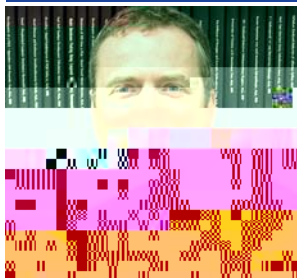


# NEWS

## Letter from the Chair



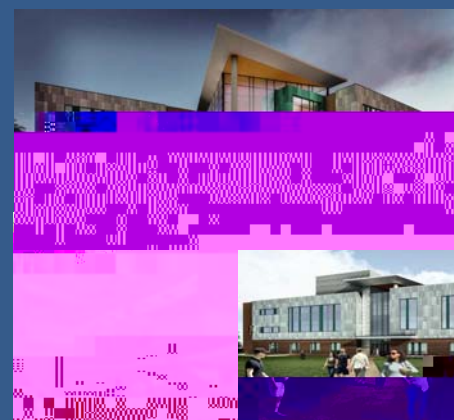
[groundbreaking.php](https://www.slu.edu/news/announcements/2018/october/ise-building-groundbreaking.php) (yes, that is me wearing a hardhat, 6th person from the left; Dana Baum is 5th from the right), with a few more details here: <https://www.slu.edu/news/announcements/2018/october/ise-building-groundbreaking.php>. This building will house many different departments including parts of chemistry, biology, computer science, and engineering. We are moving our general chemistry, principles of chemistry, and organic chemistry teaching labs to the ISE. Don't worry, we are also still in Monsanto and Shannon Halls. The vacated teaching labs in Monsanto will be remodeled and turned into research labs so that we can finally have more research space. The building should be open in time for classes in the Fall of 2020. We are excited to get our teaching labs into updated space, with fume hoods for everyone in organic!

Other big news is that we have started a new chemical biology and pharmacology degree program, both at the bachelors and masters level. Prof. Marv Meyers (new faculty member in our department) is leading this effort. As you probably know, chemical biology is the application of chemistry towards solving biological problems, and pharmacology is the study of the action of drug molecules. A key feature of this program is that students will not only take courses in chemistry but also courses from the Departments of Biology and

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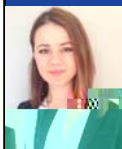
## HIGHLIGHTS

- x Starving new undergraduate and graduate degrees in Chemical Biology
- x New Interdisciplinary Science and Engineering Building opening Fall 2020
- x 160 undergraduate majors (24 graduating in 2019)
- x 40 full time graduate students (recently graduated 5 Ph.D. and 6 M.S. students)
- x Over \$1 million in grant expenditures in FY20, recent grant awards from NSF and NIH (including 3 R01s, an R21, and an R15)
- x 45 publications last year

Pharmacology/Physiology, leading to a well-rounded degree for students who want to continue their studies in professional/graduate school or want to work in industry. Details about specifics of these programs can be found here: <https://catalog.slu.edu/colleges-schools/arts-sciences/chemistry/chemical-biology-pharmacology-bs/> and <https://catalog.slu.edu/colleges-schools/arts-sciences/chemistry/chemical-biology-ms/>.

We have always had great students, both undergraduate and graduate. We have information on some of their awards later in the newsletter. In terms of the numbers, we have continued to grow as a department. We currently have almost 160 undergraduate majors, and we are graduating 24 undergraduate chemistry majors in 2019 (15 biochemistry and 9 chemistr

