# **Chemistry** at Colorado State University

College of Natural Sciences, Fall 2015

### Letter from the Chair

The fall semester has arrived in Fort Collins, and with it, the next edition of our biannual newsletter. The Department of Chemistry continues to grow and thrive. In addition to a new cohort of undergraduate majors and aspiring graduate students, two new faculty joined us this fall, Dr. Kassy Mies and Dr. Carlos Olivo. Kassy is focused on helping grow our undergraduate program while directing significant efforts on our general chemistry program. Kassy comes to us from Randolph-Macon College where she was a tenured associate professor. Carlos replaces a recently departed Randy Booth as our key academic advisor. Carlos will also contribute to the teaching mission of our undergraduate program. Carlos comes to us from Puerto Rico where he held a similar position for the last several years.

I am pleased to announce the groundbreaking for our new chemistry research building has been scheduled for October 15 at 1:30pm! The groundbreaking ceremony will be done jointly with Biology as we embark on new chemistry and biology buildings. Plans have been submitted for bids, with a target goal of finishing construction by the summer of 2017. Further details on the event are on the following page.

The chemistry department also lost a beloved member this year when Dr. George Splittgerber passed away at the young age of 97. George was a longtime contributor to the department and still frequented campus to visit the library and the main offices. He will be missed.

Finally, I would be remiss if I did not mention that our award-winning faculty continue to C make significant news. Dr. Eugene Chen received the Presidential Award for Green Chemistry this year at a special ceremony at the National Academies of Science. This award is sponsored by the EPA and ACS and given to one academic each year whose work is at the forefront of establishing sustainable chemistry. Dr. Ellen Fisher was named an ACS Fellow at a ceremony during the Fall ACS meeting. At the same meeting, Dr. Debbie Crans received her Cope Scholar Award highlighted in earlier editions of this newsletter. Finally, Dr. Steve Strauss has been awarded the ACS Award for Creative Work in Fluorine Chemistry. Steve will receive this award at a special ceremony at the Spring 2016 ACS meeting. These awards continue to highlight the excellent work our faculty and students are doing.

Sincerely, Charles S. Henry **Department Chair** 



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(Left) Chemistry Academic Advisor Carlos Olivo visits with Cam the Ram.
(Right) Incoming chemistry majors stop to take a picture during Ram Welcome in August.
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Upcoming Events Oct. 15: New Chemistry Research Building Groundbreaking

Oct. 30: CSU Chem Club Halloween!

Dec. 18:

Graduate Commencement

Dec. 19: Undergraduate Commencement



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# DISCOVERY BEGINS HERE

Introducing Colorado State's Gateway to Discovery

**COLLEGE OF NATURAL SCIENCES** 

Colorado State University

## DISCOVERY BEGINS HERE

Introducing Colorado State's Gateway to Discovery

Dr. Janice Nerger, dean of the College of Natural Sciences, invites you to attend the groundbreaking ceremony for the new Chemistry Research and Biology buildings.

### THURSDAY, OCTOBER 15, 2015 AT 1:30 P.M. REMARKS AT 2:00 P.M. FROM PRESIDENT TONY FRANK

**Registration is not required for this event.** Please contact the Office of CSU Events at (970) 491-4601 with questions.

Visit http://www.natsci.colostate.edu/groundbreaking/ for site location and parking. Groundbreaking event located on CSU main campus, north of the Environmental Health Building and west of the intersection of Lake and East Streets.



### Honors and Accomplishments

### **Fisher named ACS Fellow**

Founded in 2009, the **ACS Fellows program** identifies members for outstanding accomplishments and contributions to chemistry and the society. Less than 1,000 of the nearly 158,000 ACS members have been distinguished with this honor, placing **Fisher** among the top one percent of her peers.

"Dr. Fisher elevates Colorado State as a research institution with her work in materials and physical chemistry and her passion for teaching fully embodies our university's land grant heritage," said Alan Rudolph, vice president for research at CSU.

