

Caltech 336

T E S S M T W T F S S M T W

The campus community biweekly
October 2, 2003, vol. 3, no. 14



Silva Stepanian

Women honored for work excellence

The search for a woman who has made outstanding contributions to her work place at Caltech concluded with Silva Stepanian. The computer system administrator in the division of Chemistry and Chemical Engineering is the 2003 recipient of the Medal of Excellence distributed by the Pasadena nonprofit Women at Work.

"It's certainly a privilege," Stepanian said. "I did not expect it at all."

Brandi Jones, the director of the Minority Student Education office, was selected as a finalist. Jones received praise for advising underrepresented student organizations and for taking the time to mentor students.

Stepanian has distinguished herself in a position that requires computer expertise as well as commitment to the educational programs and research goals of her division. The CCE staff and researchers are able to call upon Silva to help solve their computer problems regardless of the day or the hour. Indeed, her noted qualities are her commitment to her coworkers, to the Institute, and to working effectively as a member of a team.

Stepanian, an Armenian, was born in Iraq. As a teenager, she left the Middle East where, she said, the culture prized educational opportunities for boys over those for girls. Once in the United States, she found herself in more favorable circumstances. She took a full-time job as a file clerk at Caltech to finance her younger brother's education and, despite having limited English skills, she began her studies at Pasadena City College.

"The opportunities in the U.S. are staggering for someone who did not grow up here. I hastened to learn the language well so I could enjoy the wonders of Western culture from which I was deprived as a child," she said. "Working at Caltech, I had access to a world of information about how to receive a good education."

After two years at PCC, Stepanian transferred to Cal State Los Angeles and earned her BS in computer science in 1988. More recently, she went on to earn her MBA

see *Women*, page 6

Bioforum to focus on Alzheimer's

The Institute's annual Biology Forum will center this year on the treatment of one of the most emotionally devastating illnesses for patients and their families.

"Remembering the Past, Imaging the Future—Diagnosing and Treating Alzheimer's Disease," sponsored by Caltech in cooperation with the Alzheimer's Association, Los Angeles chapter, and the San Gabriel Valley Newspaper Group, will take place on Tuesday, October 14, at 8 p.m. in Beckman Auditorium. The forum is free and open to the public.

A panel of experts, moderated by *Los Angeles Times* science writer Robert Lee Hotz, will discuss the latest imaging techniques for visualizing pathology in the brains of Alzheimer's patients, their impact on diagnosis of the disease, and ideas for predicting Alzheimer's in presymptomatic individuals, as well as the newest treatment methods and possible remedies on the horizon.

Panelist Jeffrey Cummings, the director of UCLA's Alzheimer's Disease Research Center and president of the board of the Alzheimer's Association, is interested in the development and testing of new treatments for Alzheimer's disease, the characterization and treatment of the neuropsychiatric symptoms of brain disorders, and the interface of science and society.

see *Bioforum*, page 6

Fair will encourage Techers to share rides

The vision of a Gold Line train speeding by while one is stuck in stop-and-go traffic on the 210 Freeway is enough to make the heart ache with envy. Many of us have vowed to start taking public transportation once it's faster, or easier, or cheaper. Now that the web of public transportation routes is more extensive than ever, we have no excuses.

Caltech wants its commuters to know that there are viable and reliable alternatives to getting to the Institute quickly and back home safely while saving money, giving their cars a rest, and decreasing pollution. To do that, the Institute is hosting a Rideshare Fair on Tuesday, October 7, beginning at 11:30 a.m. at Winnett Center.

"Attendees will be able to access information from the AAA, the city of Pasadena, the local bus companies, and the Metrolink rail agency about ways to curb our dependence on automobiles and still be able to get around," says Irma Cruz at Alternative Transportation and Parking Services.

see *Rideshare*, page 6

They're baaaaack



Students flood the Center for Student Services to register for fall term. Orientation Week kicked off with the first-ever president's welcome and convocation, which introduced new students to Caltech's administrators, division chairs, and history, and included tours, information sessions, and social events.

Finding Nemo at Family Night

More than just a fish tale, the acclaimed animated feature *Finding Nemo* is about family, love, and courage—the perfect movie for the annual Caltech–United Way Family Night.

Set for Friday, October 24, the free event, which kicks off the Institute's United Way campaign, will take place on the Beckman Mall. From 5 to 6:15 p.m. Caltech and JPL community members and their families can enjoy a delicious pasta dinner, along with a bevy of activities and exhibits: balloon sculptures, face painting, caricaturists, displays from the Caltech Bookstore and of children's art, and more. During the dinner hour, movie admission stickers will be available on a first-come, first-served basis in front of Beckman Auditorium, where *Finding Nemo* will be screened at 6:30 p.m.

The animated film follows the adventures of two fish—Marlin, a protective, slightly neurotic single dad, and his son, Nemo—in Australia's Great Barrier Reef. When Nemo accidentally ends up in a dentist's fish tank, Marlin is forced to swim out of his comfort zone as, accompanied by a forgetful but helpful friend, he sets out to rescue his son. Audience members of all ages will enjoy this humorous and heartwarming story, featuring the voices of Albert Brooks and Ellen Degeneres.

Please note that stickers will be required for movie admission and no food or drink will be allowed in the auditorium. Free dinner tickets can be obtained from October 6 to 22 at Human Resources, the Women's Center, the Caltech Y, the bookstore, and the Children's Center. At JPL, tickets will be available at the Child Educational Center, United Way Campaign Office, and JPL Store. The evening is sponsored by Human Resources, Campus Life, the Caltech Bookstore, Institute Housing, Physical Plant, Public Events, Dining Services, the Child Educational Center, the Children's Center, and the Caltech Y.

Information on this year's campaign for the United Way of Greater Los Angeles will go out to the campus community soon. The agency serves as an umbrella for more than 250 local charities and organizations, including the Caltech Children's Center, Caltech Y, and JPL Child Educational Center, which employees can designate as donation recipients. Donations to the two children's centers will provide tuition assistance for campus community members.

For more information, e-mail dlorah.gonzales@its.caltech.edu or call ext. 8661.

NewsBriefs



Biology postdoc and master chess player Wei Ji Ma pits his skills against 16 opponents all at the same time in an exhibition welcoming new international students. Ma, who won all 16 games of regular chess, also played simultaneous games of Chinese chess, with two losses and two ties.

