Dear Friend of Chemistry,

Our students are tremendous! We are very proud of the 375 students who graduated this year with bachelor’s degrees in chemistry or biochemistry. Students Daniel Brock and Ethan Hills have received the 2018-19 Levinson Emerging Scholar Award. Three of our students, Jack Jiang, Dane Johnson, and Heather Klug, have been awarded Washington Research Foundation Fellowships. I am particularly pleased to announce that Hyeon-Jin Kim was selected as the 2018 Dean’s Medalist in the Natural Sciences.

Graduate student awards include NSF Graduate Research Fellowships to Rob Weakly and Zachary Cohen. Marcus Woodworth won an NIH Predoctoral National Research Service Award (F31). Samuel Berry won an NSF Global Research Opportunities Worldwide (GROW) fellowship.

Our graduate students, particularly those in the first year, make crucial contributions to the education of our many undergraduate students. The incoming cohort of graduate students for the 2018-19 academic year consists of 43 students: 20 women and 23 men from top universities in the U.S. (36) and abroad (7). Students are attracted to our program by the caliber of the faculty with whom they will study, the UW’s tradition of excellence, and the quality of life in the Seattle area.

We are continuing to use a rotation system for our first-year graduate students to get acquainted with the work and culture of research groups they may be interested in joining. The rotation is meant to facilitate students’ finding a good fit with their Ph.D. advisor, for which the selection process will take place at the end of the current quarter, with students beginning their research work in the new year.

One important change to our graduate program is that we have reorganized the job of associate chair for graduate education to be done by two people. Professor Xiaosong Li will take charge of recruiting and admissions activities. He will oversee the new students until they join a research group. Student progress through various examinations and other milestones will continue to be overseen by Professor Rob Synovec. We also have a new staff person, I. Christine Gormley, who will administer the graduate program and advise students.

While we did not make any new appointments of tenure-track faculty in the past year, we did hire a new lecturer. Dr. Samantha Robinson joined us in September and is contributing to our entry-level and organic teaching program. (See page 4 for more on Samantha.)

Our research program continues to prosper. Our faculty have been very successful in winning highly competitive grants to support their work from a variety of sources. The directions of research pursued in the Department continue to evolve. Newer areas of research are emerging in materials chemistry, particularly in applications to energy generation and storage.

Continued on back page
On June 1, 2018, Niels Andersen joined the ranks of our emeritus faculty following his retirement from the University of Washington. The dawning of an autumn quarter without Professor Andersen has not been experienced by any current UW Chemistry faculty member, as the 1967-68 academic year was the last to commence without him as an active member of our faculty.

Fifty years of service unquestionably qualifies as above and beyond the call of duty. In his long and outstanding career, a conservative estimate is that tens of thousands of students had the pleasure of taking his introductory organic chemistry courses. Forty-four graduate students earned the Ph.D. with Professor Andersen as their thesis advisor. His work with undergraduate and graduate students, postdoctoral research associates, and others resulted in more than 230 peer-reviewed publications and 14 patents.

Niels Andersen earned a B.A. in chemistry and mathematics from the University of Minnesota. He completed his Ph.D. in chemistry at Northwestern University in three short years, where he studied the synthesis and structure identification of terpenoid natural products with Professor James Marshall. From there, young Dr. Andersen accepted a prestigious postdoctoral position with Professor E. J. Corey at Harvard University, where he participated in an internationally known research program directed at the synthesis of the newly discovered family of biologically important molecules called prostaglandins.
Professor Andersen joined the UW Department of Chemistry as assistant professor in 1968, at the age of 24. Today, a newly hired assistant professor is typically about 30 or even 35 years of age. Although a somewhat less extensive period of pre-faculty training was more typical in the 1960s, starting at the age of 24 was extraordinary even then.

The Andersen research group pursued a vigorous agenda that continued to advance our understanding of terpenoid structures, biosynthesis, and chemical syntheses. Yet as early as the mid-1970s, there were indications in Professor Andersen’s work reflecting his interest in the use of spectroscopic techniques, particularly nuclear magnetic resonance (NMR) spectroscopy, to explore issues of solution conformation of biologically important molecules.