"This is a prestigious honor that recognizes Ellen's contributions to the ACS through her leadership and volunteer activities that further the ACS community," said Chuck Henry, chemistry chair. Dr. Fisher received this award during the ACS National Meeting in Boston on Aug. 17.

Read more about Dr. Fisher's research here.

#### Strauss named recipient of the 2016 ACS Award for Creative Work in Fluorine Chemistry

Professor Steve Strauss has been awarded the 2016 ACS Award for Creative Work in Fluorine Chemistry,



sponsored by the Juhua Group Technology Center in China. This award recognizes outstanding contributions to the advancement of the chemistry of fluorine. Recipients will be honored at the Awards Ceremony on Tuesday, March 15, 2016, in conjunction with the 251st ACS National Meeting in San Diego, CA.

#### Ackerson wins NSF CAREER award

Associate Professor Chris Ackerson was recently awarded the NSF CAREER Award. This award is a prestigious 5-year award in support of junior faculty who exemplify the role of teacher scholars through outstanding research, excellent education, and the integration of education and research. Chris's project, "CAREER: Structure of Inorganic Nonparticle Surface Interfaces Plus Mulitdisciplinary Nanochemistry Undergraduate Teaching Lab" aims to develop a better understanding of metal nanopartical surfaces.



#### Crans recognized at Cope Symposium dinner

**Debbie Crans** received the **2015 Cope Scholar Award** for characterization of the structures and properties of organic vanadium complexes and applying these principles to understand the impact of different coordinated ligands on antidiabetic activity. Debbie and Antonio Echevarran (CSU alumni) were recognized at the Cope Symposium awards dinner at the Boston ACS meeting on August 18.



### Chen awarded the 2015 Presidential Green Chemistry Challenge Award



To recognize the discovery of a landmark clean chemistry technology, the U.S. Environmental Protection Agency awarded a **Presidential Green Chemistry Challenge Award** to Colorado State University Professor of Chemistry **Eugene Chen** on July 13.

Chen, the only award winner recognized in the Academic category, was honored at a ceremony in Washington, D.C., for developing green condensation reactions for renewable chemicals, liquid fuels, and biodegradable polymers. Chen's co-workers, post-doctoral fellow Miao Hong and graduate student D.J. Liu, who developed the nominated technology, also received the award and were recognized at the ceremony. This new technology is waste free and metal free. It offers significant potential for the production of renewable chemicals, fuels, and bioplastics that can be used in a wide range of safer industrial and consumer products.

"This Presidential Award recognizes the exceptional research of Dr. Chen in sustainable chemistry," said Chuck Henry, chair of CSU's Department of Chemistry. "Dr. Chen's work is in converting common renewable materials into functional molecules to create liquid fuels and useful or biodegradable materials by developing novel atom-economical green pathways. This is an important contribution to moving beyond fossil fuels and purely petroleum-based plastics and polymers."

Read more at SOURCE.



### In Memoriam

### **Remembering George Splittgerber**

The College of Natural Sciences has lost a beloved member of the Department of Chemistry, whose warm nature and easy smile will be widely missed. George Splittgerber, a longtime emeritus faculty member, passed away the weekend of July 20 at the age of 97.

George began his 40-year teaching career at Colorado State University in the fall of 1948. During his time here, he served as director of eight National Science Foundation Summer Institutes for high school chemistry teachers at CSU, the University of Nebraska in Lincoln, and Loyola University in New Orleans. The Summer Institutes were attended by teachers from across the United States and provided information on many topics, including expectations for high school science background for incoming students planning to attend Colorado universities.

Additionally, he served as chairman of the Committee on Institutes and Conferences of the Division of Chemical Education of the American Chemical Society and as assistant chairman of the CSU chemistry



department for much of the 1970s. He retired from the University in 1988 after 40 years of service, and he continued to make daily treks to the CSU library to read, relax, and continue his personal research. In 2015, the George Splittgerber Scholarship in Chemistry was created by Dr. Glenn Boutilier and his wife Donna to honor George's enthusiasm for both teaching and learning as well as the invaluable mentorship he provided for countless aspiring chemistry students; George's many accomplishments, and the lives he touched throughout his time at CSU, will not be forgotten.