Personals

Welcome to Caltech

September

Postdoctoral scholars **Alexandre Blanc**, chemical engineering, and **Sergey Bravyi**, theoretical physics; **Carolyn Brinkworth**, student researcher in physics; **Geoffrey Bryden**, postdoctoral scholar in JPL's astrophysics element; **Kathleen Carreon**, department assistant, mathematics; **Todd Ciche**, postdoctoral scholar in biology; visitors **Daniel Dale**, astronomy, and **Nada Djuric**, chemistry; **Maria D'Orsogna**, postdoctoral scholar in chemistry; **Hector Escobedo**, server, Athenaeum; **Andrew Frey**, John A. McCone Postdoctoral Scholar in Physics; **Alexander Gail**, postdoctoral scholar in biology; **Jonathan Harris**, research assistant II, humanities and social sciences; **Hamish Ivey-Law**, visitor in geophysics; **Michael Kelley**, student researcher in physics; **Anne Jacob Kox**, visiting professor of history; postdoctoral scholars **Xuewei (Larry) Liu**, chemistry, and **John MacAskill Jr.**, JPL's astrophysics and space sciences section; **Valeri Makarov**, staff scientist, Infrared Processing and Analysis Center; **Melanie Martin**, magnetic resonance imaging (MRI) technologist, biology; **Jorge Melendez Moreno**, postdoctoral scholar in astronomy; **Melaku Muluneh**, research assistant I, condensed-matter physics; **Stephane Ouellet**, postdoctoral scholar in chemistry; **Michael Pahre**, visitor in astronomy; **Brenda Peabody**, psychology intern, Counseling Center; **Genger Richmond**, small business supplier specialist, purchasing and payment services; **Orna Rosenthal**, postdoctoral scholar in biology; **Anna Sajina**, student researcher in physics; **Jessica Sanchez**, psychology intern, Counseling Center; **Sara Sansone**, administrative assistant, planetary sciences; **Alexander Sprintson**, postdoctoral scholar in electrical engineering; **Patrick Sutton**, senior postdoctoral scholar in physics; **James Tiedeman**, senior system administrator, Information Technology Services; **John Troeltzsch**, visitor in physics; **Elizabeth Wright**, postdoctoral scholar in biology; **Erick Young**, visitor in astronomy; **Jonathan Young**, research assistant I, biology; **Vivien Zapf**, Robert A. Millikan Postdoctoral Scholar in Physics.

New positions

George Pigman, professor of literature, has been appointed executive officer for the humanities, effective October 1. He joined the Institute's faculty in 1977 as an assistant professor in English, was appointed assistant professor of literature in 1980, and became associate professor in 1983 and professor in 1993. He received his AB from Harvard in 1973 and his PhD from Yale in 1977.

Honors and awards

Jess Adkins, assistant professor of geochemistry and global environmental science, has been awarded the European Association for Geochemistry's 2003 Houtermans medal, which is given to outstanding young scientists for their contribution to geochemistry. Adkins received his PhD from MIT in 1998 and joined Caltech in 2000.

Barry Barish, Linde Professor of Physics and director of the Laser Interferometer Gravitational-Wave Observatory (LIGO) Laboratory, has been chosen to be the Hiroomi Umezawa Distinguished Visitor at the University of Alberta. During his visit this fall or winter he will present both a seminar and a public lecture. Barish received his PhD from UC Berkeley in 1962 and joined Caltech the following year.

Christopher Brennen, professor of mechanical engineering, has been selected by the Japanese Foundation of Fluids Machinery Research to receive the Fluids Science Research Award. The first non-Japanese recipient of this award, Brennen is being recognized for his work on cavitation and multiphase flows, and he will travel to Japan to receive the award on December 5, 2003. He earned his doctorate from the University of Oxford in 1966 and has been a member of the Caltech faculty since 1969.

John Brewer has been named the Eli and Edye Broad Professor of Humanities and Social Sciences. He received his PhD from the University of Cambridge in 1973, and joined Caltech in 2002 as professor of history and literature, a title he retains.

Emmanuel Candès, associate professor of applied and computational mathematics, and his coauthor, former grad student Franck Guo, have received the 2003 Best Paper Award of the European Association for Signal, Speech and Image Processing (EURASIP). The award—in recognition of "New Multiscale Transforms, Minimum Total Variation Synthesis: Applications to Edge-Preserving Image Reconstruction," published in the November 2002 issue of *Signal Processing*—will be presented at the EUSIPCO-2004 conference in Vienna. Candès received his PhD from Stanford in 1998 and joined Caltech in 2000.

André DeHon, assistant professor of computer science, has been named to the 2003 TR100, a list of 100 top young innovators in technology. Chosen from around the world by MIT's *Technology Review* magazine, the nominees "are recognized for their contributions in transforming the nature of technology." DeHon is cited for designing the kind of architectures needed to build practical molecular computers. This includes figuring out how to arrange nanowires into working circuits, and the invention of a reprogrammable architecture based on such circuits. He received his PhD from MIT in 1996 and came to Caltech in 1999.

Kenneth Farley has been named the W. M. Keck Foundation Professor of Geochemistry; this title replaces that of professor of geochemistry. Farley earned his PhD at UC San Diego in 1991 and joined the Caltech faculty in 1993.

Andrew Ingersoll has been named the Earle C. Anthony Professor of Planetary Science; this title replaces that of professor of planetary science. He received his PhD from Harvard University in 1966 and joined Caltech that same year.

Joseph Kirschvink, professor of geobiology, has had an asteroid named in his honor. Asteroid (27711) Kirschvink was discovered on October 6, 1988, at Palomar Observatory by Carolyn Shoemaker and her husband, Caltech graduate and former professor Gene Shoemaker, who died in 1997. The naming honors Kirschvink's interests, which combine the fields of geology and biology. He received his PhD from Princeton University in 1979 and joined Caltech in 1981.

Jerrold Marsden has been named the Carl F. Braun Professor of Engineering and Control and Dynamical Systems; this title replaces that of professor of control and dynamical systems. A professor at Caltech since 1995, Marsden received his PhD from Princeton University in 1968.

David Politzer, professor of theoretical physics, is corecipient of the European Physical Society's 2003 High Energy and Particle Physics Prize, which he shares with David Gross of UC Santa Barbara and Frank Wilczek of MIT. The trio "are best known for their work on QCD—the theory of the strong force. In particular they showed that the force between two particles in certain types of gauge theories is strong when they are far apart and weak when they are close together." Politzer received his PhD from Harvard University in 1974, came to Caltech as a visiting associate in 1975, and joined the faculty in 1976.

Demetri Psaltis, Myers Professor of Electrical Engineering, and colleagues Karsten Buse and Christophe Moser (Caltech PhD 2001) have received the Best Application Award at the Ninth International Conference on Photorefractive Effects, Materials, and Devices. The award, presented annually for novel and significant advances in photorefractive systems, recognizes the trio's work on holographic filters. The recipients will share a cash prize of 2,000 euros. Psaltis received his PhD from Carnegie Mellon University in 1977 and joined Caltech in 1980.

