



*Paul Weiss (L) and
Executive Vice
Chancellor Scott Waugh*



*Dr. Paul Weiss is also the
New Director of the
California NanoSystems
Institute*

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FALL 2009
VOLUME 30 - NUMBER 1

Distinguished Nanoscientist Dr. Paul Weiss Joins UCLA

Leading nanoscientist Paul S. Weiss has joined the UCLA Chemistry & Biochemistry Faculty as a member of the Physical Chemistry Division. Paul has also been named director of the California NanoSystems Institute at UCLA and holder of the Fred Kavli Chair in Nanosystems Sciences.

Weiss comes to UCLA from Pennsylvania State University, where he was Distinguished Professor of Chemistry and Physics. His multidisciplinary research group includes chemists, physicists, biologists, materials scientists, electrical and mechanical engineers, and computer scientists.

“Paul Weiss is an internationally renowned scientist, and we are fortunate that he is bringing his extraordinary talent and expertise to UCLA,” said UCLA Chancellor Gene Block. “His experience with such a wide array of disciplines makes him the right leader for CNSI, where research involves more than 25 academic departments.”

Weiss and his research group focus on the atomic-scale chemical, physical, optical, mechanical and electronic properties of surfaces and supramolecular assemblies. He and his students

have pioneered the development of new techniques to expand the applicability and chemical specificity of scanning probe microscopies and have applied these and other tools to the study of catalysis, self- and directed assembly, physical models of biological systems, and molecular and nanoscale electronics. They work to advance nanofabrication down to ever-smaller scales and greater chemical specificity in order to connect, operate and test molecular devices.

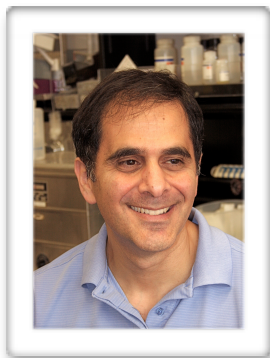
“Professor Weiss is a groundbreaking scientist, and we look forward to the key contributions that he and his wife, Professor Anne Andrews, will make to research and education here,” said

Joseph A. Rudnick, dean of the UCLA Division of Physical Sciences. “Our community will be significantly richer for having them join the UCLA faculty.”

“The faculty in the department of chemistry and biochemistry are thrilled to have Paul Weiss join us as a member of our physical chemistry division,” said Albert Courey, professor and chair of the UCLA Department of Chemistry and Biochemistry. (continued, p. 14)

“Professor Weiss is a groundbreaking scientist, and we look forward to the key contributions that he and his wife...will make to research and education here.”

CHAIR'S MESSAGE



To paraphrase the great American patriot Thomas Paine: “*These are the times that try [an academic’s] soul...*” Our governor and our state legislature have, in their great wisdom, decided that the best way to save tax dollars is to short change our children and the future of the state of California by cutting support to education at all levels from preschool up through the University of California system. As a result, the department has been forced to cut

essential staff reducing the level of research and teaching support that we are able to provide our world-class faculty. The budget for lecturers and teaching assistants has also been severely cut, threatening our ability to mount the course offerings we need to accommodate the ever-increasing numbers of undergraduate students hoping to learn chemistry and biochemistry. Moreover, the budget cuts have forced the closure, slated for next summer, of the Science and Engineering/Chemistry library in Young Hall. Materials will be transferred to the on-campus storage facility and/or moved to the three remaining sciences libraries on campus. Our students will be further impacted if the recommendations for UC fee increases are approved by the UC Regents.

Lastly, most faculty and staff have been required to take unpaid furlough days resulting in reductions in income ranging from 4 to 10% of pay. (I note however that the faculty are committed to doing everything possible to minimize the effect of these pay cuts on the value of a UCLA education and therefore we will not be taking furloughs on days that we are scheduled to deliver instruction or meet with students.) In addition to adversely affecting the household budgets of our hard working faculty and staff, these pay cuts adversely affect morale making it even more of a challenge to recruit and retain the best scientists and educators that the nation has to offer.

To quote Thomas Paine further: “*...yet we have this consolation with us, that the harder the conflict, the more glorious the triumph. What we obtain too cheap, we esteem too lightly....*” In other words, the triumphs that I report to you below are all the sweeter because of the adversity we have had to face while achieving them.

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Faculty Awards

As detailed on p. 3-5, a number of our faculty members have been honored for their accomplishments in teaching and research since the spring 2009 issue of the newsletter. For example, three of our faculty, Ken Houk, Herb Kaesz, and Joan Valentine have been honored by the American Chemical Society, while four of our faculty, Steven Clarke, Robin Garrell, Laurence Lavelle, and Yung-Ya Lin, have received university-wide prizes from the UCLA Academic Senate. Finally, three of our faculty have recently been inducted into some of the world’s top scientific societies, including Juli Feigon, who was elected to the National Academy of Sciences, Bill Gelbart, who was elected to the American Academy of Arts and Sciences, and Jim Gimzewski, who was elected a Fellow of the Royal Society.