Over the next several decades, Professor Andersen’s research program fully transitioned to one focused on the use of spectroscopy to explore fundamental thermodynamics and structural features associated with biorecognition phenomena, particularly pertaining to proteins and protein analogs. In this more recent phase of his career, his research group is best known for the creation of a very small protein—the TrpCage miniprotein, just 20-amino-acid residues in size—that exists in aqueous solution in a folded state containing secondary and tertiary structural elements. The system has proven valuable for those interested in computer simulation of protein folding.

It is a sign of the vibrancy of the sciences that, across decades, new fields emerge, mature, and eventually fade. But that vibrancy comes at a cost to individual investigators, who can see their chosen field fall from the popularity that is critical to attracting co-workers, publishing work, and competing favorably for the external funding needed to pay the bills. The field of natural product identification and synthesis—pursued by a great many organic chemists in the early and even mid-years of Professor Andersen’s career—fell somewhat from favor in more recent decades. Professor Andersen’s ability to weather that crisis, and to transition his research program to the newer, exciting and, yes, popular field of protein structure and dynamics is a sign of his great intellectual ability and flexibility.

Since 1968, Professor Andersen has been an outstanding contributor in all of the areas expected of a professor at a major research university: research, teaching, and service. In addition to thousands of UW students, he has mentored a great many faculty colleagues, in science as well as in living a full life with varied passions. For all of these things we are thankful. We wish Niels and his spouse Susan well in their next life stage.
Samantha Robinson, Lecturer

Dr. Samantha Robinson was born in southern Illinois and raised in Grinnell, Iowa. She received a B.S. in chemistry from the University of Iowa in 2009. While there, she was first introduced to research in the group of Professor Lou Messerle where she worked on lanthanide cluster synthesis and characterization.

She received her Ph.D. from the University of Washington in 2014. Her graduate research with Professor D. Michael Heinekey in the area of inorganic chemistry—focused on generating electrophilic inorganic molecules capable of binding molecular dihydrogen—resulted in some of the first reported nickel and palladium dihydrogen complexes.

After completing her degree, she began a postdoctoral appointment at Pacific Northwest National Laboratory in Richland, Washington working in the Catalysis Science group with Drs. Aaron Appel and John Linehan. Her research focused on using high-pressure NMR spectroscopy to study the thermodynamics of catalytic conversion of CO2 and hydrogen to formate in various solvents.

Dr. Robinson began her independent career at Seattle Pacific University in Autumn 2015 and was thrilled to develop her teaching skills there. She is happy to be back at the UW, and Mike Heinekey is delighted to have her join our faculty as, “her varied experiences in teaching makes her a strong addition to our outstanding group of lecturers.”

Professor Forrest Michael, chair of the committee that hired Dr. Robinson, says, “In addition to her extensive experience in curriculum development, we were impressed by Samantha’s interactions with students across a wide range of class sizes and environments. Her thoughtfulness on how to best engage with and encourage learning in a diverse student population is well-suited to the broad but constantly-evolving scope of our instructional program.”

When not spending time preparing for class or meeting with students, Dr. Robinson enjoys exploring the Pacific Northwest with her husband, Patrick, and their one-year-old son.

For more information about Dr. Robinson and her teaching, please contact her directly at sjconnel@uw.edu.

Ph.D. Chemistry, 2014
UNIVERSITY OF WASHINGTON
Dissertation: Preparation & Reactivity of Sigma-Complexes
Advisor: D. Michael Heinekey

B.S. Chemistry with honors, 2009
UNIVERSITY OF IOWA
Honors Thesis: Aqueous preparation of crystalline lanthanide cluster compounds
Advisor: Louis Messerle
FELLOWSHIPS, AWARDS & HONORS

FACULTY

Brandi Cossairt
National Fresenius Award, Phi Lambda Upsilon

Colleen Craig
Inaugural Academic and Student Affairs Teaching Fellow, UW Center for Teaching & Learning

David Ginger
Elected Member, Washington State Academy of Sciences

Karen Goldberg
Elected Member, National Academy of Sciences

Munira Khalil
Fellow, American Physical Society

Alshakim Nelson
CAREER Award, National Science Foundation
3M Faculty Award

Ashleigh Theberge
Beckman Young Investigator Award, Arnold and Mabel Beckman Foundation
Maximizing Investigators’ Research Award, National Institutes of Health