If you are interested in supporting this fund please go to: <u>https://advancing.colostate.edu/</u> <u>GEORGESPLITTGERBER</u>. Donations may also be made via check made out to the CSU Foundation, and mailed to P.O. Box 1870, Fort Collins, CO 80523-1870. Please list George Splittgerber Scholarship in Chemistry in the memo line.





### Alumni News

#### Melissa Gray (B.S. 2015, McNaughton group)

**Gray** was awarded a **NSF Graduate Research Fellowship**. She graduated cum laude this spring with double majors – ACS certified chemistry and biochemistry. She also minored in biomedical sciences and French. During her undergraduate career, she conducted research in Brian McNaughton's group, as well as a summer in Switzerland, and co-authored two papers. She recently started grad school at Stanford this fall.

#### Kiah Hicks (B.S. 2015, Fisher group)

While most students were celebrating graduation this past May by participating in commencement, **Kiah Hicks** was busy gaining other titles. Hicks won the women's hammer throw recording a distance of 203-8 and also dominated the discus throw, tossing 196-7. She set a WM outdoor championship record and won by more than 12 feet.



While she excels at throwing large objects great distances, Hicks is equally successful – and passionate – in the classroom. She carried a 3.27 GPA in CSU's rigorous chemistry program and is a four-time Academic All-American.

"My main purpose for coming to CSU was to get a degree from a great institution," she said. "I've had some amazing teachers throughout my time here – people who are at the top of their field. I was taught by, not the top 10 percent but by the top .05 percent of teachers in the country. It's an amazing opportunity students here have to be taught by the best of the best."

She cited Nancy Levinger and Chuck Henry as some of her favorite teachers, Ellen Fisher for giving her the opportunity to pursue undergraduate research, and talked about how inspiring it is to witness the ground-breaking research done by Amy Prieto, Tom Rovis and others in the Department of Chemistry.

And she's not through yet. She begins graduate studies this fall at the University of North Carolina, which is home to the nation's No. 2 master's program in pharmacy.

Read more about Kiah's accomplishments, including this excerpt, at <u>SOURCE</u>.

### Student Awards

Each year, our undergraduate and graduate students win countless awards and are recognized for their research in chemistry. We'd like to say **"Congratulations"** in recognition of all your hard work and dedication to the field of chemistry.

#### Jeramy Jasmann (Borch group)

Jasmann was awarded one of the 2015 Graduate Student Awards in Environmental Chemistry by the Division of Environmental Chemistry of the American Chemical Society.





#### Ellen Daugherty (Borch group)

**Daugherty** was named a **2015-2016 SoGES Sustainability Leadership Fellow**. These fellows receive state-of-theart training in environmental communication and professional development skills. Ellen's research aims to better understand some of

the small-scale processes involved in carbon cycling, a major factor in global climate change.



#### Jaclyn Adkins (Henry group)



Adkins was awarded the Physical Sciences Finalist award at CSU's Ventures Innovation Symposium in May for her presentation entitled "Low Cost Paper-Based Sensor for Detecting Bacteria."

#### Rachel Feeny (Henry group)

**Feeny** was awarded the 2nd **Place People's Choice award** at CSU's Ventures Innovation Symposium in May.





#### Serena Debeer (REU student, Crans group)

**Debeer** received her **2015 Young Investigator Award** for the SBIC (Society for Biological Inorganic Chemists) in Beijing, China in July. She is pictured with her former REU mentor, Debbie Crans.

### Student Awards



#### Alli Groninger (Crans group)

**Groninger** has been awarded a scholarship to present her undergraduate research project as an oral presentation at the WoPhyS '15 conference. Alli's research involves the investigation of how benzoic acid interacts with interfaces. Benzoic acid has antituberculosis effects

and is found to collapse the pH gradient in tuberculosis cells. Alli's work is investigating the details in how this process might take place.

#### Monica Lopez-Islas (McNaughton group)

**Monica Lopez-Islas**, a CSU undergraduate performing research in the lab of Professor Brian McNaughton, has been awarded a **research stipend** from the **American Heart Association** to support her research.