# Meet the Faculty



**Asmira Alagic** - Chemistry  
Education

**Charles Kirkpatrick** -  
Inorganic and Associate  
Department Chair

**Jamie Neely** - Inorganic



**Christopher Arnatt** -  
Organic

**Istvan Kiss** - Physical

**Robert Perkins** –  
Chemistry Education

**Christy Bagwill** - Organic  
Chemistry Education

**Bruce Kowert** - Physical

**Daria Sokic-Lazic** –  
Chemistry Education

**Dana Baum** -  
Biochemistry and Graduate  
Program Coordinator

**Michael Lewis** - Organic

**Brian Woods** – Chemistry  
Education

**Paul Bracher** - Organic

**Piotr Mak** - Physical

**Brent Znosko** –  
Biochemistry and  
Undergraduate Program  
Coordinator

**Steven Buckner** -  
Analytical

**Scott Martin** -  
Bioanalytical and  
Department Chair

## Emeritus Faculty

**Alexa Serfis**

**Doug Crandell** - Chemistry  
Education

**Ryan McCulla** - Organic

## Staff

**Ashely Baltz** - Electronics Technician

**Mike Briscoe** - Machinist and Glass  
Shop

**Elena Castiaux** - Assistant General  
Chemistry Lab Coordinator

**Jessica Hartling** - Assistant Organic  
Chemistry Lab Coordinator

**Fahu He** - NMR Lab Manager

**Angela Jougard** - Grants  
Development Specialist

**Shontae Williams** - Administrative  
Assistant II

**James Edwards** -  
Analytical

**Marvin Meyers** -  
Medicinal & Organic

**Paul Jelliss** - Inorganic

**Jennifer  
Monahan** -  
Analytical

**Asmira Alagic** - In fiscal year 2017-2018, I have endeavored on a new adventure of implementing active learning modules in large chemistry lectures and smaller laboratory settings. After attending multiple workshops on Active learning design and implementation, I partnered with 3 other faculty members in the department to write a grant proposal to aid in development and execution of active learning modules across all large general chemistry, GOB, and basic chemistry courses. Thankfully our proposal was fully funded, allowing us to spend the summer of 2018 developing these new active learning modules. The modules are currently being implemented and data on effectiveness is being collected.

As a fun note, in spring 2018 I ran a marathon relay with another faculty member and couple of chemistry graduate students. Later in the fall, I trained and ran a half marathon with former gen chem students.

**Chris Arnatt** - Dr. Arnatt was awarded a Saint Louis University Research Growth Fund Award for buying equipment for the synthetic chemistry laboratories in the department. The department now has 4 automated combiflash flash chromatography units, an automated microwave synthesizer, and waterless condensers. This equipment will be used to further

the department's research and teaching mission.

**Dana Baum** - Dr. Baum was named to the Provost's Science/Engineering@SLU Task Force in Fall 2017. This task force looked at the role and the future of science and engineering at SLU and has provided recommendations that are currently being shared and discussed with the campus as a whole. In research news, the Baum Lab has recently published in the journal *Aptamers* on herbicide-specific aptamers and continues an exciting collaboration with researchers at the University of Missouri-Columbia that is supported by NASA.

**Christy Bagwill** - Dr. Bagwill teaches Principles of Chemistry lecture and labs, and organic labs. This is an exciting time as we are preparing to move to newly renovated lab space in Macelwane Hall. Stay tuned to find out more about these developments! Dr. Bagwill was also part of a team of Chemistry faculty members that were awarded a KEEN grant that focuses on the development of new teaching methodologies that encourage entrepreneurial mindset.

**Paul Bracher** - In 2018, the Bracher Group celebrated the graduation of its first Ph.D. student, Thomas Campbell. Members of the group traveled to

give presentations in Galveston (Origins of Life Gordon Conference), Atlanta (Center for Chemical Evolution), and Philadelphia (SMASH NMR Conference). The group's research on potassium and the origin of life was covered by HEC-TV (<https://youtu.be/OwTaZbEiEeo>). Finally, Paul's story from the March 2018 Story Collider is available online at KWMU/St. Louis Public Radio (<https://bit.ly/2G2zDH3>).

**Steven Buckner** - Calvin Nyapete defended his dissertation in the summer of 2018 (Synthesis and

develop a universal chemical tagging system (with the Arnatt Lab) to boost mass spec sensitivity for all small molecules. This past year we've published in the Analytical Chemistry (ACS), Analyst (RSC), Analytica Chimica Acta, Journal of Chromatography A, Cell Metabolism, and a Fundamental Review for Analytical Chemistry.