New Faculty

I am also happy to report the addition this summer of three marvelous new faculty members to our ranks: Anastassia Alexandrova, Jorge Torres, and Paul Weiss. Their recruitment is

the culmination of a very successful four-year hiring campaign that has seen the addition of ten superb scholars to our faculty. We are delighted to have these

outstanding scientists on board. We recruited them just in time as the current budget realities may make it difficult to hire any additional faculty in the near future. *(Please see page 6 for more information regarding our new faculty)*

Endowed Chairs

At times such as these, the support of our friends and alumni is more important than ever for the future of this department, and thanks to the generosity of some of our supporters we have been able to confer endowed chairs on five of our faculty this academic year. Ken Houk has been appointed to the Saul Winstein Chair in Organic Chemistry, Shimon Weiss to the Dean M. Willard Chair in Chemistry, Omar Yaghi to the Irving and Jean Stone Chair in Physical Sciences, and Jorge Torres to the John McTague Career Development Chair in Chemistry and Biochemistry. Last, but not least, David Eisenberg has been appointed the very first holder of the Paul D. Boyer Professorship in Molecular Biology and Biochemistry. This newly created *(continued on top of next page)*

CHAIR'S MESSAGE/AWARDS

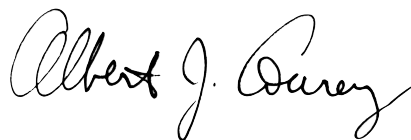
professorship, named in honor of the most recent of the three Nobel laureates in the history of our department's faculty, was made possible by the munificence of James B. and Joan Peter.

Past and Future Events

This past June, I had the pleasurable duty of officiating over the department commencement ceremony during which we conferred 39 doctoral degrees, three masters degrees, and 200 Bachelors degrees. We were honored by the presence of a number of generous friends of the department including Philip Gabriel and Hillel Fierer who was accompanied by his daughter Robin and his son Gary.

On November 14, I will have the honor of presiding over the 23rd annual Glenn T. Seaborg Symposium and Medal Award Dinner. This year's award winner is Mostafa El-Sayed, a professor emeritus of our department and the Julius Brown Chair and Regents Professor of Chemistry and Biochemistry at the Georgia Institute of Technology. Professor El-Sayed, a member of the National Academy of Sciences and U.S. National Medal of Science laureate, has long been recognized for his pioneering research in molecular photophysics and nanoscience. The theme of the Symposium will be *Advanced Materials and Nano-Technology*. Professor El-Sayed joins a select group of Seaborg medalists that includes many Nobel Prize winners (Glenn Seaborg, Bruce Merrifield, Donald Cram, Richard Smalley, and Paul Boyer), as well as entrepreneurs and science policy leaders who have distinguished themselves in the business and government arenas (for example, George Rathmann, John McTague, and James Peter). Sponsors of this year's event include Amgen, Inc., Bristol-Myers Squibb, Bruker BioSpin, Clarity Therapeutics and FEI Company.

You are all strongly encouraged to attend the Seaborg event. Information about registering and/or sponsoring the symposium and medal award dinner can be found elsewhere in this newsletter. I look forward to seeing you there!



FALL 2009 NEWSLETTER FACULTY, STAFF & CONTRIBUTORS
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National Academy of Sciences

Professor [Juli Feigon](#) has been elected to the prestigious National Academy of Sciences, in recognition of her distinguished and continuing achievements in original research. The election was held on April 28, 2009 during the 146th annual meeting of the academy.



Bill Gelbart and Juli Feigon were celebrated by the department for their achievements on May 18, 2009.

Academy of Arts & Sciences

[Bill Gelbart](#) has been elected as a Fellow of the American Academy of Arts & Sciences. Professor Gelbart is one of six UCLA professors among 210 distinguished scholars, scientists, writers, artists, and corporate and philanthropic leaders elected to the American Academy of Arts and Sciences this year, in recognition of their "preeminent contributions to their disciplines and to society at large."



AMERICAN ACADEMY
OF ARTS & SCIENCES

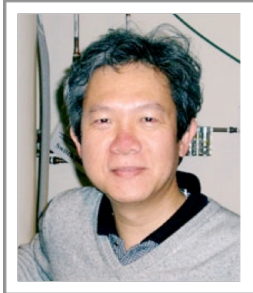
107th Faculty Research Lecturer

[Steven Clarke](#) has been named the 107th Faculty Research Lecturer in 2009-2010 by the UCLA Academic Senate. The announcement was made at the Legislative Assembly meeting in June 2009.

Royal Society of Chemistry

[James K. Gimzewski](#), UCLA Distinguished Professor of Chemistry & Biochemistry, was elected on May 18, 2009 as a fellow of Britain's prestigious Royal Society in recognition of his scientific excellence.