František Tureček
Honorary Member, Czech Society for Mass Spectrometry

Usha Varanasi
Fellow, American Association for the Advancement of Science

Sotiris Xantheas
Elected Member, Washington State Academy of Sciences
Specially Appointed Professor, World Research Hub Initiative, Tokyo Institute of Technology

POSTDOCTORAL RESEARCH ASSOCIATES

Connor Bischak
Washington Research Foundation Postdoctoral Fellowship

Matthew Crane
Washington Research Foundation Postdoctoral Fellowship

Max Friedfeld
Washington Research Foundation Postdoctoral Fellowship
Mistletoe Foundation Unfettered Research Grant

Daniel Kroupa
Forbes’ 30 Under 30: Energy
Mistletoe Foundation Unfettered Research Grant

Arun Babu Kumar
US Young Investigator Travel Grant, The Association for Mass Spectrometry

Jian Wang
Mistletoe Foundation Unfettered Research Grant

GRADUATE STUDENTS

Todd Anderson
Lloyd E. and Florence M. West Fellowship in Chemistry

Amrita Basu
Lewis R. and Joan M. Honnen Endowed Fellowship in Chemistry

Ryan Beck
Clean Energy Institute Graduate Fellowship

Kelsey Berrier
Lloyd E. and Florence M. West Fellowship in Chemistry

Samuel Berry
National Science Foundation Global Research Opportunities Worldwide Fellowship

Maike Blakely
Joseph Bouknight Endowed Fellowship for Chemistry

Jacob Busche
Lyle H. Jensen Graduate Fellowship

Emma Cave
Clean Energy Institute Graduate Fellowship
FELLOWSHIPS, AWARDS & HONORS

Christine Chang  
Clean Energy Institute Graduate Fellowship

Zachary Cohen  
NSF Graduate Research Fellowship

Caitlin Cornell  
Basil G. and Gretchen F. Anex Endowed Fellowship

Kathryn Corp  
Lloyd E. and Florence M. West Fellowship in Chemistry

Andy Dang  
Irving and Mildred Shain Endowed Fellowship in Chemistry

Florence Dou  
Mickey and Karen Schurr Endowed Graduate Support Fellowship

Rae Eaton  
Lloyd E. and Florence M. West Fellowship in Chemistry

Yunshan Fan  
Lloyd E. and Florence M. West Fellowship in Chemistry

Benjamin Figueroa  
Lloyd E. and Florence M. West Fellowship in Chemistry

Andrew Francis  
Christopher and Karen Pohl Endowed Fellowship in Chemistry

Shaun Gallagher  
David M. Ritter Endowed Scholarship

Theresa Gozzo  
Tomas Hirschfeld Endowed Fellowship

Marco Howard  
S. P. Pavlou and D. E. Strayer Endowed Fellowship in Chemistry

Laura Jacoby  
Natt-Lingafelter Endowed Fellowship in Chemistry

Mary Cecilia Johnson  
Clean Energy Institute Graduate Fellowship

Lauren Kang  
Husky 100

Victoria Kensy  
Charles Dean Wolbach Endowed Fellowship in Chemistry

Yang Liu  
Norman and Lillian Gregory Endowed Fellowship in Chemistry

Lixin Lu  
Benton Seymour Rabinovitch Endowed Fellowship

Pengtao Lu  
American Chemical Society Excellence in Graduate Polymer Research Symposium

Shutian Lu  
Rowland Endowed Fellowship in Chemistry

Siyami (Cem) Millik  
Arthur G. Anderson Endowed Fellowship

Alexis Mills  
Paul H. and Karen S. Gudiksen Endowed Fellowship

Benjamin Mitchell  
Schomaker Endowed Fellowship in Chemistry

Marja (Beth) Mundy  
Clean Energy Institute Graduate Fellowship

Ian Murphy  
Clean Energy Institute Graduate Fellowship

Laura Pascual  
Raymond and Sally Paxton Endowed Fellowship in Chemistry

Samantha Phan  
Clean Energy Institute Graduate Fellowship

Ben Poulter  
Kwiram/CCR Fellowship

Sarah Prebhalo  
Raymond and Sally Paxton Endowed Fellowship in Chemistry

Emily Pruitt  
Gary and Sue Christian Graduate Student Support Fellowship in Chemistry