Axel Scherer, Neches Professor of Electrical Engineering, Applied Physics, and Physics, has been selected to receive a Senior U.S. Scientist Award from the Alexander von Humboldt Foundation. A member of the Caltech faculty since 1993, Scherer earned his PhD in 1985 from the New Mexico Institute of Mining and Technology.

Brian Stoltz, assistant professor of chemistry, is a recipient of the 2003 Amgen CR&D Young Investigator's Award, which "has been created to recognize the scientific contribution and commitment to academic excellence of rising young investigators" in the field of chemistry. The recognition includes a cash award, and the recipients will be honored at the Amgen CR&D Young Investigator's Symposium, scheduled for October 29, 2003, at the Amgen headquarters in Thousand Oaks, California. Stoltz received his PhD from Yale University in 1997 and joined Caltech's faculty in 2000.

A writer's life imagined

Northwestern University Press has published Caltech professor of history **Robert Rosenstone's** first novel, a "fictional biography" about the renowned Soviet Jewish writer Isaac Babel, who died in a gulag in 1941 after being arrested for his work's alleged lack of "Socialist Realism." Through the novel, *King of Odessa*, Rosenstone imagines Babel's return to his birthplace of Odessa, his contemplation of a deal with the secret police, and his writing of a manuscript that was afterward lost. Using the only record of this trip—the letters and postcards Babel sent his mother and sister—Rosenstone envisions a middle-aged Babel dealing with writer's block, chronic illness, and childhood memories, all amid the horrors of Stalin's purges.

Rosenstone has written works of biography and history and served as an editor for the *American Historical Review* and *Rethinking History: The Journal of Theory and Practice*, among other academic publications, and as a consultant for several movies and documentaries. He has published in the *New Republic*, the *Progressive*, the *New York Times*, the *Los Angeles Times*, the *Guardian* (Manchester), and the *Times* (of London), and his works have been translated into many languages. He is a recipient of the Book of the Year award from the international journal *Film Historia*, for his book of essays, *Visions of the Past: The Challenge of Film to Our Idea of History*.

King of Odessa is available at the Caltech Bookstore.



The campaign and the president

David Baltimore

As we start a new term, a big issue for the campus is how we are going to succeed in raising the \$1.4 billion that we have set as our campaign goal. I will devote this column to updating the campus on our activities toward this goal by answering some questions that I am sure have occurred to many of you in the Caltech community.

Where are we in the campaign? To date, we have raised about \$860 million in pledges and cash. That takes us a long way toward our goal but leaves the huge challenge of raising more than half a billion dollars. Luckily, the economic picture is looking better, but still this will be quite a task.

Who is doing the work of development (the universal designation for the people who are focused on raising money)? Our Vice President for Development and Alumni Relations, Gary Dicoivitsky, joined the Caltech community a year ago and is in charge of all our fund-raising efforts. We have had a number of departures from various Development offices on campus and, while we have been sorry to see good colleagues leave us, replacements are regularly being made from pools of very strong candidates. Gary is now being assisted at the helm by Associate Vice President Bob McQuinn; Bob recently joined us from Williams College, and we are delighted to

see Baltimore, page 6

Caltech establishes history award

Caltech and the Francis Bacon Foundation, based here on campus, have created the Francis Bacon Award to recognize influential research in the history of science, the history of technology, or historically engaged philosophy of science.

According to Jean Ensminger, chair of the Division of the Humanities and Social Sciences, the Bacon Committee seeks nominees from around the world, particularly those "whose work engages directly with scientific and technological concepts and processes. Typical examples might be the history of ancient mathematical astronomy, the development of techniques for handling noise in early 20th-century signal technology, the origins of the model organism in biology, the ways in which scientists have historically used evidence, partial differential equations in the 18th and 19th century, the production of quantum field theory, the origins of imaging technology, and so on."

The award consists of three parts: a monetary prize of \$20,000; a three-month term as Caltech's Francis Bacon Visiting Professor, interacting with students and faculty and delivering two public lectures; and participation in a biennial conference for outstanding scholars in the area of the winner's interests, with the goal of producing a volume for possible publication in MIT's *Transformations* series.

Up to two nominations may be made by sending a letter of recommendation (one page per nominee) and the candidate's

see Bacon award, page 6

October 6–12, 2003

M T W T F S S

Monday, October 6

Aeronautics Seminar

101 Guggenheim Lab, Lees-Kubota Lecture Hall, 1 p.m.—“High-Power Ion Engines for Nuclear Electric Propulsion Systems,” James Polk, JPL. Information: www.galcit.caltech.edu/seminars.shtml.

Geological and Planetary Sciences Seminar

155 Arms, Robert Sharp Lecture Hall, 4 p.m.—“Time Scales of Asteroidal and Planetary Differentiation Based on Short-Lived Chronometers,” Meenakshi Wadhwa, associate curator, Field Museum, Chicago.

Inorganic-Electrochemistry Seminar

147 Noyes, Sturdivant Lecture Hall, 4 p.m.—“Recent Development of Crystalline Porous Chalcogenides,” Professor Pingyun Feng, assistant professor of chemistry, UC Riverside.

Applied and Computational Mathematics Colloquium

101 Guggenheim Lab, Lees-Kubota Lecture Hall, 4:15 p.m.—“New High-Order, High-Frequency Methods in Computational Electromagnetism,” Oscar Bruno, professor of applied and computational mathematics, Caltech. Refreshments, 3:45 p.m. Information: www.acm.caltech.edu/colloq.shtml.

Tuesday, October 7

Caltech Library System Presents: Quick Overview of Information Resources

Sherman Fairchild Library, multimedia conference room, noon to 1:30 p.m.—Learn the most effective ways to use library services and resources. No reservations are required. This session is designed especially for graduate students, postdocs, and research staff, but all are welcome. Information: 395-4008 or <http://library.caltech.edu/learning/default.htm>.

Institute for Quantum Information Seminar

74 Jorgensen, 3 p.m.—Topic to be announced. Philippe Pouliot, research associate, physics department, Queen Mary, University of London.

Carnegie Observatories Colloquium Series

William T. Golden Auditorium, 813 Santa Barbara Street, 4 p.m.—“Observed and Physical Properties of Type II Plateau Supernovae,” Mario Hamuy, Carnegie Observatories. Refreshments, 3:30 p.m.

Chemical Physics Seminar

147 Noyes, Sturdivant Lecture Hall, 4 p.m.—Topic to be announced. Professor Roberto Car, Princeton.

Wednesday, October 8

Mathematical Physics Seminar

351 Sloan, noon—“Spectral Shift of a Compactly Supported Potential,” Ivan Veselic, visitor in mathematics, Caltech. Information: www.math.caltech.edu/events/mathphys.html.