AWARDS



Yung-Ya Lin

The Art of Teaching

[Yung-Ya Lin](#), professor of physical chemistry, has won this year's Eby Award for the Art of Teaching. Professor Lin is one of only six campus-wide Senate faculty recipients of the 2009 Distinguished Teaching Award. He was presented with the award at the Annual Night to Honor Teaching on October 22nd, 2009 at

the James West Center.

In evaluating Associate Professor Lin's courses, many students remark that "he appears to have stayed up all night to personally grade their exams so that he can return them in time for [the] most effective follow-up," recounted his colleague in the chemistry and biochemistry department, Professor William Gelbart. "Even after getting no sleep — he delivers the next morning a lecture as original and vigorous as ever. ... So it's not surprising that when his classes also notice, for example, that his trusty sweater is worn or torn, they spontaneously make a gift of a new one to him."

"The students invariably see Yung-Ya as a teacher who is deeply devoted to helping them," Gelbart said. "They are deeply touched by the fact that, no matter how hard they are being asked to work, ... their professor is working harder and longer."

"He cares about students very much," one student wrote anonymously on an evaluation form. "He knows every student's progress by heart. He is the BEST teacher I have ever had in my life."

UCLA Distinguished Teaching Award



Laurence Lavelle

UCLA has over 4000 teaching faculty and [Laurence Lavelle](#) is one of three non-Senate faculty to receive UCLA's highest teaching award for 2009.

This Fall, Laurence will receive his Distinguished Teaching Award which represents the highest attainment of academic and professional excellence at UCLA.

This is a great honor and brings further recognition to our Department's commitment to and effectiveness in teaching and education.

Students describe Laurence's classes as rigorous and hard work yet they are extremely popular with over 2200 enrolled students per year. Laurence is unique in his ability to communicate effectively to large lecture audiences which his students and

teaching assistants describe as enjoyable, insightful, and focused. We are fortunate to have Laurence as one of our own and thank him for his 12 years of dedication to teaching and education at UCLA. He was presented with the award at the Annual Night to Honor Teaching on October 22nd, 2009, at the James West Center.

Laurence Lavelle's interview can be viewed at www.chem.ucla.edu/dept/Faculty/lavelle/UCLAInterviewUnedited2009.wmv

ACS Fellows

The American Chemical Society has just instituted a new honor, ACS Fellows, who "share a common set of accomplishment, namely true excellence in their contributions to the chemical enterprise coupled with distinctive service to ACS or the broader world of chemistry". The 162 members of the first class include eight with connections to UCLA: Debbie C. Crans, BS'78 (Copenhagen), PhD'85 (Harvard), postdoc '86 (Boyer and Chapman), professor of chemistry, Colorado State; Mostafa A. El-Sayed, professor emeritus, now at Georgia Tech; Jacqueline Gervay-Hague, BS'85, PhD'90 (Jung), professor of chemistry, UC Davis; John A. Gladysz, a former faculty member, now at Texas A. and M.; M. Frederick Hawthorne, professor emeritus, now at the University of Missouri; Kendall N. Houk, professor of organic chemistry; Herbert D. Kaesz, professor emeritus of inorganic chemistry; C. Dale Poulter, BS'64 (Louisiana State), PhD (UC Berkeley), postdoc '68 (Winstein), now professor of bioorganic chemistry at the University of Utah and recently elected to the National Academy of Sciences; William R. Roush, BS'83 (UCLA), PhD'87 (Harvard), professor of chemistry, Scripps Research Institute, Florida; and David C. Spellmeyer, BS'83 (Purdue), PhD'87 (Houk), CTO and CIO of Nodality, Inc., a biotechnology company in Oakland.



Emeritus Professor of the Year

UCLA Chemistry & Biochemistry Professor Robert L. Scott has been named the Emeritus Professor of the Year. He served with distinction as President and Treasurer of the Emeriti Association and has been recognized as well for his wise and informed counsel.

ACS Division of Organic Chemistry Fellowship

Joann Um, graduate student in Ken Houk's lab, has been selected to receive an ACS Division of Organic Chemistry Graduate Fellowship sponsored by Novartis. This fellowship, in the amount of \$26,000, is for the 2009-2010 academic year.

AWARDS

Robin Garrell wins Gold Shield Faculty Prize

Robin L. Garrell, professor of organic chemistry, has won the 2009 Gold Shield Faculty Prize, sponsored by Gold Shield Alumnae of UCLA. The Gold Shield Prize is presented bi-annually to a mid-career faculty member who has demonstrated extraordinary quality in teaching and in research or creative activity, together with a significant level of public service within the university.

The prize was given to Professor Garrell on June 11, 2009, at the Academic Senate's Legislative Assembly meeting. Chancellor Gene Block presented the Gold Shield Faculty Prize plaque, giving a brief account of her impressive research in polymer chemistry, her active role in the chemistry community, and her ability to encourage students.



