dr. Martin, to attend this prestigious national conference.



Above: Lucas Howell. Below: Cory Ludwig





DR. REBECCA LAIRD PROMOTED TO ASSOCIATE PROFESSOR OF INSTRUCTION

Dr. Rebecca Laird was promoted to the rank of Associate Professor of Instruction in July 2021. Dr. Laird joined the faculty at the University of Iowa in 2015. With passions for education as well as organic and biochemistry, Dr. Laird focuses on teaching and developing curricula for the Organic Chemistry course series and the General Organic and Biochemistry courses within the Chemistry department. Congratulations to Dr. Laird on this achievement.

PROF. BETSY STONE PROMOTED TO PROFESSOR

Professor Betsy Stone was promoted to the rank of Professor in July 2021. Prof. Stone joined the faculty at the University of Iowa in 2010 and leads research on atmospheric particulate matter. Motivated by mitigating the negative health and environmental impacts of particulate matter, Prof. Stone and her research group characterize its chemical composition, sources, and atmospheric transformations. Prof. Stone was

selected as a Fulbright U.S. Scholar to Australia (2022-23), Collegiate Scholar by the College of Liberal Arts and Sciences (2021-2023), Research Scholar by the Department of Chemistry (2020-2021), Distinguished Mentor by



the Iowa Center for Research by Undergraduates Distinguished Mentor (2020), and James Van Allen Natural Sciences Fellow (2018-2019). Prof. Stone also chairs the University of Iowa's Laboratory Safety Committee and is the faculty advisor to the Chemical Safety and Responsibility Stewards (CSARS).

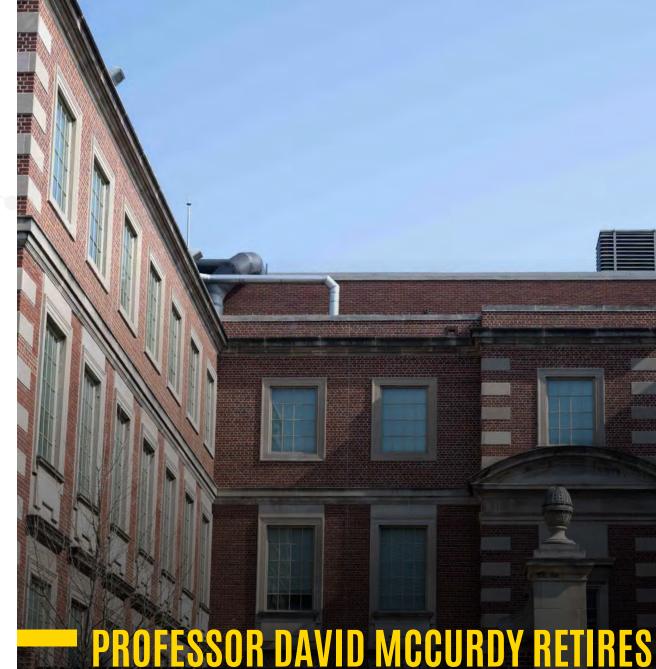
PROF. NICOLE BECKER PROMOTED TO ASSOCIATE PROFESSOR



Prof. Nicole Becker was promoted to the rank of Associate Professor in July 2021. Prof. Becker joined the faculty at the University of Iowa in 2014. Becker's research at the University of lowa focuses on how undergraduate chemistry students engage in

scientific practices, such as using models to predict and explain chemical behavior. The goal of this work is to inform the design of evidence-based instructional materials for introductory chemistry courses and to improve student performance and retention in these courses.

Some current projects from the Becker group include: "Investigating undergraduate chemistry students' reasoning and conceptual change related to graphical representations of particulate-level variation" and "Characterizing student engagement in three-dimensional learning across transformed chemistry learning environments." In the latter project, the Becker Group works in collaboration with researchers from the University of Wisconsin-Madison.



Prof. David (Dave) McCurdy, lecturer for the Department of Chemistry, retired in May 2022 after six years with the University of Iowa. McCurdy received his Associate of Science from Iowa Western Community College in 1975. He then attended Northwest Missouri State University to receive his Bachelor of Science degree in 1979. After graduation, he spent a short time as a product development and guality control technician with Streck Laboratories, Inc. in Omaha, NE. After leaving Streck Laboratories, Inc., he attended Kansas State University and received his PhD in analytical chemistry in 1987. He then received a position as an assistant professor at Truman State University in 1987. In 2000, he was appointed full professor at Truman State also serving as department chair until 2016, retiring after twenty-nine years. Soon after, he joined the Hawkeye family to pursue a greater focus on teaching as a lecturer in the department of chemistry. During his time at lowa,

McCurdy shared his passions for chemistry by teaching hundreds of students with an emphasis on Principles of Chemistry II and General Chemistry I and Fundamentals of Chemical Measurements.



