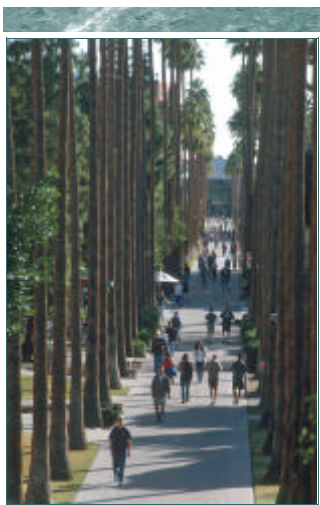


Newsletter



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SEVEN NEW FACULTY MEMBERS JOIN DEPARTMENT

By ROBERT E. BLANKENSHIP, CHAIR

This has been a year of major changes in the ASU Department of Chemistry and Biochemistry. Changes are happening in all areas, including faculty, buildings, facilities, programs and students.

Seven new faculty members have joined the department in academic year 2004–2005. These additions push our number of tenure-track faculty members to forty-two, the highest number ever for the department. Profiles of six of these new faculty members, Profs. Ariel Anbar (joint with Geological Sciences), John Chaput, Julian Chen (joint with School of Life Sciences), Pierre Herckes, Joe Wang (joint with Chemical and Materials Engineering) and Hao Yan, are given in this Newsletter. The seventh, Marcia Levitus, will join us in January 2005. We also welcome three new lecturers this year, Drs. Ron Briggs, Scott Lefler and Christine Schering. Profs. Jim Birk and Mike O’Keeffe and Mike Wheeler, our master glassblower, retired in June 2004.

Several of the new faculty members will be affiliated with the Biodesign Institute at ASU and will have their research laboratories located there. The first Biodesign building is now open and the second is well underway in construction. In addition, two Interdisciplinary Science and

Technology Buildings (ISTB) are currently under construction. We are adjusting to the new reality that the department will no longer be located in one contiguous complex, but will instead be spread out over the northeast corner of the ASU campus.

A new Nuclear Magnetic Resonance (NMR) facility, which will be located in ISTB II, will be a major addition to the instrumental capabilities of the department and the campus. Our current facility cannot accommodate high field NMR instruments due to height and stray field restrictions. The new facility will have space for several new NMR machines and ASU has committed to purchase a high field instrument to go in the facility. We are currently searching for a new faculty member who specializes in NMR. The new facility will open in the Spring of 2006.

In addition to the new NMR faculty member, we are searching this year for inorganic and chemical education faculty members, as well as a joint hire with Physics and Astronomy in biophysical theory. Our goal is to increase the size of the tenure-track faculty to fifty within the next few years.

This year we welcomed 26 new graduate students to the de-



partment, the largest class in several years. We are working hard to increase the size of our graduate program, both to do research with all the new faculty members and also to help us teach the ever-increasing number of undergraduates, both majors and students in our service courses. The number of undergraduate majors has doubled in the past five years to over 450, and we have initiated several new undergraduate programs to accommodate them. These include an emphasis in Medicinal Chemistry, an emphasis in Environmental Chemistry and a BA in Biochemistry to complement the existing BS in Biochemistry. The number of student credit hours taught in the department has increased by nearly thirty percent in the same period. It is a tremendous challenge to the faculty, staff and facilities to meet this sharply increased demand for our courses. Last year

See **Blankenship** page 8

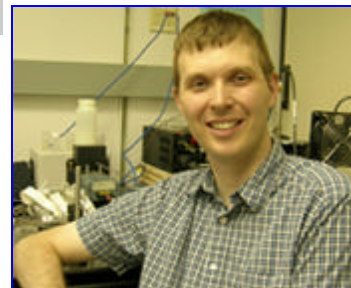
KARL BOOKSH WINS ELSEVIER CHEMOMETRICS AWARD

Dr. Karl S. Booksh, Associate Professor of Chemistry and Biochemistry, is the recipient of the 4th Elsevier Chemometrics Award. The award is presented every four years to a chemometrician younger than 40 years of age who has contributed significantly to the development of chemometrics in the last five years. This prestigious award was established to stimulate the careers of young scientists by recognizing noteworthy accomplishments in the field.