Chancellor Gene Block, Robin L. Garrell, and Kendall Houk

2009 Christian B. Anfinsen Award

Wayne Hubble, Professor of Biochemistry and Jules Stein Professor of Ophthalmology has won The Christian B. Anfinsen Award, sponsored by The Aviv Family Foundation. The award recognizes significant technical achievements in the field of protein science. The 2009 award was presented to Professor Hubbell on July 25, 2009 for his development, application and advocacy of site-directed spin labeling of proteins. Over the last decade, site-directed spin labeling (SDSL) has developed into a widely utilized and well accepted technique that is routinely applied to both soluble and membrane associated proteins. It provides information that cannot be obtained using other techniques, and it can readily be applied to protein systems that are at best extremely challenging for other spectroscopic or molecular tools. SDSL involves the incorporation of one or two nitroxide labels at specific sites in a protein using a combination of cysteine mutagenesis and chemical derivitization. Combining specific placement of nitroxide spin labels and characterization of the environment of the probe by electron paramagnetic resonance (EPR) has become a powerful tool for the study of structure, conformational changes and dynamics of proteins, particularly those embedded in



Wayne Hubbell presented with the Anfinsen Award by the Protein Society's President Elect Arthur Palmer III

membranes. As a result of Dr. Hubbell's efforts, the community of scientists who use SDSL has rapidly grown, and this field has made significant contributions to protein science.



*Seated: Carole Linster, Philip Liu, Paul Ha-Yeon Cheong, Roberto Ferrari, Hongtao Liu, Mijeong Kang, and Brandon Davies
Standing: Stephen Hitchcock (Amgen), Steven Clarke, John Adams, Kendall Houk, Siavash Kurdistani, Chentao Lin, Juli Feigon, Stephen Young, James Peter (Specialty Labs), and Paul Boyer*

Postdoctoral Recognition Awards

The 11th Annual MBI/Chemistry & Biochemistry Postdoctoral Recognition Awards Ceremony took place on May 6, 2009. Dr. Paul Boyer donated a portion of his 1997 Nobel Prize in Chemistry to institute these annual awards to recognize our outstanding postdoctoral fellows. This year's ceremony was attended by donors (Stephen Hitchcock, James Peter, and Paul Boyer) as well as mentors, colleagues, family, and friends.

Each postdoctoral scholar received a Research Excellence Award. In addition, three named awards were given to Paul Ha-Yeon Cheong (amgen Award), Hongtao Liu (Parvin Award), and Roberto Ferrari (Boyer-Peter Award).

The 2009 Recipients (seated are pictured with their respective mentors (standing behind).

ENDOWED CHAIRS/NEW FACULTY

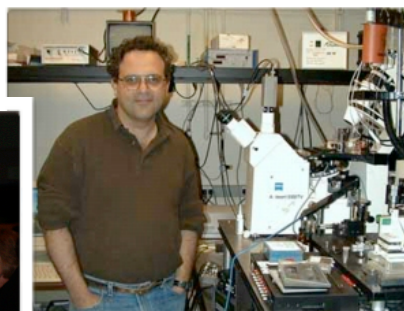
UCLA's Appoints Four of World's Leading Chemistry Scholars to Endowed Chairs

Four internationally renowned chemists have been appointed to prestigious endowed chairs by Chancellor Gene Block. [Kendall Houk](#) succeeds Fraser Stoddart and 1987 Nobel Laureate Donald Cram as the third holder of UCLA's Saul Winstein Chair in Organic Chemistry; [Omar M. Yaghi](#) has been appointed to UCLA's Irving and Jean Stone Chair II, [Shimon Weiss](#) to the Dean M. Willard Chair in Chemistry, and [David Eisenberg](#) has been appointed to the Paul D. Boyer Professorship in Molecular Biology and Biochemistry.

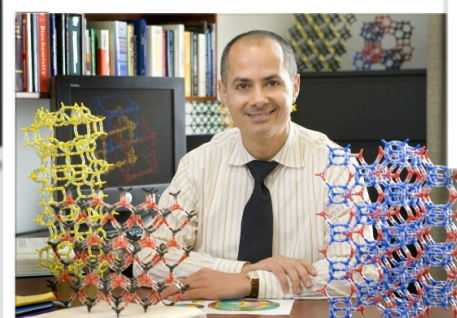
Expanded stories of the chairs can be found by searching "Three Chairs" at www.newsroom.ucla.edu



David Eisenberg



Shimon Weiss



Omar Yaghi

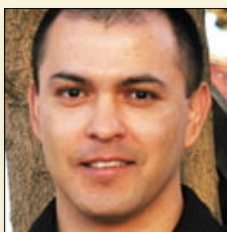
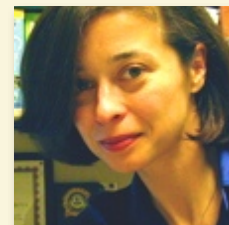


Kendall Houk

Welcoming New Faculty

[Anastassia Alexandrova](#)

is a theoretical physical chemist who uses the methods of quantum mechanics to predict and explain the mechanisms of reactions in organic chemistry and biochemistry. She has applied these approaches to the design and evaluation of artificial enzymes and has had multiple notable successes in predicting catalytic activity.