Joo Yeon Diana Roh  
Clean Energy Institute Graduate Fellowship

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Patrick Shelton  
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Jessica Simon  
ARCS Foundation Fellowship
Ethan Stoddard
Amy Scott and Stephen C. Alley
Endowed Fellowship in Chemistry

Milomir Suvira
Howard J. Ringold
Endowed Fellowship

Wei Pin Teh
Lloyd E. and Florence M. West Fellowship in Chemistry

Kelly Walsh
Lloyd E. and Florence M. West Fellowship in Chemistry

Robert Weakly
NSF Graduate Research Fellowship

Claudia Willis
Regan Shea Family Endowed Fellowship in Chemistry

Marcus Woodworth
NIH Predoctoral National Research Service Award

2017-18 ALMA MATER TRAVEL AWARDS
Recipients of these travel awards receive funds to present a seminar on their Ph.D. research at their undergraduate alma mater.

Tyler Chozinski
University of Arizona (Tucson, AZ)

Andy Dang
San Jose State University (San Jose, CA)

James Gaynor
University of Portland (Portland, OR)

Kimberly Hartstein
Washington University in St. Louis (St. Louis, MO)

Hongbin Liu
Fudan University (Shanghai, China)

Marja (Beth) Mundy
Davidson College (Davidson, NC)

Johanna Schwartz
Bard College at Simon's Rock (Great Barrington, MA)

Patrick Shelton
Western Washington University (Bellingham, WA)

UNDERGRADUATE STUDENTS

Kimberly Anderson
Distinguished Research in Chemistry

Daniel Brock
Levinson Emerging Scholar

Catherine Chang
Distinguished Research in Chemistry

Donald J. Hanahan Endowed Scholarship in Chemistry or Biochemistry

Ryan Chu
Distinguished Research in Chemistry

Kyle Curtis
Levinson Emerging Scholar

Rebecca Danford
Usha and S. Rao Varanasi Endowed Diversity Scholarship in Chemistry

Sabrina Estes
P. C. Cross Award

Sedona Ewbank
Husky 100

Rex J. and Ruth C. Robinson Scholarship

Washington Research Foundation Fellowship

Jacob Fillman
Ed F. and Clara M. Degering Tuition Scholarship

Ryan Flores
P. C. Cross Award

Ethan Hills
Levinson Emerging Scholar

Jack Jiang
Washington Research Foundation Fellowship

Dane Johnson
Ed F. and Clara M. Degering Tuition Scholarship

Washington Research Foundation Fellowship

Julia Joo
Washington Research Foundation Fellowship

Zalia Jencks Rowe Undergraduate Tuition Scholarship
FELLOWSHIPS, AWARDS & HONORS

Mitchell Kaiser
Distinguished Research in Chemistry

Hyeon-Jin Kim
Boeing Scholarship
Dean’s Medal in the Natural Sciences
Distinguished Research in Chemistry
Levinson Emerging Scholar

Hyung Chan Brian Kim
Distinguished Research in Biochemistry

Heather Klug
Washington Research Foundation Fellowship

Briana Lee
Washington Research Foundation Fellowship

Felix Leeb
Distinguished Research in Chemistry

Isaiah Lemmon
Honors General Chemistry Achievement Award

Andrew McAlister
Distinguished Research in Biochemistry

Cecilia Nguyen
Distinguished Research in Biochemistry

Donovan Phua
Distinguished Research in Biochemistry

Avery Pong
Earl W. Davie Endowed Scholarship in Chemistry or Biochemistry

Skylar Sherman
H. K. Benson Undergraduate Tuition Scholarship

Natali Shumlak
Distinguished Research in Biochemistry

Irika Sinha
Honors General Chemistry Achievement Award

Alder Strange
Junior Medalist (2016-17)

Grace Wang
Freshman Medalist (2016-17)
Gerald and Sheila Berkelhammer Book Award
Hyp Dauben Award

Timothy Welsh
Churchill Scholarship
Rex J. and Ruth C. Robinson Scholarship

Jason Wien
Honors General Chemistry Achievement Award

Penghan Yang
Distinguished Research in Biochemistry

Jie Yin
Husky 100
Levinson Emerging Scholar

DOCTORAL DEGREES AWARDED

Daniel Bahaghighat, Ph.D. Chemistry
Development of Ultra-Fast Modulation for Application to Multi-Dimensional Gas Chromatography
(Professor Robert Synovec)