#### Xiao (Sherry) Wu (Crans group)

**Wu** has been awarded a scholarship to present her undergraduate research project as an oral presentation at the WoPhyS '15 conference. Sherry will be presenting a poster on her work characterizing the solution structure of vanadium-HEPTA complexes.

#### Cheryle Beuning (Crans group)

**Beuning** has been selected as a **STEM Chateaubriand Fellow**, which gives American doctoral students the opportunity to study in laboratories all across France.



### Fort Collins exhibit opened in July

During a recent visit to Washington, D.C., Chemistry Chair Chuck Henry stopped by the Smithsonian to check out the "Places of Invention" exhibit. One of the featured inventors is chemistry's Associate Professor Amy Prieto.



### Events & Announcements

### **ACS Program in a Box**

### Tales of Lab Safety: How to Avoid Rookie Accidents

Tuesday, October 20 5:00—6:00pm Chemistry B302





### **Chem Club Halloween!**

Friday, October 30th, 5:30—7:30 p.m.

Come join us for a night of

spooky tun

in the Chemistry lobby.



Come visit our booths filled with slime, drinks, bubbles,

bugs, snakes, face painting and more!

### Graduate Women in Science chapter at Colorado State University

The Graduate Women in Science chapter has recently been started on campus. This is part of a <u>national organization</u> with the mission of "advancing the participation and recognition of women in science and to foster research through grants, awards, and fellowships." Local events include social gatherings, networking events, panel discussions, and outreach opportunities. It is an excellent way to meet fellow female graduate students, network, and explore possibilities for future careers. Both students and faculty are welcome to participate. If you are interested in keeping up-to-date on activities or becoming a member, please email Molly McLaughlin (<u>molly.mclaughlin@colostate.edu</u>) with a request to join the mailing list.

### **Congratulations, 2014-2015 Graduates!**

### **Doctor of Philosophy**

Joseph T. Allison Lance N. Ashbrook **Brett Blakeley Richard G. Cornwall** Jenee D. Cyran Sandra M. Deporter Claire M. Filloux Sarah J. Fredrick Jacqueline L. Harding Christina M. Klug Sarah M. Lantvit Jamie M. Neely Eric T. Newcomb Kerem E. Ozboya Long K. San Curtis A. Seizert Daniel J. Shissler Kevin J. Whitcomb

Dec 2014, Rappé Dec 2014, Rappé Dec 2014, McNaughton Dec 2014, Shi Aug 2015, Krummel Dec 2014, McNaughton May 2015, Rovis Dec 2014, Prieto Dec 2014, Reynolds May 2015, Shores Dec 2014, Reynolds Dec 2014, Rovis May 2015, Kennan May 2015, Rovis Aug 2015, Strauss May 2015, Kennan May 2015, Prieto Dec 2014, Van Orden



### **Master of Science**

Chelsey M. Crosse Shuo Feng Johnathan R. Hatfield John J. Hudgins Brynson J. Lehmkuhl Joshua Page Gregory S. Terho Andrew T. Walsh

Dec 2014, Levinger Dec 2014, Chen May 2015, Levinger May 2015, Reynolds May 2015, Henry Aug 2015, Prieto Dec 2014, Neilson May 2015, Farmer



### **Bachelor of Science**

Ryan T. Ash May 2015 Christopher S. Barber Dec 2014\* Erika C. Boyd May 2015\* Sarah E. Boyle May 2015\* Trenton L. Danna Dec 2014\* Derek A. Elam May 2015 Graham J. Ewing Dec 2014\* Steven L. Glade May 2015\* May 2015\* Melissa A. Gray Kiah I. Hicks May 2015 Aaron M. Johnson May 2015 May 2015 Ryan C. Lewis Kenzie L. Moore May 2015\* Emily C. Nock May 2015\* May 2015\* Joshua D. Nordstrom Lyudmila A. Novikova Aug 2015 Eduardo F. Palomares Aug 2015 Valentina H. Pauna Aug 2015 **Billy D. Phillips** May 2015\* Gilman D. Plitt May 2015\* Kassandra F. Sedillo May 2015 Erik K. Sletten Dec 2014\* Zichuan Tian May 2015\* Derrick Vasquez May 2015 Hanna L. Vik May 2015 May 2015\* Chuangi Wang Lisa M. Windom May 2015 Nicholas T. Wolpers May 2015 \*ACS Certified