[Jorge Torres](#)

is a biochemist who studies the structure and function of a molecular machine called the mitotic spindle. This amazing apparatus is responsible for the orderly segregation of chromosomes from a mother cell to its daughters during mitosis. Defects in this machine are often associated with cancer and many of the interactions that Jorge is characterizing are likely to be targets for anticancer therapy.

[Paul Weiss](#)

is an experimental physical chemist whose research is broadly centered on the idea of understanding intermolecular interactions and then using this understanding to direct assembly and test ideas of nanoscale function. Further details can be found in the cover story about Paul Weiss, who will also assume Directorship of UCLA's California NanoSystems Institute.



HAPPENINGS/GIVING OPPORTUNITIES

Chemistry Faculty in the Media

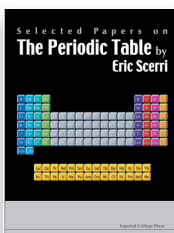
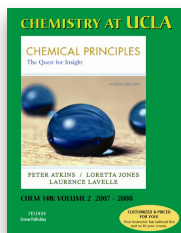
Jim Gimzewski, professor of physical chemistry, was a guest on the National Public Radio's *Science Friday* back on September 4, 2009. If you wish to listen to the podcast, please visit www.sciencefriday.com/program/archives/200909046



Last August, Ken Houk, professor of organic chemistry, was interviewed by ACS for a series called *Eminent Organic Chemists: The Human Side*. You can view the interviews online by visiting www.layingthegroundwork.com/chemists/

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Books by Faculty

Laurence Lavelle has coauthored *Chemical Principles, 4th. Ed., Customized Volume 2* (left).

Eric Scerri's third book, *Selected Papers on the Periodic Table* (right) was published by Imperial College Press in London.

Supporting our Seminar Series

Your help is needed to support our world-renown departmental seminar series! Each division has an outstanding seminar program. Lecturers from all over the globe visit the department and disclose their cutting-edge research. Students, post-docs, and faculty have the opportunity to meet and exchange ideas with famous academic and industrial researchers. This is not only crucial to their education, but also to their future careers, as the seminar series allow them to make vital contacts.

Your funds will support these exciting and critical lectures, allowing the Chemistry and Biochemistry Department to maintain its competitive edge and reputation for academic excellence. A typical lecture from an outside speaker costs the department approximately \$1,000. We have 10 lectures per quarter in each division. Your gift, however large or modest, is greatly appreciated.

To make your contribution, just check the appropriate box in the enclosed remit envelope (for hardcopies of the newsletter) or visit www.giving.ucla.edu. If you are interested in permanently endowing a seminar series in honor of someone special in your life, please contact Interim Executive Director Stephen Jennings at (310) 825-2558 or by email at SJennings@support.ucla.edu for more information.



*Correction from previous edition: The spring newsletter incorrectly stated that Atsuko Fujimoto is currently the chief of Genetics Division at Los Angeles County/USC Medical Center. She retired from this position in 2006.

HAPPENINGS

2009-2010 Upcoming Events

in the Department of Chemistry & Biochemistry

OCT

23

Sylvia Winstein Memorial

Friday, October 23, 2009 at 3PM (UCLA Faculty Center)

NOV

2

Annual Department Awards Ceremony

Monday, November 2, 2009 at 4PM (CS 50)

NOV

3

107th Faculty Research Lecture Presented by Steven Clarke

Tuesday, November 3, 2009 at 3PM (Schoenberg Hall)

NOV

14

Seaborg Symposium & Medal Award Banquet Honoring Mostafa El-Sayed

Saturday, November 14, 2009 at 12:30PM (CNSI Auditorium, Covell Commons)

NOV

16

Robert L. Scott Lecture Presented by Eric Dickinson

Monday, November 16, 2009 at 4PM (Young Hall 2033)

JAN

11

Daniel Kivelson Lecture Presented by Tom Keyes

Monday, January 11, 2010 at 4PM (Young Hall 2033)

MAR

11

Saul Winstein Lecture Presented by George Olah

Thursday, March 11, 2010 at 5PM (CNSI Auditorium)

MAY

15

UCLA Day

Saturday, May 15, 2010

MAY

20

David S. Sigman Memorial Lecture & Symposium honoring Susan Lindquist

Thursday, May 20, 2010

JUN

12

Department Graduation Ceremony

Saturday, June 12, 2010 (Court of Sciences)

Watermark Photo: Eisenberg Lab

*For more information about events, please visit www.chemistry.ucla.edu or contact the Chair's Office at 310-825-3958