Madhumitha Balasubramanian, Ph.D. Chemistry
Studying Ultrafast Vibrational Dynamics of Intramolecular Hydrogen Bonds using Broadband Infrared Pump-Probe Spectroscopy
(Professor Munira Khalil)

Erika L. Buckle, Ph.D. Chemistry
Characterization of the Structures of Small Peptides and their Interactions with Inorganic Minerals
(Professor Gary Drobny)

Spencer J. Carey, Ph.D. Chemistry and Nanotechnology & Molecular Engineering
Energetics of Catalytic Intermediates on Nickel(111) by Calorimetry: Empirical Trends and Benchmarks for Quantum Theory
(Professor Charles Campbell)
Tyler J. Chozinski, Ph.D. Chemistry
Report on the Interrogation of Nanoscale Features in Complex Biological Systems
(Assistant Professor Joshua Vaughan)

Dane William deQuilettes, Ph.D. Chemistry and Nanotechnology
Probing Local Heterogeneity in the Optoelectronic Properties of Organic-Inorganic Perovskites Using Fluorescence Microscopy
(Professor David Ginger)

Thomas H. Edwards, Ph.D. Chemistry
New Statistical Inference Methods for DEER Spectroscopy on Proteins
(Associate Professor Stefan Stoll)

Sarah E. (Betsy) Flowers, Ph.D. Chemistry
Preparation, Characterization, and Reactivity of Ruthenium Protop N-Heterocyclic Carbone Complexes
(Associate Professor Brandi Cossairt)

Zachary W. Fox, Ph.D. Chemistry
Two-Dimensional Vibrational-Electronic Spectroscopy: The Design and Development of a Novel Multidimensional Spectroscopic Technique to Directly Measure Coherent Coupling Between Vibrational and Electronic Degrees of Freedom
(Professor Munira Khalil)

Christopher E. Freye, Ph.D. Chemistry
Development of Instrumental and Chemometric Techniques for the Analysis of Complex Samples via Multi-Dimensional Gas Chromatography
(Professor Robert Synovec)

Christopher G. Gunderson, Ph.D. Chemistry
New Tools for Studying Nanoscale Electrochemical Phenomena
(Professor Bo Zhang)

Kimberly H. Hartstein, Ph.D. Chemistry
Stabilizing Degenerate Dopants in Colloidal Semiconductor Nanocrystals
(Professor Daniel Gamelin)

Danielle A. Henckel, Ph.D. Chemistry
Photo- and Electrochemical Investigations of Solution Processable Molecules and Materials for the Hydrogen Evolution Reaction
(Associate Professor Brandi Cossairt)

Lauren J. Kang, Ph.D. Chemistry
Developing Gold- and Silver-Catalyzed Dehydrogenative Cross-Coupling Toward Donor-Acceptor Polymer Synthesis
(Professor Christine Luscombe, Materials Science & Engineering)

Nicholas P. Montoni, Ph.D. Chemistry
Plasmon Hybridization in Clusters of Metal Nanoparticles and Magnetic Nanoparticle Oligomers
(Associate Professor David Masiello)

Heidi D. Nelson, Ph.D. Chemistry
Defect-Related Luminescence in Nanocrystals: Spectroscopy and Computation
(Professor Daniel Gamelin)

Steven C. Quillin, Ph.D. Chemistry
(Associate Professor AJ Boydston)

Glennis E. Rayermann, Ph.D. Chemistry
Applications of Physical Chemistry in Solar Energy, Membrane Biophysics, and Cultural Heritage
(Professor Sarah Keller)
During the past decade, we have seen a remarkable transition in publicly funded higher education. A decade ago, gift-derived funds played a small role in our programs, funding the occasional student fellowship or lecture. A decade later, we and other public institutions of higher education are heavily reliant upon gift funds for support of our baseline program. Today, annual gifts and endowment-derived funds are critical to every aspect of our teaching and research. Students, faculty, and staff are the beneficiaries of your gifts.

The UW Department of Chemistry is extraordinarily fortunate to have literally thousands of friends and alumni, a large fraction of whom contribute generously to our programs. We are deeply indebted to the donors named here. With your help, we are providing state of the art education to the current generation of students. Thank you!