Dr. Booksh is the first scientist from North America to receive the award. Previous winners of the Elsevier Chemometrics Award were Dr. Rasmus Bro, Royal Veterinary and Agricultural University, Denmark (2000); Dr. Terje Vegard Karstang, Norsk Hydro, Porsgrunn, Norway (1996); and Dr. Lutgarde Buydens of the University of Nijmegen, Nijmegen, The Netherlands (1992). This year's award is split between Dr. Booksh and Dr. Anna de Juan Capdevila from the University

of Barcelona, Spain. The award was presented at the 2004 Chemometrics in Analytical Chemistry conference in Lisbon, Portugal.

Dr. Booksh joined ASU in 1996 as an Assistant Professor after two years as an NSF Postdoctoral Fellow at the University of South Carolina. He received his PhD from the University of Washington in 1994. Dr. Booksh is North American Editor of the *Journal of Chemometrics* and is on the



Karl Booksh

editorial advisory board of *Chemometrics and Intelligent Laboratory Systems* and *Talanta*. He has published over 60 scientific papers, mostly in the field of chemometrics and chemical sensor development.



From left: Andrew Kaldor (ExxonMobil), Dr. Austen Angell, Charles P. Casey (President of the ACS).

AUSTEN ANGELL RECEIVES HILDEBRAND AWARD

Regents' Professor Austen Angell was honored at the recent National Meeting of the American Chemical Society (ACS) with the Joel Henry Hildebrand Award in the Theoretical and Experimental Chemistry of Liquids.

This award is sponsored by ExxonMobil Research and Engineering Company and ExxonMobil Chemical Company. The Hildebrand award recognized Dr. Angell for pioneering ex-

perimental studies of supercooled and glassy water, and for introduction of seminal ideas of liquid fragility, liquid and vitreous polyamorphism, and non-aqueous electrolytes.

Andrew Kaldor, manager of Downstream Research at ExxonMobil Research and Engineering Company, presented the award at the spring meeting of the American Chemical Society in Anaheim, California.

PRESIDENT CROW HONORS IAN GOULD



Ian Gould

ASU President Michael Crow has named Dr. Ian Gould one of five "exemplars of the finest teacher-scholars at ASU." The five newly-tenured faculty

members are setting a standard of excellence for the entire university. They are rising stars whose talent and hard work are evident in everything they do. All have distinguished themselves in a short time as outstanding teachers and producers of high-quality research and service.

Dr. Gould joined the ASU Chemistry and Biochemistry Department in 1998 after spending 12 years at the research laboratories of Eastman Kodak, where he developed a worldwide reputation for his

research into the interaction of light and matter. His studies helped uncover the basic chemical principles underlying photography, photosynthetic solar energy harvesting, and other important processes.

"During his short time at ASU, Professor Gould has not only continued his work through research grants but has demonstrated exceptional prowess in undergraduate education," says Robert Blankenship, department chair, noting that Dr. Gould has won several teaching awards. "This ex-

tremely high level of achievement in both research and teaching is exceptional for one just beginning his academic career."

Dr. Gould also established a K-12 program mobilizing ASU chemistry students and local teachers to help children appreciate the wonders of nature and started an annual Arizona Undergraduate Research Symposium.

Because of his extraordinary achievements, he has been promoted from assistant to full professor.

SPOTLIGHT ON NEW FACULTY



Joseph Wang

Joseph Wang came to ASU from New Mexico State University (NMSU), where he was a Distinguished Professor of Chemistry and held a Regents Professorship and the Manasse Chair. At ASU, he has a joint appointment with Chemistry and Biochemistry and Chemical and Materials Engineering and is also affiliated with the Biodesign Institute.