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Timberlake, William & Karen
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Blumstein, Nancy A.
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Chen, Yea-Jer A.
Chiang, Glenn
Clarke, Steven & Catherine
Fellows, Bruce & Sylvia
Garrell, Robin L.
Gin, Carolyn
Handa, Paul
Henrichs, Mark
Ho, Siew P. & Lam, Patrick
Holzer, Margaret E.
Houk, Kendall N.
Ieng, Maly & Castro, Sheryll
Katz, Marion & Howard
Keller, Walter G.
Lin, Yung-Ya
Lo, Frederick & Chan, Polly
Marsi, Marianne & Manning Lewis
Marvin, Dean & Lee
McMahon, Robert & Angela
Mitchell, Dennis K.
Nafisi, Kourosh

Pegolotti, James A.
Piersol, Christopher
Reisler, Emil & Hanna
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Duque, Ricardo
Eisenberg, David & Lucy
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Felker, Russell K.
Fung-Tomc, Joan C.
Gabrielian, Sylva & Leon
Georgiadis, Taxiarchis M.
Goync, Thomas & Cheryl
Gralla, Edith & Jay
Greer, Alexander & Edyta
Griffin, T. Scott
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Harran, Patrick
Hays, Auda K.
Ho, Siew P.
Ho Hector W.
Hoel, Elvin & Donna
Holzrichter, Geoffrey R.
Huang, Tung-Shiuh
Jergenson, Dale & Phyllis
Jiang, De-En
Kaes, Herbert & Joan
Kaner, Richard & Sara
Kato, Gregory J.
Koehler, Carla
Krone, Sonja & Abramo, Graham
Kwan, Janice & Reginald
Kwon, Ohyun
Leitereg, Theodore & Marianne
Louie, Jeffrey & Corry
Margerum, Suzanne & Lawrence
Martinson, Harold & Sara
Mason, Thomas G.
Maverick, Emily & Andrew

Maynard, Heather D. & Bass, A.S.
McBride, William
McNail, Lester
Millar, Michelle D.
Menon, Neeta
Miyada, Don & Setsuko
Mork, H. Craig & Linda
Mura, Cameron
Murai, James & Doris
Nakagawa, Yumi
Ngoon, Christopher R.
Nomi, Akio
Ogawa, Yasushi
Ohara, Pamela C.
Okita, Richard T.
Payton, Patrick H.
Pham, Hoa B.
Pinto, Joseph D. & Linda
Ravetto, Jeffrey J.
Raytheon Systems Company
Reyes Jr., Reynaldo
Rickborn, Bruce F.
Roberts, John & Edith
Rosman, Edwin & Anida
Rowen, Scott & Rana
Russell, Christopher T.
Schwartz, Kenneth E.
Singler, Robert & Judith
Smith-Poling, Sandra E.
Spielmann, Peter H.
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These gifts were received from June 1, 2008 to June 30, 2009.

GRADUATION 2009

Doctor of Philosophy (Graduates Attending Ceremony)**MATTHEW ALLEN**

(Richard Kaner, Advisor) Honeycomb Carbon: A Study of Graphene

REBECCA BROYER

(Heather Maynard, Advisor) Synthesis of Peptide-Polymer Conjugates and Fabrication of Multicomponent Protein Nanoarrays

COLIN CARVER

(Paula Diaconescu, Advisor) Complexes Supported by a Bis-Amidoferrocene Ligand: Reactivity with N-Heterocycles Relevant to Hydrodenitrogenation

KARLA COTI

(J. Fraser Stoddart, Advisor) Dynamic Hydrodynamic-Focusing Microreactor and Liquid Crystalline Bistable [2]Rotaxanes

IAN CRAIG

(Benjamin Schwartz, Advisor) Linear and Nonlinear Optical Properties of Organic Semiconductors

DEFNE EMEL EGECIOGLU(Guillaume Chanfreau, Advisor) Exploration of the RNase III dependent nuclear processing and degradation mechanisms of RNA in *Saccharomyces cerevisiae***JONATHAN FURUYAMA**

(Yung-Ya Lin, Advisor) Contrast Enhancement in MRI by Non-Linear Dynamics using Active Feedback Techniques

ELIZABETH GENDEL(James Bowie, Advisor) Genetic Selection System for Improving Recombinant Membrane Protein Expression in *E. coli***JENNY GLAVIN**

(Carla Koehler, Advisor) The Import Pathway of Yeast Taffazin

WILLIAM GLOVER

(Benjamin Schwartz, Advisor) Quantum/Classical Simulation Algorithm and Application to Condensed-phase Solutes' Electronic Structure and Dynamics Fluorescence Spectroscopy and Microscopy

AMY HAYDEN

(Kendall Houk, Advisor) Computational Studies of Mechanisms and Reactivities of Organic Reactions

JOSEPH HUNT

(Omar Yaghi, Advisor) Synthesis, Characterization, and Gas Adsorption Properties of Covalent Organic Frameworks

SANAZ KABEHIE

(Jeffrey Zink, Advisor) The Design and Synthesis of Silica-Immobilized Heteroleptic Copper Compounds

ROBERT KENNEDY

(Yves Rubin, Advisor) The Synthesis of Carboranes and Metallacarboranes for Use as Molecular Building Blocks and Motors. Part 2: The Synthesis of Self-Assembling Fullerenes for Use in Organic Photovoltaic Devices