Astronomy Colloquium

155 Arms, Robert Sharp Lecture Hall, 4 p.m.—Topic to be announced. Professor John Hawley, department of astronomy, University of Virginia. Information: www.astro.caltech.edu/~gma/colloquia.html.

Materials Research Lecture

106 Spalding Lab, Hartley Memorial Seminar Room, 4 p.m.—“X-Ray Absorption Spectroscopy and Lithium Battery Materials,” Professor Guy Ouvrard, Centre National de la Recherche Scientifique, Nantes. Refreshments, 113 Spalding, 3:45 p.m.

Thursday, October 9

Caltech Library System Presents: Quick Overview of Information Resources

Sherman Fairchild Library, multimedia conference room, 2 to 3:30 p.m.—Learn the most effective ways to use library services and resources. No reservations are required. This session is designed especially for graduate students, postdocs, and research staff, but all are welcome. Information: 395-4008 or <http://library.caltech.edu/learning/default.htm>.

Biochemistry Seminar

147 Noyes, Sturdivant Lecture Hall, 4 p.m.—“Nucleosome Structure and Dynamics,” Karolin Luger, associate professor, department of biochemistry and molecular biology, Colorado State University.

Physics Research Conference

201 E. Bridge, 4 p.m.—“Using DNA to Assemble Nanoscale Structures and Devices,” Bernard Yurke, Moore Distinguished Scholar in computation and neural systems, Caltech. Refreshments, 114 E. Bridge, 3:45 p.m. Information: www.pma.caltech.edu/~physcoll/PhysColl.html.

Social and Information Sciences Laboratory Seminar Series

25 Baxter, 4 p.m.—“A General Class of No-Regret Algorithms and Game-Theoretic Equilibria,” Amy Greenwald, assistant professor, computer science department, Brown University. Refreshments.

Friday, October 10

High Energy Theory Seminar

469 Lauritsen, 11 a.m.—“Vortices in String Theory and the Real World,” David Tong, MIT. Information: www.theory.caltech.edu/people/seminar/schedule.html.

Fluid Mechanics Seminar

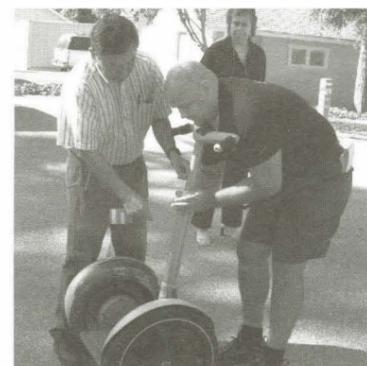
101 Guggenheim Lab, Lees-Kubota Lecture Hall, 3 p.m.—“Variability of Turbulence and Its Outer Scales in a Non-uniformly Stratified Tropopause Jet,” Professor Alex Mahalov, departments of mathematics and statistics and of mechanical and aerospace engineering, Arizona State University. Information: www.galcit.caltech.edu/Seminars/Fluids/CurrentFluids/index.html.

Inorganic-Electrochemistry Seminar

147 Noyes, Sturdivant Lecture Hall, 4 p.m.—“From Simplified to Real Transition Metal Complexes: A DFT Perspective of the Role of Ligands,” Professor Odile Eisenstein, directeur de recherche LSDSMS, Université Montpellier 2, France.

Kellogg Seminar

Lauritsen Library, 4 p.m.—“Neutrino-Deuteron Reactions,” Professor Malcolm Butler, department of astronomy and physics, St. Mary's University, Halifax.



A representative from DEKA trains Caltech security officer Rene Perez in riding the Segway.

Segway creator to chat with president

Dean Kamen, entrepreneur and inventor of the Segway Human Transporter and other innovative technologies, will join President David Baltimore—who has been spotted navigating campus on one of the conveyances—in a free-flowing discussion on Monday, October 20.

A vocal advocate of science and technology, Kamen is the founder of DEKA Research & Development Corporation, whose mission is “first and foremost . . . to foster innovation” in creating “technologies that enhance quality of life.” Kamen’s latest invention, the Segway, described as “a breakthrough in personal transportation,” is a self-balancing device that allows users to travel more quickly and efficiently while remaining in the walking environment.

Caltech recently purchased a Segway for its security officers. According to security chief Gregg Henderson, the vehicle will boost campus safety by allowing officers to be “substantially more mobile” and to respond more quickly than when on foot, without the bulkiness of an electric cart. Particularly along the crowded Olive Walk and San Pasqual Avenue, he says, the device’s small size—“not much wider than a person”—will bring an increased security presence while reducing traffic.

Last week, DEKA recalled two Segway models after three riders were injured, apparently after falling off when the device’s batteries ran low. The company is offering a free upgrade of the Segway software to fix the problem. Henderson said Caltech’s model did not appear to be affected, but that DEKA was sending new software as a backup.

DEKA has also created some notable medical devices, including the iBOT Mobility System, a sophisticated wheelchair that climbs stairs, traverses bumpy terrain, and raises the user to standing height, and a portable dialysis machine marketed by Baxter Healthcare.

Sponsored by the President’s Office, the free public event will begin at 4:30 p.m. in Baxter Lecture Hall. No tickets or reservations are required.

October 13–19, 2003

M T W T F S S

Monday, October 13

George W. Beadle Biology Symposium

119 Kerckhoff, 4 p.m.—To honor the centennial of George W. Beadle's birth, talks will be presented by Paul Berg, Cahill Professor of Biochemistry, Emeritus, Stanford University School of Medicine; John Doebley, professor of genetics, University of Wisconsin–Madison; and Maxine Singer, president emeritus, Carnegie Institution of Washington. A book signing of *An Uncommon Farmer: George Beadle and the Emergence of Genetics in the 20th Century*, by Professors Berg and Singer, will be held after the symposium.

Geological and Planetary Sciences Seminar

155 Arms, Robert Sharp Lecture Hall, 4 p.m.—"Hotspots, Wetspots, and Dampspots: Recycling of Water into the Earth's Deep Mantle," Professor Jacqueline Dixon, department of geological sciences, University of Miami.

Inorganic-Electrochemistry Seminar

147 Noyes, Sturdivant Lecture Hall, 4 p.m.—Topic to be announced. Shannon Stahl, assistant professor of chemistry, University of Wisconsin–Madison.

Applied and Computational Mathematics Colloquium

101 Guggenheim Lab, Lees-Kubota Lecture Hall, 4:15 p.m.—Topic to be announced. George Papanicolaou, Moore Distinguished Scholar, Caltech. Refreshments, 3:45 p.m. Information: www.acm.caltech.edu/colloq.shtml.