Dr. Wang obtained his higher education at the Israel Institute of Technology, where he was awarded his DSc in

1978. From 1978 to 1980 he served as a research associate at the University of Wisconsin (Madison).

Dr. Wang's research interests include the development of microfluidic (lab-on-chip) biochip devices; nanomaterials-based sensors; enzyme electrodes; DNA and protein recognition and diagnostics; bioelectronics; nanobiotechnology; electrochemical sensing devices for environmental, security, and clinical monitoring; design of nanostructures; microfabrication and miniaturization; counterterrorism detection; development of new interfaces; sensor and recognition coatings; and remote sensing.

He has authored over 650 research papers, 6 books, 15 patents, and 25 chapters. Since 1980, 20 PhD candidates and 70 research associates have

studied with Professor Wang. He has presented more than 150 invited and plenary lectures in 30 countries.

Dr. Wang was ranked as the most cited electrochemist in the world in 1995, and at the 17th place in the ISI's list of Most Cited Researchers in Chemistry for the 1992–2002 period.

Dr. Wang is the recipient of many awards, honorary degrees, and citations from numerous organizations, schools, and societies: Heyrovsky Memorial Medal (of the Czech Republic); American Chemical Society Award; ISI Citation Laureate Award; Westhafer Award for Research (NMSU's highest academic award); an Honorary Professorship from National University, Cordoba,

Argentina; a Visiting Scientist Fellowship to PR China from the U.S. National Academy of Sciences; and the Young Faculty Award of the Society of Analytical Chemists of Pittsburgh.

Dr. Wang was ranked as the most cited electrochemist in the world in 1995, and at the 17th place in the ISI's list of Most Cited Researchers in Chemistry for the 1992–2002 period. In 2003, Dr. Wang's JACS article (*Stabilization of carbon nanotubes by Nafion toward the preparation of amperometric biosensors*) was the fifth most cited chemistry paper.

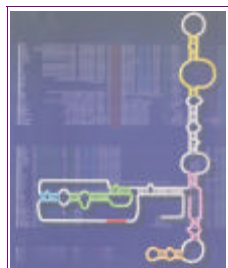
He is currently serving as the Chief Editor of the international journal *Electroanalysis* and has been a member of 12 other international journals.

JULIAN CHEN

Julian Chen came to ASU from Johns Hopkins University School of Medicine, where he was a postdoctoral fellow and research associate. He obtained his PhD degree from Indiana University, Department of Biology. At ASU, he has a joint appointment with the Department of Chemistry and Biochemistry and the School of Life Sciences.

Dr. Chen is interested in understanding the structure, function, and evolution of ribonucleoprotein (RNP) complexes in cells. His attention has been focused on the telomerase RNP enzyme, a unique reverse transcriptase essential

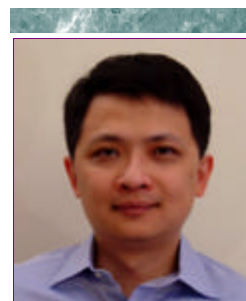
for maintaining telomere length in most eukaryotes. Telomeres act as caps at the ends of chromosomes, and are required for chromosome stability. Telom-



erase elongates telomere length by adding telomeric repeats to chromosome ends to counterbalance the natural shortening that occurs during DNA replication.

Because of its role in chromosome stability, telomerase regulation is a critical step in tumorigenesis and aging. To maintain chromosome stability and infinite growth, telomerase is activated in 90% of human tumors and immortalized cells such as stem cells and germ lines. Moreover, patients with dyskeratosis congenita, a disease of premature aging, carry a mutated telomerase gene. Elucidation of the molecular mechanism of telomerase function will have significant medical implications in human cancer and diseases.