TWO RECENT PH.D GRADUATES RECEIVE NSF POSTDOCTORAL RESEARCH FELLOWSHIP

The National Science Foundation (NSF) selected Dr. Mikaela Pyrch, a recent Ph.D. graduate, and Dr. Diamont T. Jones, also a recent Ph.D. graduate, for prestigious Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowships (MPS-Ascend).

Pyrch, who completed her UI Ph.D. in the research group of Prof. Tori Z. Forbes, received a three-year, \$300,000 award that will springboard her research and trajectory towards a faculty appointment. The fellowship will enable Pyrch to work with Prof. Polly L. Arnold at UC Berkeley to explore how coordination environment effects the magnetic and optical properties of erbium complexes.

The research approach uses rigid, oxygen-atom donor ligands (actinyl cations) to coordinate to the erbium center. Alongside the research, Pyrch will engage in K-12 outreach with underrepresented minority groups.

Jones, who completed her UI Ph.D. in the research group of Prof. Sara E. Mason, received a three-year, \$300,000 award that will support her early-career research and advancement towards a faculty position.

The fellowship will fund her work with Prof. Andrew M. Rappe, at the University of Pennsylvania, to combine and advance computational methods to model chemical mechanisms associated with the synthesis of MXenesan emerging class of twodimensional nanomaterials with distinct properties and a wide range of potential applications. Alongside the technical goals of the project, Jones will invigorate ongoing outreach activities at University of Pennsylvania, as well as develop and lead a





new workshop for WOC to develop strategies and discuss specific struggles associated with the final stages of graduate school training.





Shonda Monette has been selected as the new Departmental Administrator. Monette has been with the UI for more than 20 years, beginning as a graduate student. She obtained a summer research fellowship with Lei Geng in 1999 then joined David Wiemer's

research group as a GAAN Fellow the following fall. After obtaining her master's degree in Organic Chemistry, she was selected as a lab coordinator for the department and was later promoted to specialist. In 2007, Iowa changed the structure of its freshman chemistry courses and rebuilt its teaching lab facilities. Monette was instrumental in nearly doubling the efficiency of the new course structure as well as served as an adjunct for 10 years. In 2018, she was selected as the Administrator of Instruction, which oversees logistics for approximately 3,000 students and over 70 teaching assistants. In her new role, Monette plans to advance the department's strategic plan through open communication, team efforts, and solidifying positive relationships.



CHEMISTRY STUDENTS RECOGNIZED BY THE 2022 NSF GRADUATE RESEARCH FELLOWSHIP PROGRAM

Two Department of Chemistry students have received fellowships from the prestigious National Science Foun Graduate Research Fellowship Program (GRFP) and one earned an honorable mention.

- · Samantha Kruse, advised by Professors Forbes an MacGillivray
- Lillian Jones, advised by Professor Stone
- Andrej Corkovic, advised by Professor Williams (honorable mention)

a focus on bioaerosols. Her work as an undergraduate The NSF Graduate Research Fellowship Program recognizes has included the characterization of atmospheric pollen individuals who have demonstrated their potential for fragments during extreme weather events and assessment of the spatial variability of aeroallergens in Johnson County. significant research achievements in STEM or STEM She will be attending Colorado State University to study education. Fellows receive three years of financial support biosphere-atmosphere exchanges. and opportunities for professional development.

As the oldest graduate fellowship of its kind, the GRFP has a long history of selecting recipients who achieve high levels of success in their future academic and professional careers. The reputation of the GRFP follows recipients and often helps them become life-long leaders that contribute significantly to both scientific innovation and teaching. NSF Fellows are anticipated to become knowledge experts who can contribute significantly to research, teaching, and innovations in science and engineering. These individuals are crucial to maintaining and advancing the nation's technological infrastructure and national security as well as contributing to the economic well-being of society at large.

	Kruse is a second-year graduate student in the Forbes and
dation	MacGillivray groups. Her research, which is at the interface
e has	of radiation chemistry and materials science, focuses on
	developing solid organic materials with the purpose of
d	mitigating high ionizing radiation structural defects. Her goa
	is to develop a structure-function relationship to rationally
	design materials for applications in long-lasting radiation
	detectors, nuclear waste containment, and space science.
	Jones recently graduated with a B.S. in chemistry with
	honors. Her research is in atmospheric chemistry with
	a faqua an biggergagla. Her work og en undergredugta

- Corkovic is a second-year graduate student in the Williams group. His research focuses on activating C-H bonds on alcohol substrates by using boryInitrenes. In the future, he would like to pursue a career in academia.