### In the News

Keep in touch with what's happening in the world of chemistry at Colorado State University. SOURCE provides news & events about the greater CSU community. Our chemistry page offers news, seminar, and event information. Book-mark these pages today!

# SOURCE CHEMISTRY



ACS Publications





BRANKA M. LADANYI FESTSCHRIFT

www.acs.org

I met Branka Ladanyi in 1981, soon after she had arrived at Colorado State. I wanted to have something interesting to do for the summer following my sophomore year in college, so I looked to see if there were any research jobs at CSU, which was in my home town of Fort Collins. I know I was thrilled to be accepted into an NSF URP (undergraduate research participation - the predecessor to the REU) program. I spent the summer working with Branka, learning about Raman scattering and trying to write some Monte Carlo code to model liquids. She was unfazed by my lack of experience and spent significant time helping me to learn. My summer flew by, and I felt that I had not made a lot of progress. Branka must have thought otherwise because she included me as a co-author on a paper she later published. Working with Branka first gave me direction and confidence as a researcher. She started me on a path to my academic career; more than a decade later, I joined Colorado State University with Branka as my colleague. I feel deep gratitude for the scientific and professional guidance she gave to me. What a pleasure it is to honor her with this special issue.

~ Nancy Levinger, University Distinguished Professor

### Branka M. Ladanyi Festschrift

This July, the American Chemical Society published a special issue, including a **festschrift** in honor of **Branka M. Ladanyi**.



Branka joined the faculty at Colorado State University in 1979. Since then, she has made groundbreaking contributions to the theory and modeling of the dynamics and structure of liquids, supercritical fluids, and molecular clusters. Her work has contributed profoundly to our understanding of the properties of molecular fluids, an area critically important to many fields of chemistry. She has blended theoretical and computational statistical mechanics in studies of the structure and dynamics of bulk

fluids, molecular clusters, microemulsions, and liquid interfaces to explore phenomena such as vibrational relaxation, light scattering, nonlinear optical response, and dielectric relaxation. The unifying theme in this research is the desire to unravel the complex dynamics in these systems and phenomena at a microscopic level—a goal that has challenged scientists for generations and one critical for the comprehension of real chemical processes. Branka has achieved remarkable success in achieving this goal in a diverse range of contexts.

Branka is probably best known for her contributions to our understanding of depolarized light scattering and dielectric relaxation/solvation dynamics. More than any other single person, Branka's studies have shaped our understanding of what can be learned about molecular motion in the liquid state from conventional frequency-domain experiments and their newer time-domain analogues. Many scientists using theoretical and computational models work on problems for which there is no comparison to experiment, but not Branka. Throughout her career, Branka has always focused on the challenge of developing models directly applicable to experiment, thereby providing both insight into the chemical processes measured in experiment and true tests for the models she has developed. Her studies of optical spectroscopies as well as light and neutron scattering have explained many of the uncertainties surrounding these experimental techniques, elegantly demonstrating that signals previously thought to arise from individual molecular motions are in fact dominated by collective motion. Her models have pushed many researchers, both experimental and theoretical, to investigate more complex systems, especially self-assembled and biological systems. In studies using neutron scattering, she lent her expertise to challenge the standard models used for interpretation. These studies unequivocally demonstrated the inadequacy of a standard simplification and encouraged development of new, more sophisticated models.

These excerpts can be found online at ACS.

### Meet our New Faculty

### **Dr. Carlos Olivo**

Carlos grew up in a small town on the southeastern corner of Puerto Rico. As a person, he is passionate for outdoor activities, travel, nature, and movies. As a scientist, he likes research in chemical education and environmental analysis and toxicology, focusing on heavy metals pollution.