The goals of his research have been to understand (1) how te-



Julian Chen

lomerase RNP is assembled and regulated in eukaryotic cells, (2) how different components of the complex participate in the regulation of telomerase function, and (3) how this RNP complex evolved in different eukaryotes. This research uses a variety of approaches involving biochemical and biophysical techniques, as well as molecular genetics and molecular biology.

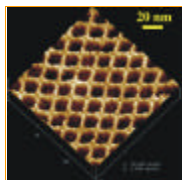
HAO YAN

Hao Yan joined the ASU Department of Chemistry and Biochemistry as well as the Biodesign Institute in Fall 2004 as an Assistant Professor. Dr. Yan received his PhD degree working with Nadrian Seeman at NYU and then held an appointment in the Computer Science Department at Duke University.

His research interests center on self-assembly of nanostructures, particularly using DNA as an assembly element. He would like to use this new technology to develop molecular motors, sensors, and templates for more complex nanostructural systems.

Dr. Yan's research program is highly interdisciplinary, and combines chemistry, biology, physics, and materials science.

The goal of his research is to achieve programmed design and assembly of biologically inspired nanomaterials and to explore its applications in nanoelectronics, controlled macromolecular interactions, and biosensing. His research has been focused on the following four themes:



(1) Bionanotechnology. Design novel DNA nanostructures and implement the designed structure in the construction of patterned DNA arrays and nanomechanical devices. Develop modular methods to achieve biomimetic molecular motors.

(2) Nanoelectronics. Utilize rationally designed DNA nanostructures to template nanoelectronic components such as nanoparticles or carbon nanotubes into functional nano-devices.

(3) Macromolecule structure elucidation. Develop methods to self-assemble 2D and 3D protein arrays for structural determination using electron microscopy or X-ray crystallography.

(4) Biomolecular imaging. Investigate protein-DNA interactions using high-resolution imaging technology such as atomic force microscopy and electron microscopy.

Major techniques used in the research include: DNA/



Hao Yan

RNA/protein manipulation (gel electrophoresis, labeling, hybridization, PCR and footprinting, cloning), electron-beam lithography, atomic force microscopy (AFM), scanning electron microscopy (SEM), transmission electron microscopy (TEM), electron microscopy (EM), fluorescence spectroscopy, UV-Vis, circular dichroism (CD), and chemical synthesis.



Pierre Herckes

Pierre Herckes came to ASU from Colorado State University, where he was a post-doctoral fellow and a research scientist. He obtained his PhD from Strasbourg University in France.

Dr. Herckes's research activities focus on atmospheric chemistry, mainly aqueous phase chemistry (clouds, fogs, and rain); atmospheric particulate matter; and particle droplet interactions. He is also in-

terested in the impact of particle and cloud chemistry on a local, regional (public health, visibility, deposition fluxes), and global scale (effects on Earth's radiative budget). His research relies largely on environmental analytical chemistry and involves field campaigns to collect samples and study processes *in situ*.

Specific research projects have included the characterization of aerosol, cloud, and fog composition. He has been especially interested in composition differences related to the droplet or particle size. The goal of these studies has been to investigate the processing of atmospheric particles and gases by clouds and fogs: What particles/gases are scavenged?

PIERRE HERCKES

What happens to them in the aqueous phase? What is the net impact of these processes on the atmospheric composition?

His research relies largely on environmental analytical chemistry and involves field campaigns to collect samples and study processes *in situ*.

In addition, he has studied the characterization of organic matter in the atmosphere. Usually, less than 20% of the carbonaceous material in atmospheric particles is known at a molecular level. He has worked on developing new

analytical techniques for these studies. In addition, his research has been characterizing bulk properties of organic matter, including size, polarity, and presence of functional groups in order to predict impact on aqueous phase chemistry and on physicochemical properties such as surface tension.

Dr. Herckes has also investigated atmospheric organic molecular marker stability. Little is known about the stability or atmospheric lifetimes of these molecules. Specifically, his research has focused on the degradation of these molecules in laboratory experiments under conditions simulating atmospheric droplets (haze, clouds, fogs).