YAROSLAV KLICHKO

(Jeffrey Zink, Advisor) Functional Mesoporous Silica Films for Nanosystems Applications

CHRISTOPHER KOLODZIEJ

(Heather Maynard, Advisor) Fabrication of Polymer Nanopatterns for Tissue Engineering and Molecular Sensing Applications

VAN LE

(Sarah Tolbert, Advisor) The Synthesis, Study and Control of Interactions in Magnetic Nanostructures

MONTY LIONG

(Jeffrey I. Zink, Advisor) Biomedical Applications of Mesostructured Silica Materials

SHIRLEY LOMELI

(Joseph Loo, Advisor) Characterization of Large Protein Complexes by Ion Mobility and Mass Spectrometry

KHANHLINH NGUYEN

(Michael Jung, Advisor) Design, Synthesis and Biological Evaluation of Oxysterol Derivatives as Potential Therapeutic Intervention for Osteoporosis

IVORY PENG

(Joseph Loo, Advisor) Electrospray-assisted Laser Desorption Ionization Mass Spectrometry for Proteomic Studies

COLLIN REGAN

(Michael Jung, Advisor) Progress Toward the Total Synthesis of Brasilicardin A

PHILIP RUTKOWSKI

(Jeffrey Zink, Advisor) Photochemistry and Photodeposition of Gas Phase Metal-Containing Compounds

RAMIN SALEHI-RAD

(Michael Jung, Advisor) Total Synthesis of Auripyron A

GRADUATION 2009

Doctor of Philosophy (Continued)

LAURA SERBULEA

(Kendall Houk, Advisor) Generation and Reactions of Nitroxyl and Nitric Oxide and Quantum Mechanical Study of Nitroxide Spin Labels

JOSEPH SPEYER

(Daniel Neuhauser, Advisor) Nanoscale Manipulation of Electronic Conduction

TOM (NUTTEE) SUREE

(Robert Clubb, Advisor) Structural Studies and Drug Discovery of the Staphylococcus aureus Sortase A Enzyme

SHIHO TANAKA

(Todd Yeates, Advisor) Investigation of Macromolecular Assembly in Bacterial Biocompartments

AIMEE TERAUCHI

(Sabecha Merchant, Advisor) Functional Analysis of Photosynthesis in Iron-deficient Chlamydomonas: Ironing Out Photosynthesis Generates New Wrinkles

HEATHER TIENSON

(Carla Koehler, Advisor) Mechanistic Analysis of Redox Dependent Import of Protein into the Mitochondrial Intermembrane Space

VALERIE VILLAREAL

(Robert Clubb, Advisor) Studies of heme acquisition from Staphylococcus aureus

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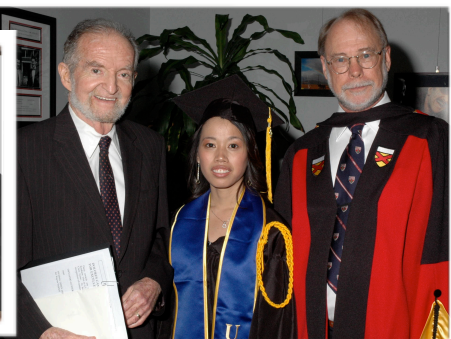
(Omar Yaghi, Advisor) The Synthesis and Investigation of Zeolitic Imidazolate Frameworks for Gas Separation and the Preliminary Study of Metal Organic Frameworks for Catalysis

DORA WARSHAVIAK

(Wayne Hubbell & Emil Reisler, Co Advisors) Modeling the Structure and Dynamics of Biological Molecules. Part A: Quantum Mechanical and Experimental Studies of Nitroxide Side Chains in Proteins. Part B: Molecular Modeling of Actin and its Interactions With Cofilin

CLINT WINKLER

(Albert Couray, Advisor) A Functional Analysis of the Corepressor Groucho in the Development of Drosophila melanogaster



Graduate Student Dissertation Awards

Saul and Sylvia Winstein Award - **Amy Hayden**
 Physical Chemistry Award - **William Glover, Van Le**
 Biochemistry Award - **Shiho Tanaka**
 Inorganic Chemistry Award - **Monty Liong**
 Thomas L. and Ruth F. Jacobs Award - **Robert Kennedy**

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Undergraduate Student Awards