Tuesday, October 14

Web of Science for Science and Engineering

120 ATC Building, 263 S. Chester, noon to 1:30 p.m.—Learn tips and tricks for searching Web of Science databases more effectively. Registration: <http://library.caltech.edu/learning/form.htm>.

Institute for Quantum Information Seminar

74 Jorgensen, 3 p.m.—"In Defense of the View That Quantum States Are States of Knowledge," Dr. Robert Spekkens, Perimeter Institute.

Mechanical Engineering Seminar

206 Thomas, 3 p.m.—"Electrokinetic Microfluidic Systems," Professor Juan G. Santiago, department of mechanical engineering, Stanford University. Refreshments, 210 Thomas, 2:45 p.m. Information: www.me.caltech.edu/seminars.html.

Carnegie Observatories Colloquium Series

William T. Golden Auditorium, 813 Santa Barbara Street, 4 p.m.—"Galactic Winds," Crystal Martin, department of physics, UC Santa Barbara. Refreshments, 3:30 p.m.

General Biology Seminar

119 Kerckhoff, 4 p.m.—"Rise and Fall of the Paleozoic Primeval Forests," William DiMichele, department of paleobiology, National Museum of Natural History, Smithsonian Institution.

Mathematics Colloquium

151 Sloan, 4:15 p.m.—"Riemann Surfaces and Multidimensional Complex Analysis in the Theory of Analytic Foliations," Professor Yulij Ilyashenko, department of mathematics, Cornell University. Information: www.math.caltech.edu/seminars.html.

Biology Forum

Beckman Auditorium, 8 p.m.—"Remembering the Past, Imaging the Future: Diagnosing and Treating Alzheimer's Disease." A panel of experts will discuss imaging techniques, diagnosis, and treatment of Alzheimer's disease. Moderator: Robert Lee Hotz, science writer, *Los Angeles Times*. Admission is free. Information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD).

Wednesday, October 15

Mathematical Physics Seminar

351 Sloan, noon—"Pinning of Polymers by Random Potentials," Professor Kenneth Alexander, department of mathematics, USC. Information: www.math.caltech.edu/events/mathphys.html.

Astronomy Colloquium

155 Arms, Robert Sharp Lecture Hall, 4 p.m.—"The Blue Quasar Conspiracy: Maybe We Need a Recount," Professor Robert Becker, physics department, UC Davis and Lawrence Livermore National Laboratory. Information: www.astro.caltech.edu/~gma/colloquia.html.

Empirics Seminar Series

25 Baxter, 4 p.m.—"Share Price Changes and the Arrival of Limited Liability in California," Mark Weinstein, associate professor of business economics and finance, Marshall School; and associate professor of business and law, Law School, USC. Refreshments.

Materials Research Lecture

106 Spalding Lab, Hartley Memorial Seminar Room, 4 p.m.—"Simulation of Ferroelectric Materials," William A. Goddard, Ferkel Professor of Chemistry, Materials Science, and Applied Physics, and director of the Materials and Process Simulation Center, Caltech. Refreshments, 113 Spalding, 3:45 p.m.

Ernest C. Watson Lecture Series

Beckman Auditorium, 8 p.m.—"Viruses, Viruses, Viruses," David Baltimore, president and professor of biology, Caltech. Admission is free. Information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD). Visit Public Events at www.events.caltech.edu.

Thursday, October 16

Caltech Library System Presents: Introduction to Crystal Structure Databases

Sherman Fairchild Library, multimedia conference room, 2 to 3:30 p.m.—A quick review of various crystal structure compilations and databases. Registration: <http://library.caltech.edu/learning/form.htm>.

Constantin G. Economou Memorial Lecture in Chemical Engineering

106 Spalding Lab, Hartley Memorial Seminar Room, 2 p.m.—"Breaking the Degeneracy of the Genetic Code," Inchan Kwon, graduate student in chemical engineering, Caltech. Refreshments, 113 Spalding Lab, 3 p.m.

Biochemistry Seminar

153 Noyes, Sturdivant Lecture Hall, 4 p.m.—"mRNA Display: From Ligand Discovery to Expansion of the Genetic Code," Richard Roberts, assistant professor of chemistry, Caltech.

William Bennett Munro Memorial Seminar

25 Baxter, 4 p.m.—"The Radical Enlightenment," Professor Jonathan Israel, School of Historical Studies, Institute for Advanced Studies. Refreshments.

Physics Research Conference

201 E. Bridge, 4 p.m.—Topic to be announced. Scott Fraser, Rosen Professor of Biology and director, Biological Imaging Center, Caltech. Refreshments, 114 E. Bridge, 3:45 p.m. Information: www.pma.caltech.edu/~physcoll/PhysColl.html.

Von Karman Lecture Series

JPL, von Karman Auditorium, 7 p.m.—"Cosmic Jets: New Building Blocks of the Universe," Dr. David Meier, astrophysicist, Telecommunications Science and Engineering Division, JPL. Admission is free. Information: www.jpl.nasa.gov/lecture.

Friday, October 17

High Energy Theory Seminar

469 Lauritsen, 11 a.m.—Topic to be announced. Dr. Amir Kashani-Poor, Institute for Theoretical Physics, Stanford. Information: www.theory.caltech.edu/people/seminar/schedule.html.

Fluid Mechanics Seminar

101 Guggenheim Lab, Lees-Kubota Lecture Hall, 3 p.m.—"Instabilities of Wake Vortices," Professor Omer Savas, department of mechanical engineering, UC Berkeley. Information: www.galcit.caltech.edu/Seminars/Fluids/CurrentFluids/index.html.

Inorganic-Organometallics Seminar

151 Crellin, 4 p.m.—"Why is Lead Toxic? Insights from Coordination Chemistry into Molecular Mechanisms of Lead Poisoning," John Magyar, postdoctoral scholar in chemistry, Caltech.

Von Karman Lecture Series

Pasadena City College, 1570 E. Colorado, the Vosloh Forum (south of Colorado on Bonnie), 7 p.m.—"Cosmic Jets: New Building Blocks of the Universe," Dr. David Meier, astrophysicist, Telecommunications Science and Engineering Division, JPL. Admission is free. Information: www.jpl.nasa.gov/lecture.

It's all about viruses

The 2003–04 Watson Lecture series will open with a timely talk by Caltech president and professor of biology David Baltimore. "Viruses, Viruses, Viruses" will take place on Wednesday, October 15, at 8 p.m. in Beckman Auditorium.