Ariel Anbar

Ariel Anbar came to ASU from the University of Rochester, where he was an associate professor in the Department of Earth and Environmental Sciences and the Department of Chemistry. After obtaining his bachelor degree in 1989 from Harvard in geo-

logical sciences and chemistry, Dr. Anbar went on to earn his MS degree (1992) and PhD (1996) in geochemistry at the California Institute of Technology.

Dr. Anbar applies chemical concepts and analytical techniques, particularly those of isotope geochemistry, in an effort to understand the geological, chemical, and biological processes that shape the Earth's surface environment and to learn how these have changed through time. Such research teaches us about the habitability of the Earth, the history of the environment and life, the ef-

fects of life on the environment, and the prospects for life beyond Earth.

Dr. Anbar's group has been among the pioneers in using MC-ICP-MS.

Dr. Anbar's group has been among the pioneers in using multiple-collector inductively coupled plasma mass spectrometry (MC-ICP-MS) to precisely measure mass-dependent variations in the isotopic compositions of transition metals, particularly iron and molybde-

num. Variations of 0.01–0.1 %/amu, once undetectable, are actually ubiquitous. Such measurements in natural samples provide insights into the environmental chemistry of metals and the metal-centered interactions between organisms and their surroundings. Applied to the geological record, such “metal stable isotope” studies provide information about metal biogeochemical cycles on the ancient Earth, environmental changes that perturbed these cycles, and biological activity in the distant past.

JOHN CHAPUT

John Chaput joined ASU this fall as Assistant Professor of Chemistry and Biochemistry at the Biodesign Institute. Dr. Chaput received his PhD from the University of California, Riverside in 2000 and then did postdoctoral work at Harvard Medical School and Howard Hughes Medical Institute.

His research is focused on the structure and function of natural and nonnatural biopolymer systems capable of undergoing Darwinian evolution. This involves an interdisciplinary approach to chemical biology that combines traditional synthetic organic chemistry and molecular biology with genetics, proteomics, and materials science. Specific projects in his laboratory include the following:

(1) *De novo* evolution of new protein folds. His laboratory recently isolated a new

family of ATP-binding proteins from an unconstrained random sequence library of six trillion unique protein sequences. The three-dimensional structure for one of these proteins was found to adopt a novel alpha/beta-fold not seen before in biology. Given this exciting new result, his laboratory is now poised to

His research involves an interdisciplinary approach to chemical biology that combines traditional synthetic organic chemistry and molecular biology with genetics, proteomics, and materials science.

select a number of other functionally active proteins from unconstrained libraries. By determining the three-dimensional structure of these proteins, the researchers will begin to understand the extent

to which nature samples the total structural diversity available in protein sequence space.

(2) Mapping evolutionary networks of *de novo* selected proteins. Preliminary experiments reveal that changing the specificity of an ATP-binding protein is not a trivial problem. Electrostatic and hydrophobic differences between protein-binding pockets designed for ATP functionality are incompatible with other substrates. For this reason, the researchers would like to use their ATP-binding protein as a model for exploring the mechanism by which nature redefines ligand-binding specificity.

(3) Evolution of TNA oligonucleotides. Threose nucleic acid (TNA) is a four-carbon sugar analog of RNA. Despite having a repeat backbone unit one atom shorter

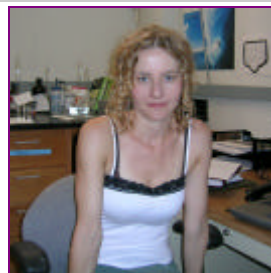


John Chaput

than DNA or RNA, TNA remains capable of Watson-Crick base-pairing with complementary DNA, RNA, and TNA. This intersystem base-pairing, coupled with the chemical simplicity of threose, suggests that TNA may be a candidate evolutionary progenitor of RNA. For this reason, he is interested in determining: (i) the biophysical properties of TNA relative to RNA; (ii) if TNA aptamers and enzymes can be selected from random sequence libraries; and (iii) how well the functional properties of TNA compare with RNA.