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 Yoshie Kadota Undergraduate Research Fellowship: **Le Le Aye**
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 Daniel Kivelson Undergraduate Summer Research Fellowship: **Sophia Yang**
 Arthur Furst Award for Excellence in Undergraduate Research: **Anthony Shoji Hall**
 Dolores Cannon Southam Award for Excellence in Research: **Osvaldo Gutierrez, Huong Hoang**
 Dunn Award for Excellence in Biochemistry: **Lara Atchabahian, Kathleen Hirano**
 Geissman Award for Excellence in Organic Chemistry: **Thi Kathy Nguyen, Monica So**
 Ramsey Award for Excellence in Physical Chemistry: **Szu Wei Chen, Derrick Tarn**
 Alpha Chi Sigma Achievement Award: **Lisa Yan**
 Hypercube Scholar: **Christian Vaca**
 Merck Index Award: **Aleksandar Kitich, Tin Trung Mai, Kathy Tuong Ngo, Alberto Ponce**
 Ethel Terry McCoy Award: **Fang Cao, Yun Zu Wang, Felice Wei**
 Gold Family Foundation Award: **Vanessa Garcia**

GRADUATION 2009

Bachelor of Science



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NEW FACULTY/IN MEMORIAM

Paul Weiss (continued from p. 1)

Weiss has published more than 200 papers and patents and has given more than 400 invited and plenary lectures. Among his honors are a National Science Foundation Presidential Young Investigator Award (1991–96), the B.F. Goodrich Collegiate Inventors Award (1994), an Alfred P. Sloan Foundation Fellowship (1995–97), the American Chemical Society Nobel Laureate Signature Award for Graduate Education in Chemistry (1996) and a John Simon Guggenheim Memorial Foundation Fellowship (1997). He is a fellow of the American Association for the Advancement of Science (2000), the American Physical Society (2002) and the American Vacuum Society (2007) and a senior member of the IEEE (2009). He received Penn State's Teaching Award from the Schreyer Honors College in 2004.

Weiss earned S.B. and S.M. degrees in chemistry from the Massachusetts Institute of Technology in 1980 and a Ph.D. in chemistry from the University of California, Berkeley, in 1986. He was a postdoctoral member of the technical staff at Bell Laboratories from 1986 to 1988 and a visiting scientist at the IBM Almaden Research Center from 1988 to 1989. Weiss began his academic career at Penn State as an assistant professor in 1989.

From 1996 to 1997, Weiss was a visiting professor in the department of molecular biotechnology at the University of Washington, and from 1998 to 2000, he served as visiting professor at Kyoto University's electronic science and engineering department and Venture Business Laboratory. He also served on the U.S. National Committee for the International Union of Pure and Applied Chemistry from 2000 to 2005.

Weiss was senior editor of the IEEE Electron Device Letters journal for molecular and organic electronics from 2005 to 2007 and since 2007 has served as founding editor-in-chief of the journal ACS Nano. Under his leadership, ACS Nano won the Association of American Publishers Award for Professional and Scholarly Excellence (PROSE) in 2008 for best new journal in science, technology and medicine.

Edward I. Feigon

B.S.'47 (UCLA), died June 8, 2009, aged 84. He is survived by his six children, Teri Broleman of Copperopolis, Professor Juli Feigon of UCLA, Joseph Feigon of San Francisco, Dr. Kim Feigon of San Rafael, Susan Feigon of Henderson, NV, and Dvora Ferrell of Mill Valley. A natural leader and progressive thinker, He was directly responsible for creating a new science discipline called Cereal Chemistry, the science behind modern Food Sciences. He worked as Vice President of product development for Dole Pineapple for nearly two decades. He will be remembered by his friends and family for his humor, sharp intellect and open heart.

Barbara Hered

administrative assistant to *The Journal of Physical Chemistry*, died May 12, 2009, aged 63. She graduated Phi Beta Kappa from the University of Michigan in 1967 and received an M.A. in history from the University of Wisconsin in 1969. After

living in Europe during the 1980's she returned to the States and settled in Los Angeles, earning an M.B.A. from UCLA in 1992. She was a professional musician, playing the flute, and developed a fine art photography business with many gallery shows. At UCLA from 2002 to 2009 she served three *Journal* associate editors: Chuck Knobler, Ben Schwartz, and Peter Felker.

Ruthie Kadota

a great friend of the department, died July 8, 2009, after a long illness. Her mother, Yoshie Kadota, B.A.'37, almost single-handedly oversaw the department's alumni relations. After her mother's death, Ruthie regularly attended our graduation exercises to present the Yoshie Kadota Prize.

Malcolm F. Nicol

professor emeritus of physical chemistry, died May 27, 2009, aged 69. Nicol received his B.A. in chemistry from Amherst College in 1960 and his Ph.D.

from UC Berkeley in 1963, working with George Jura. After a period as a postdoc at UCLA with Bill McMillan, he was appointed assistant professor in 1965 and remained on the UCLA chemistry faculty until his retirement in 1999. He then became professor of chemistry and physics at the University of Nevada, Las Vegas. At UNLV he served as executive director of its High Pressure Science and Engineering Center. Mal's research over the years emphasized the effects of high pressure on molecular solids and liquids.

Jack G. Roof

B.A.'34, M.A.'35 (Blacet), Ph.D.'38 (Wisconsin), died January 2, 2009, aged 95. Roof was an instructor at Oregon State University, worked later at Shell Oil, and retired as a professor at Galveston College in Texas.

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