It seems we can't listen to the news lately without hearing about some alarming new virus. Before, there was mainly HIV, but now there's SARS, monkey pox, Ebola, Newcastle disease, flu, and on and on. Why are we suddenly plagued with all these viruses? What are viruses, anyway, and where do they come from? And how can we counter them? A Nobel Prize-winning virologist, Baltimore will lay out the facts about these minute but powerful infectious organisms.

Seating for the free public lecture will be first-come, first-served, starting at 7:30 p.m. For more information, contact Public Events at 1 (888) 2CALTECH, (626) 395-4652, or events@caltech.edu, or visit www.events.caltech.edu. Individuals with a disability can call 395-4688 (voice) or 395-3700 (TDD).

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CampusEvents

Monday, October 6

Baby Furniture and Household Equipment Pool

234 S. Catalina, 10 a.m. to 12:30 p.m.—Loans of kitchen and household necessities and baby furniture are made to members of the Caltech community. Information: 584-9773.

Men's Soccer

at Chapman University, 7 p.m.

Voices of Vision: Garrison Keillor

Beckman Auditorium, 8 p.m.—Garrison Keillor, storyteller and host of *A Prairie Home Companion*, will read from his new novel, *Love Me*. A book signing will follow the reading. Presented in collaboration with Caltech's Words Matter program and Vroman's Bookstore. Admission is free. Information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD). Visit Public Events at www.events.caltech.edu.

Tuesday, October 7

Preschool Playgroup

Tournament Park, 10 a.m. to noon—Song and storytime, crafts and free play for toddlers and preschoolers (from walking to age 4). Information: 792-7808 or julia@astro.caltech.edu.

Caltech Shorinji Kempo Club

Brown Gymnasium, 7 p.m.—Learn effective self-defense and martial arts. Sessions are free. No experience required. Wear comfortable clothing.

Caltech Tai Chi Club

Winnett lounge, 7 p.m.—Meets Tuesdays and Fridays weekly. Sessions are free. Information: www.its.caltech.edu/~taichi.

Volleyball

at University of Redlands, 7:30 p.m.

Brenda Maddox Lecture

Beckman Institute auditorium, 8 p.m.—Brenda Maddox, author of *Rosalind Franklin: The Dark Lady of DNA*, will speak. Maddox has won a number of prestigious awards for her biographies. Franklin, the subject of this book, worked with Watson and Crick on their discovery of the double helix structure of DNA. Information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD).

Wednesday, October 8

Baby Furniture and Household Equipment Pool

234 S. Catalina, 10 a.m. to 12:30 p.m.—Loans of kitchen and household necessities and baby furniture are made to members of the Caltech community. Information: 584-9773.

Wednesdays in the Park

Tournament Park, 10 a.m. to noon—Every Wednesday there's conversation and coffee for parents and caregivers, and playtime and snacks for children. Information: 403-7163 or ktclark@caltech.edu.

Caltech Women's Club Fall Gathering

President's Residence, 11:30 a.m. to 1:30 p.m.—The Fall Gathering is a time for new and returning members to learn about Women's Club events and activities. Lunch may be purchased for \$12.50 (\$7.50 for students). Reservations by October 3. Information: Karen Blake, 351-4201 or kblake@its.caltech.edu. In case of rain, we will meet at Avery House.

Men's Soccer

at Pomona-Pitzer, 4 p.m.

Thursday, October 9

Caltech Shorinji Kempo Club

Brown Gymnasium, 7 p.m.—Learn effective self-defense and martial arts. Sessions are free. No experience required. Wear comfortable clothing.

SGV Linux Users' Group Meeting

101 Guggenheim Lab, Lees-Kubota Lecture Hall, 7 p.m.—Wil Wheaton will speak on publishing with open-source tools. He recently published a collection of autobiographical short stories called *Dancing Barefoot*. In this presentation, he will talk about how he used OpenOffice.org, Kwrite, and the gimp to write, edit, and publish the book. Information: www.sgvlug.org.

Friday, October 10

Caltech Tai Chi Club

Winnett lounge, 7 p.m.—Meets Tuesdays and Fridays weekly. Sessions are free. Information: www.its.caltech.edu/~taichi.

Dance Under the Stars with Michael Andrew and Swingerhead

Beckman Mall, 8 p.m.—Dance on an outdoor dance floor to a tantalizing mix of swing, cha-cha, mambo, and more. During intermission, the Pasadena Ballroom Dance Association will provide a group lesson. Tickets and information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD). Visit Public Events at www.events.caltech.edu.

Saturday, October 11

Caltech/MIT Enterprise Forum

Baxter Lecture Hall, 9 a.m. to noon—The Caltech/MIT Enterprise Forum kicks off its 20th year with its annual visit to the entrepreneurial landscape. "Why Be an Entrepreneur? Modes and Methods for Successful Entrepreneurial Ventures" will focus on how individual entrepreneurs can exploit their strengths and avoid areas for which they are not well suited. Registration: 395-3916, entfor@caltech.edu, or www.entforum.caltech.edu.

Men's Soccer

vs. Cal Lutheran University, 11 a.m.

Men's Water Polo

vs. Grove City College, 11 a.m.

Introduction to Self-Defense for Women

Caltech Women's Center, 1 p.m.—Learn the physical techniques involved in self-defense. You will be taught a variety of hands-on techniques, and will have the opportunity to rehearse verbal role-play scenarios. Registration: wcenter@studaff.caltech.edu.

Dance Under the Stars with Bobby Matos

Beckman Mall, 8 p.m.—Salsa the night away to the jazzy Afro-Cuban beat of percussionist Bobby Matos and his band. Tickets and information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD). Visit Public Events at www.events.caltech.edu.

Sunday, October 12

Caltech Shorinji Kempo Club

Braun Gym, multipurpose room, 3:30 p.m.—Learn effective self-defense and martial arts. Sessions are free. No experience required. Wear comfortable clothing.

Monday, October 13

Credit Union Closure

All branches of the Caltech Employees Federal Credit Union will be closed for staff training.

Baby Furniture and Household Equipment Pool Closed This Week

Tuesday, October 14

Preschool Playgroup

Tournament Park, 10 a.m. to noon—Song and storytime, crafts and free play for toddlers and preschoolers (from walking to age 4). Information: 792-7808 or julia@astro.caltech.edu.

Caltech Shorinji Kempo Club

Brown Gymnasium, 7 p.m.—Learn effective self-defense and martial arts. Sessions are free. No experience required. Wear comfortable clothing.

Caltech Tai Chi Club

Winnett lounge, 7 p.m.—Meets Tuesdays and Fridays weekly. Sessions are free. Information: www.its.caltech.edu/~taichi.

Volleyball

vs. University of La Verne, 7:30 p.m.