GRADUATE STUDENT COUNCIL GARNERS SUCCESSSES, EXPANDS ACTIVITIES

By ZOFIA WOSINSKA



Zofia Wosinska,
2004/2005 CGSC president

The Chemistry Graduate Student Council (CGSC) was formed in 2001 as a means of improving the graduate student experience. Never heard of it? Many of you will have seen us in action. Starting with organizing the prospective student visitation weekend, through preparing the famous Halloween picnic, to keeping all the graduates updated on what's new via email.

This year has been an exciting one for our organization, as our role of being the voice of the graduate students has expanded considerably. For the first time, we have appointed graduate student representatives to four depart-

mental committees, which previously were solely composed of faculty members. These include the graduate programs committee, the graduate recruitment committee, the advisory and planning committee, and the seminar committee, which is in charge of inviting speakers to our weekly afternoon seminars.

In addition to these committee activities, the graduate students are increasingly involved in other aspects of department life. A number of students join our monthly afternoon meetings to not only socialize, but to discuss departmental issues. We were pleased to receive extensive student feedback related to the proposal to change the cumulative examinations that all PhD students must take. In such ways, CGSC continually strives to be a liaison for the students in matters that may affect the program as a whole.

What else is new this year? To provide funds to organize student council lunches, the departmental picnics, the "meet the new graduates" party etc., the CGSC has

until now relied solely on lab coat sales. This semester we also started to sell molecular model kits for the undergraduate organic course, and a successful endeavor it certainly was! We are now better off financially than we have ever been in the past, meaning we can offer more to our graduates. We are continually looking for new ways to help improve the quality of graduate student life using our new funding source. Some fun suggestions that have been made so far range from organizing an "educational" field trip, to purchasing a ping-pong table to help clear the students' minds during their lunch breaks.

In the brief yet eventful history of CGSC, the council continues to enrich the social interaction in the department and allow the students to become involved in the ongoing growth and development of the program. Our hope is that the graduate students not only enjoy their time at ASU, but that they also have the means to leave their mark and possibly even help to improve the program for those to come in the future.

DOCTOR OF PHILOSOPHY 2003–2004

Timothy Cuthbertson, *Rational Design and Synthesis of Anticancer Compounds*, Seth Rose, Spring 2004

Zivile Katiliene, *Investigations of Energy Trapping in Photosynthesis and of DNA Looping by Endonuclease*, Neal W. Woodbury, Spring 2004

Vanessa Lancaster, *Study of the Antioxidant Proteins in the Thermophilic Photosynthetic Bacterium Chloroflexus Aurantiacus*, Robert E. Blankenship, Fall 2003

Bryan R. Moser, *Synthesis of Combretastatin A-2 Prodrugs and Cephalostatin 1 Structural Modifications*, George R. Pettit, Spring 2004

Jason R. Raymond, *Genomic Analysis of Photosynthetic Bacteria and*

the Natural History of Nitrogen Fixation, Robert E. Blankenship, Fall 2003

Cole Jordan Ritter, III, *I. Synthesis of Main Group C-N Materials in the Li-Be-B-Mg-Al System. II. Synthesis and Applications of Group III-IV Hydrides*, John Kouvetakis, Fall 2003

Alex W. Smith, *The Crystal Structure of Phenoxazinone Synthase Produced by Streptomyces Antibioticus and the Crystallization and X-ray Analysis of the Binary Toxin Produced by Bacillus Sphaericus*, James P. Allen, Spring 2004

Levi W. Torrison, *Silicon Based Nanostructures and Dielectrics*, John Kouvetakis, Fall 2003