Carlos earned his B.S. in chemis-

try, with a minor education, in 2001 from the University of Puerto Rico-Humacao. As an undergraduate, Carlos was a member of the Honors Program and conducted research under the supervision of Dr. Ileana Nieves on vanadatemediated enzyme catalyzed reactions in biological systems, having his work presented in multiple scientific meetings.

Carlos then earned an M.S. in environmental chemistry at Universidad del Turabo in 2003. His thesis addressed lead and copper pollution issues on the drinking water distribution system in rural communities of Puerto Rico, using ICP-MS and cluster analysis techniques. Carlos attended the University of Puerto Rico-San Juan and received his doctorate in Chemical Education in 2007. His dissertation work focused on non-major students attitudes towards chemistry.

Since 2003, he has been teaching general chemistry and upper-division laboratories at public and private institutions of higher education such as: Polytechnic University of Puerto Rico, University of Puerto Rico-Bayamon, University of Puerto Rico-Humacao and Universidad del Turabo. He was coordinator and graduate application advisor for the McNair Scholars Program at his alma mater institution. From 2011 to 2015, he was associate dean of science at Universidad del Turabo, graduate teaching assistants supervisor and coordinator of the general chemistry program. Back in his lab, he was investigating the effects of waterborne lead and copper ions on the serotoninergic and dopaminergic systems of zebrafish; and the early engagement of veterinary students into chemical research.

Carlos has collaborated in many externally funded research projects throughout his career, including National Science Foundation, National Institute of Health and US Department of Education grants, especially those involved in student



support services and research training for undergraduates. He has also mentored graduate students in chemical education, environmental sciences, and has supervised undergraduate honors theses as well.

Carlos found a new home in Fort Collins and joins the faculty of Colorado State University as Key Academic Advisor/Instructor in the Department of Chemistry.

### Dr. Kassy Mies



After growing up in a small town in northwest Ohio, Kassy graduated summa cum laude from Randolph-Macon College, in Ashland, VA in 2002 with a B.S. in chemistry and minors in Spanish and biology. At R-MC, she worked on several chemistry research projects including investigating a novel drug encapsulation system and synthesizing small organometallic compounds as potential catalysts. Kassy then went on to complete her graduate studies in chemistry at Duke University where she examined biophysical characteristics of iron-siderophores and iron-siderophore mimics in the laboratory of Al Crumbliss.

After receiving her Ph.D. from Duke in 2007, Kassy spent the next six years of her career as a tenure-track faculty member at Meredith College, a small, private, primarily undergraduate institution in Raleigh, NC. During her time at Meredith, she taught a wide range of introductory and upper-level chemistry courses, developed an active undergraduate research laboratory, advised over 100 students in their academic and career paths, and served as the Program Coordinator for both the chemistry department and the Engineering Dual Degree Program with North Carolina State University.

Shortly after receiving tenure at Meredith College, Kassy was offered a teaching and research focused position at her undergraduate alma-mater, Randolph-Macon College, which she enthusiastically accepted. While back at R-MC for two years, she was able to focus exclusively on teaching and research, expanding her teaching repertoire to include the biochemistry sequence and mentoring numerous students in undergraduate research projects.

She joined the CSU teaching faculty this fall and looks forward to helping out with the general chemistry program. Kassy loves the outdoors and already feels at home in the Fort Collins and CSU communities.

### News from the CIF

As usual, this column serves to give you an update on what has been happening at the CIF, what new capabilities we've added in terms of instrumentation and applications, as well as courses and training. We're exited to inform you about our official designation by the VPR as one of four Foundational CSU CORES (<u>https://vprnet.research.colostate.edu/VPR/research-core-facilities/</u>). This will bring additional support to better sustain the CIF as an essential research and educational service center.