CHEATUM NAMED ASSOCIATE DEAN FOR THE NATURAL, MATHEMATICAL AND NATURAL SCIENCES

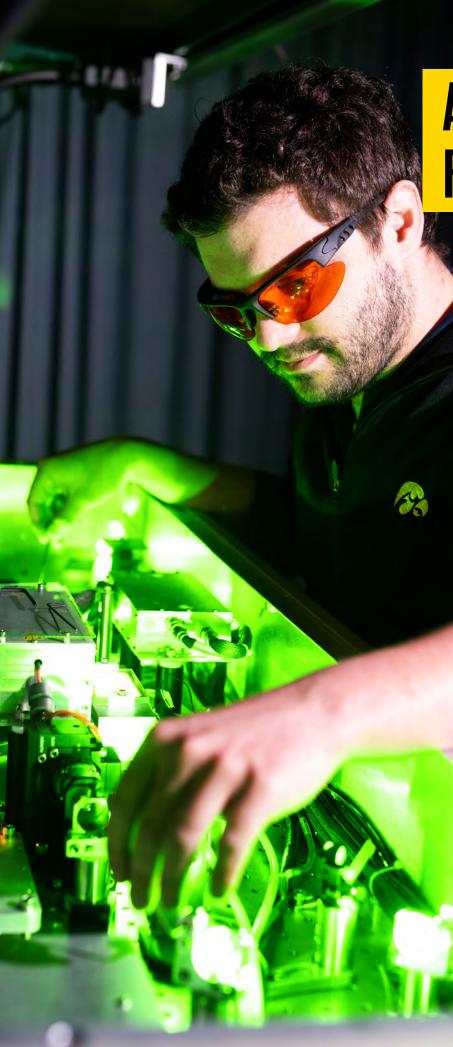


Since January, Professor Christopher Cheatum has served as one of five Associate Deans within the College of Liberal Arts and Sciences —home to Iowa's Department of Chemistry.

In this role, Cheatum serves as a liaison for faculty and leaders

working in the areas of natural, mathematical, and social sciences. He has been with the college since 2003 and continues to work with his <u>research group</u>, which uses lasers to study the motions of proteins on fast time scales, as short as one-millionth of a billionth of a second.

Among Cheatum's many accomplishments, he was the recipient of the 2014-2015 Collegiate Teaching Award and was recognized as a 2011 CLAS Dean's Scholar. He has a strong record for funded research and has supported many graduate students in their pursuit of a Ph.D.



AWARDS AND RECOGNITION

Undergraduate awards and recognition

Department awards

Donald J. Burton & Margaret A. Burton Scholarship Nathaniel Gehrke E. David Cater Scholarship Hannah Crowell Madelyn Daley **Russell K. Simms Scholarship** Clara Stuedemann Kenneth Sando Undergraduate Scholarship Lauren Groenenboom **Chemistry Alumni Awards Senior Recipient** Lauren Groenenboom **Junior Recipient Brie Salloum** Sophomore Recipient Jackson Tupper **CRC Freshman Chemistry Award** Jenna Ringwald Merck Index Award Trevor Larkin American Institute of Chemists Award Dalton Rippey **ACS Division of Analytical Chemistry Award** Lillian Jones Ana Rodriguez ACS Division of Organic Chemistry Award Clara Stuedemann Nathaniel Gehrke **ACS Division of Physical Chemistry Award** Kristin Boyler

Viksnins, Harris, & Padys Poster Award Haley Lightfoot

External recognition

OVPR Dare to Discover Banner Laura Weiler **NSF Graduate Research Fellowship** Lillian Jones

Graduate Student awards and recognition

Department awards

A. Lynn Anderson Award for Research Excellence Changan Li Tina Mihm Mikaela Pyrch University recognition **Ballard and Seashore Fellowship** Mikaela Pyrch, Spring 2022 Blake Hudson, Fall 2022 Chathuri Kaluarachchi, Fall 2022 **CLAS Dissertation Writing Fellowship** Eric Brown Graduate College Post-Comprehensive Research Fellowship Nathan Stumme, Spring 2022 Andrea Van Wyk, Spring 2022 Samantha Kruse, Fall 2022 Graduate College Summer (2022) Fellowship Dulamini Ekanayake Kevin Hunter Samantha Kruse Chamika Madawala Cely Ortiz de Leon Leah Scharlott Joshua Zgrabik **Diversity Fellowship** Josiah Wray, Fall 2022 Council on Teaching Outstanding Teaching Award Jalen Dickson **OVPR Graduate Research Excellence Award** Dmytro Kravchuk Innovations in Teaching with **Technology Award** Joshua R. Coduto

External recognition

NSF Graduate Research Fellowship

Samantha Kruse

NSF Graduate Research Fellowship Honorable Mention

Andrei Corkovic

Merck Research Award for Underrepresented

Chemists of Color

Hoang Dang

Piyumi Wijesirigunawardana

DOE Office of Science Graduate Student Research Fellowship

Logan Augustine

Jessica DeYoung

NSF Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowship

Diamond Jones

Mikaela Pyrch

2022 Seaborg Summer Research Fellowship at the Los Alamos National Laboratory

Dmytro Kravchuk

Selected Presenter: ACS Research Symposium, **Organic Division**

Lucas Howell Cory Ludwig







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