Wednesday, October 15

Wednesdays in the Park

Tournament Park, 10 a.m. to noon—Every Wednesday there's conversation and coffee for parents and caregivers, and playtime and snacks for children. Information: 403-7163 or ktclark@caltech.edu.

Fall Career Fair

Bechtel Mall, 10:30 a.m. to 2:30 p.m.—An informal opportunity for students of all levels as well as postdocs to gather company information, speak with company representatives, and drop off their résumés.

Self-Defense Against Intruders

Caltech Women's Center, noon—Safety and self-defense expert Lauren Hines will address key issues about staying safe and protecting yourself in your home. Learn how to assess your home's security potential, create a dependable safety plan, confront danger, and respond decisively under pressure. Participants will also be introduced to self-defense techniques. Registration: wcenter@studaff.caltech.edu.

Men's Soccer

vs. University of La Verne, 4 p.m.

Thursday, October 16

Reel Women Series: "Secret of Photo 51"

Caltech Women's Center, noon—This *Nova* video concerns the 1953 discovery by Watson and Crick of the structure of DNA. Their breakthrough depended on the pioneering work of another biologist, Rosalind Franklin, and her X-ray image indicating DNA's double-helical structure. Lunch and drinks provided.

Caltech Shorinji Kempo Club

Brown Gymnasium, 7 p.m.—Learn effective self-defense and martial arts. Sessions are free. No experience required. Wear comfortable clothing.

Friday, October 17

Caltech Tai Chi Club

Winnett lounge, 7 p.m.—Meets Tuesdays and Fridays weekly. Sessions are free. Information: www.its.caltech.edu/~taichi.

Volleyball

Marymount Tourney, at Marymount College, Arlington, Virginia, 7 p.m.

Caltech Folk Music Society Presents Fil Campbell

Winnett lounge, 8 p.m.—Program to be announced. Tickets and information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD). Visit the Folk Music Society at http://folkmusic.caltech.edu.

Saturday, October 18

Volleyball

Marymount Tourney, at Marymount College, Arlington, Virginia, 9 a.m.

Men's Soccer

vs. Occidental College, 11 a.m.

Men's Water Polo

vs. Whittier College, 11 a.m.

Tweaksters

Beckman Auditorium, 2 p.m.—Two quirky artists, Regan Patno and Julia Snyder, explore the laws of physics, then seemingly smash them to bits in a stunning mix of dance, juggling, and acrobatics. Tickets and information: 395-4652, 1 (888) 2CALTECH, or events@caltech.edu. Individuals with a disability: 395-4688 (voice) or 395-3700 (TDD). Visit Public Events at www.events.caltech.edu.

Sunday, October 19

Open House

Outdoor area around Beckman Auditorium, noon to 5 p.m.—An opportunity for prospective undergraduate students and their families to visit Caltech. Campus tours, presentations by faculty members from the various academic divisions, and financial aid and admissions workshops will take place. High school students are invited to attend. Information: http://admissions.caltech.edu/subpage/news.

Caltech Shorinji Kempo Club

Braun Gym, multipurpose room, 3:30 p.m.—Learn effective self-defense and martial arts. Sessions are free. No experience required. Wear comfortable clothing.

Find a new career

The Fall Career Fair will take place on Wednesday, October 15, from 10:30 a.m. to 2:30 p.m. at the Bechtel Mall, west of Millikan Library. Open to all Caltech community members, the event is especially geared toward undergraduates, grad students, and postdocs, providing a chance to gather information from a variety of companies in a fun, informal arena. Freshmen and sophomores are encouraged to attend and familiarize themselves with companies, as well as to explore summer internship opportunities. Interested job seekers should bring their "résumés and questions" to the fair, says Jonie Watanabe Tsuji, event coordinator.

As of press time, some of the companies scheduled to participate included Bank of America Securities, Boeing, the Gas Technology Institute, three divisions of Northrop Grumman, the Rand Corporation, ExxonMobil Corporation, Rockwell Scientific Company, Los Alamos National Laboratory, MIT Lincoln Laboratory, Space Exploration Technologies, Fair Isaac Corporation, and the Peace Corps. For more information, contact the Career Development Center at career@caltech.edu or ext. 6361.

Pasadena to offer free night of art

Pasadena's 10th biannual ArtNight will take place on Friday, October 10. The free public event provides a chance to experience the variety of art, artifacts, and music offered by the city's museums and cultural institutions, with city-sponsored shuttles providing transportation. Visitors are encouraged to arrive by Metro Gold Line and use the main shuttle stop at Raymond Avenue and Holly Street, near the Memorial Park Station, or they may park at any participating venue—the Armory Center for the Arts, Armory Northwest, Art Center College of Design, the Norton Simon Museum, One Colorado, the Pacific Asia Museum, Pasadena City College, the Pasadena Museum of California Art, the Pasadena Museum of History, the Pasadena Symphony at the Civic Auditorium, and Southwest Chamber Music at the Norton Simon Museum—and ride shuttles to other locations. For more information, visit www.artcenter.edu/artnight or call (626) 744-7249. The event is sponsored in part by the city of Pasadena Arts Commission Cultural Trust Fund.

Baltimore, from page 2

welcome him to Caltech. Gary and Bob are confident about bringing the staff up to full strength, a process that should be completed before the end of the year.

How have we been doing recently? Truthfully, our receipts are less than I might have hoped because of the continued weakness of the economy. However, we have many proposals pending, and we are cultivating many people who may be donors to Caltech in the future. These prospective donors are drawn to our core values, our mission to educate creative leaders in society, and our ability to contribute to the progress of science and technology. Increasing our pool of potential donors is a very significant part of our strategy in the campaign. The Trustees have been particularly generous; their support has provided critical impetus to the campaign. We kicked off the campaign in Pasadena and San Francisco and just had a similar event in New York City in late September. Our new office in New York has already increased our visibility in the East, both among our alumni and nonalumni friends. Alumni activities in the East and Midwest have been strengthened. Our traditional effectiveness with philanthropic foundations has been enhanced, and we are working harder to increase our support from corporations. The people in development have been working very hard in pursuit of these goals, and I am very appreciative of their dedication.