### Raman Spectroscopy for 2015 and Beyond

Our optical spectroscopist, Richard Cole, has successfully developed a research-grade Raman spectrometer. The instrument is currently capable of measuring Raman spectra in transparent samples although instrumentation is being developed to measure spectra at surfaces and bulk materials. The instrument operates at 632.8 nm (HeNe laser) in the backscattering configuration with spectral resolution of approximately 4.5 cm<sup>-1</sup>. Both polarized and depolarized spectra can easily be measured. A variety of samples are needed to both test and expand the capabilities of this Raman instrument, so if you have interest in measuring Raman spectra, please let us know.

### Fall 2015 Inaugural TEM Class

Our Imaging and Surface Science laboratory will be offering a practical TEM short course this fall that will provide intensive hands-on training on the JEOL JEM-2100 TEM to five students. Dr. Roy Geiss will be teaching this class starting September 13. It will run for 8-10 weeks with a three-hour commitment each week. This is a no-credit class for this first go, with offerings likely to continue in the following semesters. We expect that those students taking this advanced TEM class should be completely familiar with the basic operation of the instrument at the end of the course, and able to run the instrument with minimal assistance from TEM staff. Please talk to Dr. Geiss for more information.





### New Personnel

We welcome Dr. Claudia Boot as our newest staff member in the CIF.

Claudia obtained a Ph.D. in Ocean Science, from the University of California, Santa Cruz in 2007. Her Ph.D. was focused on the structure elucidation of novel marine natural products using NMR and MS. She has since applied her expertise in natural ecosystems tracking the transformations of organic matter through specific compound analyses via HPLC with a variety of detection modes, community-level chemical characterization of extractable material via MS-based meta -metabolomics, and by monitoring shifts in the overall molecular functionality of organic matter using NMR. She will assist in the CIF's analytical research service

offerings, training, and maintenance for the MS, NMR and optical instruments, and with the annual Summer Schools. We are very excited to have you on board, Claudia!

# **Giving to Chemistry**

### **New Scholarship Opportunities**

#### Nancy E. Levinger Undergraduate Research Fellowship

Alumnus Kyle Kung (B.S. 1996) established this fellowship in honor of his professor and mentor, Dr. Nancy E. Levinger.

#### George Splittgerber Scholarship in Chemistry

This scholarship was established by alumnus Dr. Glenn Boutilier (B.S. 1974) and his wife Donna to honor longtime CSU chemistry professor, Dr. George Splittgerber.

#### The Mark P. Sweet Chemistry Scholarship

This scholarship was created in memory of alumnus Mark Sweet (Ph.D. 1989) by his family. This fund benefits students majoring in organic chemistry within the chemistry department in the College of Natural Sciences at Colorado State University.

Dr. Robert Williams Chair in Organic Chemistry Endowment

Please visit our <u>Giving</u> page to learn more about all of the current giving opportunities.



SUPPORTING Colorado State University



Dr. Robert Williams has had an extraordinary research and teaching career at Colorado State University. To honor his work and continue his research legacy, the College of Natural Sciences seeks to establish the <u>Dr. Robert Williams</u> Endowed Chair in Chemistry.

Dr. Williams has been dedicated to involving many students in his research through the Williams Research Group, training successive generations of scientists who are making their own marks in bio-organic chemistry and biosynthesis. His students have gone on to careers as scientists at pharmaceutical companies and as educators. "I love watching students become scientists," Dr. Williams has said. "By the time they are done here, they're ready to take on the world, and that's very satisfying."

The Dr. Robert Williams Endowed Chair in Chemistry will allow Colorado State University to recruit to the College of Natural Sciences an established organic chemist or chemical biologist who is an outstanding scholar, gifted teacher, and exceptional researcher who has made significant contributions to his or

her field of study. Attracting and retaining top scholars and researchers allows Colorado State to recruit the best undergraduate and graduate students from Colorado, the nation, and around the world. A faculty member who is awarded the Dr. Robert Williams Endowed Chair in Chemistry will bring ongoing prestige to the University through research, mentoring, published works, and speaking engagements.

Please join us with a gift to support the Dr. Robert Williams Endowed Chair in Chemistry, and continue the legacy of teaching, mentoring, and groundbreaking research conducted by Dr. Williams, his colleagues, and his undergraduate, graduate, and postdoctoral students.