MASTER OF SCIENCE 2004

Erika Ann Canonico, Chemistry, Spring 2004

Shikha Gupta, Chemistry, Spring 2004

Hung Hoang, Chemistry, Spring 2004

Todd Windman, Chemistry, Spring 2004

BACHELOR OF ARTS AND SCIENCE 2003–2004

Spencer Anderson, BS, Biochemistry, Honors Thesis, Spring 2004

Laura E. Aucoin, BS, Chemistry, Spring 2004

Kanika Kem Bernard, BS, Biochemistry, Spring 2004

Andrew Patrick Boughton, BS, Chemistry, Spring 2004

Sara Suzanne Bowers, BA, Chemistry, Fall 2003

Brooke Erica Busche, BS, Biochemistry, Spring 2004

Marcus Andrew Castle, BS, Biochemistry, Spring 2004

Craig Coe Chaillie, BS, Biochemistry, Fall 2003

Heidi N. Chikos, BA, Chemistry, Fall 2003

Jeanine Margaret Cordova, BS, Biochemistry, Spring 2004

Erwin Bondoc Cruz, BS, Chemistry, Spring 2004

Libby Czajkowski, BS, Biochemistry, Spring 2004

Michael John Davidson, BA, Chemistry, Spring 2004

Russell Patrick Davis, BS, Biochemistry, Spring 2004

Rebecca J. Dowler, BS, Biochemistry, Spring 2004

Jaime Catherine Easchief, BA, Chemistry, Fall 2003

Amanda Beth Gallegos, BS, Chemistry, Honors Thesis, Spring 2004

Ruben Luis Greth Cervantes, BA, Chemistry, Fall 2003

Heather Aron Gross, BA, Chemistry, Honors College, Fall 2003

Julie Ann Hall, BS, Biochemistry, Spring 2004

Benjamin J. Harvey, BS, Biochemistry, Spring 2004

Peter A. Hinrichs, BA, Chemistry, Fall 2003

Albert Hyun Hong, BS, Chemistry, Spring 2004

Stephen Howell, BS, Biochemistry, Honors Thesis, Spring 2004

Michael Paul Kocher, BS, Chemistry, Spring 2004

Scott Douglas Koster, BS, Chemistry, Fall 2003

Rebekah Rina Kramer, BA, Chemistry, Fall 2003

Michael Charles Kushner, BS, Biochemistry, Spring 2004

Sonia Mata, BA, Chemistry, Spring 2004

Thomas Myers, Jr., BS, Biochemistry, Spring 2004

Lynda Ngo, BA, Chemistry, Honors Thesis, Spring 2004

Grant Parris, BS, Biochemistry, Spring 2004

Marlene Elizabeth Phail, BS, Biochemistry, Fall 2003

Ryan Patrick Quinn, BS, Biochemistry, Fall 2003

Shaun Edward Russell, BS, Biochemistry, Fall 2003

Karen Elizabeth Smith, BS, Chemistry, Spring 2004

Steven John Sosa, BS, Biochemistry, Spring 2004

Clayton J. Squire, BS, Biochemistry, Spring 2004

Valerie Vogel-Scheidt, BS, Biochemistry, Spring 2004

Andrew Walker, BS, Biochemistry, Spring 2004

PROFESSIONAL ORGANIZATIONS HONOR FACULTY

ROBERT BLANKENSHIP



Professor Robert Blankenship has been elected a Fellow of the American Association for the Advancement of Science (AAAS).

Each year the Council elects members whose "efforts on behalf of the advance-

ment of science or its applications are scientifically or socially distinguished." Dr. Blankenship is honored for distinguished contributions to understanding photosynthesis, including studies on antenna processes, primary photochemistry in reaction centers, and the origin and evolution of the process.

DEVENS GUST



Foundation Professor Devens Gust has received the 2004 I-APS Awards in Photochemistry from the Inter-American Photochemical Society. The Inter-American Photo-

chemical Society Award in Photochemistry was established in 1988 to recognize outstanding contributions by members of the Society to the advancement of the photochemical and photo-physical sciences.