What have I personally been doing to help the development effort? A few months ago, I made the decision to devote the major portion of my time to the campaign. To give you an idea of what this means, when I look at my calendar for the last week I find discussions of development targets, discussions with potential donors, talks to campus groups, strategy sessions, planning the Annual Report, helping to shape a unique development idea, arranging future meetings, and much more. I spend some of virtually every day exposing people to the wonders of Caltech. Whether it is greeting visitors to campus, speaking at events in the greater Los Angeles area, or traveling to other cities, a big part of my job in this effort is to excite people about the doings on campus and the potential for the future. At the same time, I cannot lose contact with the events on campus because I must be able to discuss them intelligently with others and see that they fit into a larger conception of Caltech. Along with the rest of the administration, I have been working to bring Caltech into a more stable fiscal position while keeping us at the cutting edge of research and education. Thus far, this balancing act has been accomplished thanks to the extraordinary gift of Gordon and Betty Moore, which provides us with re-

sources to meet the demands of modern investigation while we retrench some on our general budget expenditures. For the future, the key is to bring home the campaign successfully so that we can continue to be effective over the long run.

Working for the campaign has brought me closer to Caltech because it requires representing the Institute on so many occasions. When speaking to others, I try to reflect the full diversity of activities that take place on this campus, presenting a picture of our greatness in science, engineering, social science, and the humanities. But when I meet face to face with any single individual, I need to present us in a way that resonates with the values of that person. It is then that I need to think most deeply about the full range of Caltech's strengths. I rarely feel stymied because we are engaged in wrestling with so many of the most critical issues of our times. Whether it be the cosmos or nanoscience, health or energy, mathematics or human values, we are at the forefront. It makes it easy to present us even to those who are not themselves scientists or technologists. If a campaign undresses a university and leaves it naked, then we look pretty good stripped to our essence.

It is evident that the campaign was started at a difficult time, because the economy was in such poor shape. However, precisely timing a campaign is not possible because it involves so much planning and stretches over such a long time. We planned for two years intensively and did spade work for years before that. The campaign will last at least five years. Therefore, it has to be expected that the campaign will spread over economic ups and downs. If the economy is truly coming back now, we may find that the ending years of the campaign will reveal unexpected opportunities.

The campaign has provided many occasions for me to meet with our alumni. I am continually struck by their loyalty to Caltech, and they each invariably reflect upon the rare educational experience they had here. Talking to nonalumni, I am amazed by the awe in which they hold Caltech. This is satisfying in that it says we are truly special, but it has the downside that they often feel Caltech is unapproachable. All of us need to present the human face of Caltech forcefully so that people understand that we are working for aims they can understand and that will impact their lives.

I appreciate having this opportunity to give an update on our efforts thus far. I feel privileged to be able to represent Caltech on campus and off, and I remain grateful to every member of our community for the work you all do in pursuit of our ambitious goals. Have a terrific term.

Rideshare, from page 1

The theme this year is Make Any Day a Rideshare Day. "Statistics show that 60 percent of people who try a rideshare route stick with it," Cruz says. That's why pledge cards will be available for those interested in promising to take an alternative form of transportation at least one day that week. The Metropolitan Transportation Authority will award an iPod portable music player to one lucky participant, and Caltech will raffle off certificates for use at local retailers and restaurants.

According to Cruz, there is a real need in the Caltech community for alternative means of travel. Currently, only 160 cars are registered to service some 300 carpoolers, she says. In addition, there are two vanpools, one from Rialto and another from the Lancaster area. Cruz has gotten inquiries from people who want vanpools from the San Fernando Valley and as far away as Irvine.

Caltech has several programs and incentives to convince commuters that it's OK to carpool, take a bike, or walk to the Institute. These benefits include a refund of \$15 to those who purchase the MTA monthly pass, permits and preferential parking for carpoolers, a free shuttle that runs between Caltech and JPL, and the Guaranteed Ride Home program. Monthly subsidies and parking spaces are available to those who participate in vanpools. Details are available on line at www.atc.caltech.edu/CIT_Parking/rideshare.htm or by calling Cruz at ext. 4702.

Bioforum, from page 1

Professor John Mazziotta is the chair of the neurology department and director of the Brain Mapping Center at UCLA's Geffen School of Medicine. Mazziotta is interested in imaging the effects of Alzheimer's on the brain, and in the diagnosis and presymptomatic detection of the disease. He focuses on structure-function relationships in the nervous system using functional imaging and also evaluates normal brain behavioral responses to motor, sensory, cognitive, and learning tasks, and to drugs.

Scott Fraser, Caltech's Rosen Professor of Biology, uses high-tech imaging techniques to study living embryos and to examine the role of cell interactions, intercellular signals, and gene regulatory mechanisms. His group is also developing novel labels for imaging technology.

No tickets or reservations are required for the forum, but early arrival is recommended. For more information, call Caltech Public Events at (626) 395-4652 or (888) 2CALTECH, or visit www.events.caltech.edu. Persons with disabilities can call (626) 395-4688 (voice) or (626) 395-3700 (TDD) weekdays, 9 a.m. to 4 p.m.

Bacon award, from page 2

curriculum vitae by December 15 to Clare Brown, Secretary to the Bacon Committee, Baxter 228-77, California Institute of Technology, Pasadena, CA 91125.

The committee—comprising Caltech professors Jed Buchwald, chair; Phil Hoffman; and Jim Woodward, and two external scholars—will review the nominations and reach a decision by the end of February 2004. Candidates will be evaluated on originality, productivity, promise, and ability to inspire other scholars; dissertation research will not be eligible.

For more information, contact Brown at clare@hss.caltech.edu or (626) 395-4067, or Buchwald at (626) 395-3210.

Women, from page 1

from the University of La Verne, in 1997. Her database expertise is a valued commodity, and it is not unusual for her to be called upon for assistance by other units at Caltech.

For the past three years, she has earned letters of appreciation from the mayor of Pasadena and others for her volunteer efforts in helping patrons learn computer-related programs in the city's public library system.

Despite these impressive accomplishments, this "woman at work" expressed thanks to her co-workers and managers at Caltech, but firstly to the most important woman in her life.

"My greatest hero is my mother, because she was never discouraged by hardships and she always served others most selflessly," she said. "God also brought some remarkable ladies in my path here at Caltech, who mentored me in my professional career, encouraged me to continue my education and to hold higher positions, and provided great resources for me."

Silva Stepanian will be honored at the 24th annual Medal of Excellence luncheon on October 23, beginning at 11:30 a.m., at the Pasadena Westin Hotel.

Graphics and mail fair

The former Graphic Arts is celebrating its new name with a Graphic Resources and Mail Services fair on Friday, October 3, from 11 a.m. to 2 p.m. on the Winnett patio. This one-stop event will offer an array of products and services: passport photos, stamps, discount FedEx shipping, photo processing, custom framing, personalized holiday cards and gifts, and much more. Enjoy live jazz, a barbecue lunch from Catering Services (\$5), free dessert, and the chance to win great prizes.

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T E S S E T S T E S S E T S

The campus community biweekly
October 2, 2003, vol. 3, no. 14

California Institute of Technology
Pasadena, California 91125

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Published by the Office of Public Relations