**Paul Jelliss** - Dr Jelliss has been teaching General Chemistry courses throughout the year, including the Summer session. Research time is split between synthesizing and developing novel nanomaterials and studying metallocarborane complexes. A small portion of his time has been dedicated to helping run a start-up business,

published 3 papers, and Prof. McCulla was awarded the Graduate Student Association's Mentorship Award, which honors one outstanding mentor at the university each year. 'f0 a



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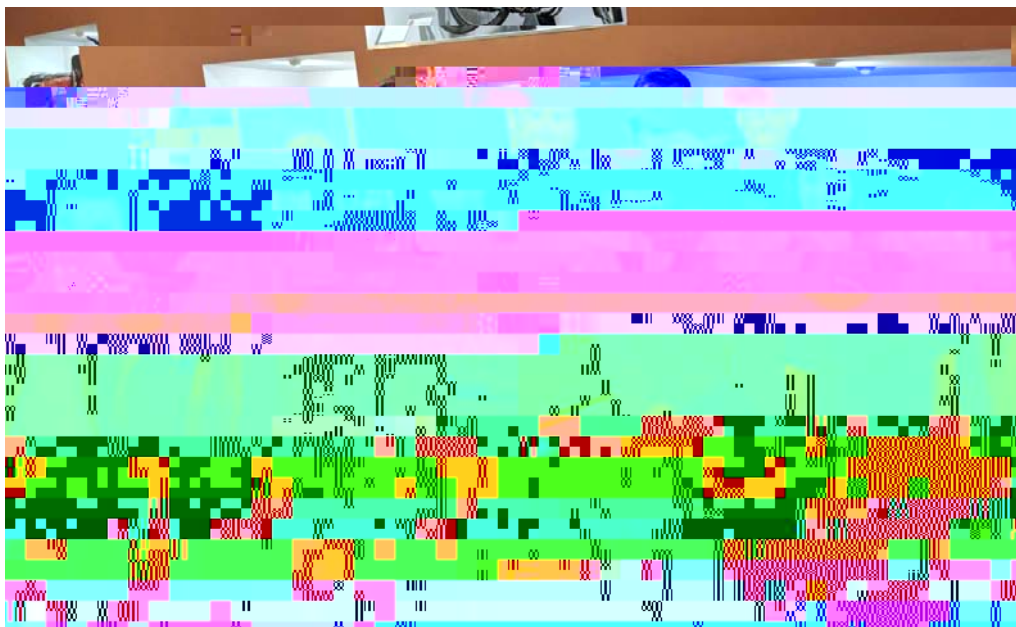






# Departmental Award Winners

Outstanding Freshman Chemistry Student.....	<b>San Kwon</b>
Vincent Spaziano Memorial Scholarship.....	<b>Conor Honan</b>
Hugh B. Donahoe Award in Organic Chemistry.....	<b>Roe Dar</b>
American Chemical Society Undergraduate Award in Analytical Chemistry.....	<b>Roe Dar</b>
Upperclassmen Chemistry Scholarship.....	<b>Daniel Ranciglio</b>
Saint Louis Section American Chemical Society	
Outstanding Junior Chemistry Award.....	<b>Sravya Ainapurapu</b>
American Chemical Society Undergraduate Award in Physical Chemistry .....	<b>Kimberly Tomchak</b>
James D. Collins Award for Excellence in Student Academic Achievement.....	<b>Holly Kleinschmidt</b>
American Chemical Society Undergraduate Award in Organic Chemistry .....	<b>Mingyu Choi</b>
American Chemical Society Undergraduate Award in Inorganic Chemistry .....	<b>Sravya Ainapurapu</b>
CRC Press Chemistry Achievement Award (Undergraduate) .....	<b>Rishi Patel</b>
Royal Society of Chemistry Certificate of Excellence (Undergraduate) .....	<b>Mingyu Choi</b>
American Institute of Chemists Outstanding Senior Student Award .....	<b>Kimberly Tomchak</b>
CRC Press Chemistry Achievement Award (MS).....	<b>Elizabeth Hayter</b>
Royal Society of Chemistry Certificate of Excellence (MS) .....	<b>Corey Richards</b>
American Institute of Chemists Outstanding Masters Student Award .....	<b>Jack Samuelian</b>
Carol M. and Joseph R. Franks Graduate Award in Chemistry .....	<b>Rio Rebrian</b>
CRC Press Chemistry Achievement Award (PhD) .....	<b>Alexandra Harrison</b>
American Institute of Chemists Outstanding PhD Student Award.....	<b>Yifan Liu</b>
Royal Society of Chemistry Certificate of Excellence (PhD) .....	<b>Katie Richardson</b>
SLU Chemistry Department Teaching Award .....	<b>Katie Sanders and John Throgmorton</b>





# Alumni Update

We would love to hear from you. Please fill out this brief form here:

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