If you are among our chemistry or biochemistry alumni who have not yet given back to the Department of Chemistry, we hope you will reconsider that choice. Our ability to help the current generation of students to achieve their dreams depends upon your gift. Thank you in advance for thinking of our students.

If your name is missing or misspelled, we apologize and hope you will let us know.
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Ms. Katrina Freeburg
Prof. Ramesh & Mrs. Shanta Gangolli
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Dr. Lewis Johnson
Ms. Janice & Mr. Ellis Kahn
Dr. Masanori Kato
Dr. Christopher &
Ms. Shannon Kuyper
Dr. Gary & Ms. Marian Lappman
Dr. Lynn & Reverend Jeanne Larsen
Ms. Barbara & Mr. Gerald Laughlin
Dr. George & Ms. Jeanne LeClercq
Ms. Linda Leinric
Mr. Jameson & Ms. Leah Leong
Dr. Elizabeth Leovey
Dr. Yueh-Neu Lin
Dr. Wesley & Ms. Merrilynn Lingren
Drs. Jonathan & Helen Litz
Dr. Franklin Looney Jr.
Ms. Janet Lund
Mr. Yongtian Luo
Mrs. Sandra & Mr. John Matsen
Ms. Theresa & Mr. J. Douglas McLean
Dr. Gary Meents &
Ms. Michelle Reimemitter
Microsoft
Mr. Craig Mitchell
Drs. Ann & Alexander Motten
Dr. David Munch
Dr. Jeffrey & Ms. Melissa Nelson
Drs. Richard Norman & Anne True
Mr. Carl & Ms. Cynthia Oda
Dr. Warren & Ms. Susan Oldham Jr.
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Ms. Linda Paddock
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Drs. Lyle & Beate Peter
Drs. Ponn Rajagopal &
Natarajan Janaranthan
Dr. David Reichgott
Dr. Daniel Ritter
Mr. Timothy Rohr
Dr. Fujiang Ruan & Ms. Qinxiao Zhou
Dr. Mark & Ms. Jill Rueber
Mr. Bo Saxberg
Ms. Sheila Saxberg
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Drs. Paul & Beth Schomber
Dr. Siegfried & Ms. Siglind Schubert
Drs. Amanda & Parikhita Sinha
Dr. Sean & Ms. Becca Snyder
Profs. Carol Stael-Gammon &
Richard Gammon
Dr. Louis & Ms. Carolyn Torre
Ms. Dina & Dr. Gerhard Vincow
Dr. Mark & Ms. Katherine Voges
Dr. William & Ms. Margaret Wacholtz
Dr. John & Mrs. Rosana Warren
Mr. Grant Webster
Mr. Donald & Ms. Marilyn Whelde
Dr. Richard Wilde
Ms. Sophia Wilde (D)
Ms. Susan & Mr. Drew Williams
Dr. Jean Woller
Dr. Robert Woodley (D)
Mr. Arthur Yoshimura
Dr. Edward & Ms. Judy Zahnow
Prof. Bo Zhang

(D) deceased
Our faculty continues to win awards and recognition for their accomplishments. A complete list of awards is found on page 5, but I will mention some recent highlights here. Associate Professor Brandi Cossairt won the National Fresenius Award from Phi Lambda Upsilon for which she will be honored at a symposium at the spring ACS meeting. Assistant Professor Ashleigh Theberge won the Beckman Young Investigator award. Professor David Ginger and Affiliate Professor Sotiris Xantheas were named to the Washington State Academy of Sciences. Assistant Professor Alshakim Nelson received a CAREER award from the National Science Foundation. Affiliate Professor Karen Goldberg was elected to the National Academy of Sciences.

The good news above is accompanied by less positive developments in terms of funding provided by the State of Washington. The College of Arts & Sciences mandated a budget cut of 1.5% and has severely restricted faculty hiring. Increased student enrollment has partially mitigated this situation, but we continue to operate within a very lean budget environment.

As always, I close with thanks to all of our friends. We continue to rely on your generosity. Your donations provide a vital supplement to our state funding. Your gifts directly impact the quality of the instruction that we can offer to our students. Thank you for your support.

Sincerely,

D. Michael Heinekey
Professor and Chair