THOMAS MOORE



Professor Thomas Moore is the recipient of the International "Blaise Pascal" Research Chair 2004.

The Blaise Pascal Research Chairs were established in 1996 by the State and the Ile-de-France region. Each chair allows highly qualified, internationally acclaimed, foreign research scientists in all disciplines, accompanied if they wish by other research workers, to continue their work on a scientific project for a 12-month period that could be spread over two years in a higher learning institution or research institution in Paris/Ile-de-France.

Arizona State University
PO Box 871604
Tempe, AZ 85287-1604

WE ARE ON THE WEB!
CHEMISTRY @ASU.EDU

2004 CHEMISTRY AND BIOCHEMISTRY ANNUAL AWARDS

Bateman Scholarship.....Nicholas Stadie
CRC Freshmen Chemistry Achievement Award...James Cronican
SAACS Society Organic Achievement Award...Brittney Willer
Alpha Chi Sigma Merit Award.....Nam Chan
ACS Analytical Chemistry Award.....Amanda Gallegos
Therald Moeller Award.....Zachary Erno
Merit Award.....Angela Herro
Merck Index Award.....Michael Kushner
Alumni Award..... Spencer Anderson
Eyring Award.....Brooke Brelsford
Biochemistry Award.....Rebecca Dowler
Hypercube Award.....Jennifer Johnson
Arizona Power Authority Scholarship..Marc-Gregory Warhola
Dean's Circle Scholarship.....Shadi Refaeilzadeh

John Kacoyannakis (KOKO) Scholarship.....Michele Pysker
Academic/Service Professional Outstanding Achievement Award for the Year 2003.....Daniel Brune

Outstanding Graduate Research Assistant Award

Charlotte Bonneau	Martha Medina
Jean-Francois Masson	Rodrigo Palacios
Jason Raymond	

Distinguished Teaching Assistant Award

Federica Bogani	Michael Kushner
Angeline Heil	Andrea Levitt
Jason Houtchens	Thomas Wilson

Certificate in Recognition for Excellence as a Teaching Assistant

Brooke Brelsford	Angela Herro
Brandon Doss	Elise Herro
Stacy Frederick	W. Lee Richardson

BLANKENSHIP... continued

we instituted evening classes for the first time to help meet the demand. These evening classes have proved to be extremely popular with both the students and faculty and we plan to expand the evening program next year.

As usual, we welcome news from you for our next newsletter, whether it be a new job, a new baby or your retirement. We have also instituted an alumni section of the departmental website <http://chemistry.asu.edu/> and will also post news items there. We will greatly appreciate any tax-deductible financial contributions that you make to the department, and have enclosed an envelope for that purpose. We thank you in advance for your loyalty and support as we enter the next phase of our development as a department.

WE WOULD LIKE TO HEAR FROM YOU

The Department would like to hear from you and find out about your activities and accomplishments since leaving ASU. We would like to include your comments in one of our future newsletters.

Please email your comments to chemnews@asu.edu. You can also include your comments on the inside of the attached envelope.

FROM THE MAILBAG

Dr. Joseph Harris, former distinguished faculty member, has become an accomplished poet now that he is retired. Last year, he read his poetry and presented papers at an International Conference in Thailand. We plan to publish some of his poems in a future issue.



Mike Wheeler

MIKE WHEELER RETIRES

On June 30, 2004, Mike Wheeler retired from the Department of Chemistry and Biochemistry as a scientific glassblower in the Glass Shop. Mike began as the only scientific glassblower for the department at the young age of 24. During the past 30 years, Mike had enhanced the facility tremendously with his knowledge, commitment, and generosity. Mike's festive Retirement Party was held on June 30, 2004 in the Physical Sciences building.



Mike Wheeler, Tom Groy, Ron Nieman, and Mary Rushton enjoy the festivities.