Letter from the chair, Professor Bob Tatum

Our March newsletter described early results of the five-year planning process that we completed this year. This process resulted in plans to position the department to create and disseminate new knowledge that will help our field meet rapidly increasing societal expectations regarding both the natural and the built environments. Recent activities to implement our plan have focused on defining faculty positions related to environmental and water studies, structural engineering and geomechanics, and design-construction integration. The new environmental faculty member will contribute to solving problems in one or more of the following general areas: environmental transport, pollution prevention and green chemistry, environmental impacts of energy exploration and generation, and environmental informatics. The positions related to the built environment will add faculty members with interests in structural and geotechnical engineering, design-construction integration, performance-based engineering, hazard assessment and risk management, or construction engineering and management.

With generous support from the Packard and Ford Foundations, the first phase of renovations for the Environmental Engineering and Science Laboratory were completed in July. This included space for a new Stanford Biofilm Research Laboratory, established by Professor Alfred Spormann and including researchers from several other departments and schools on campus.

Our excitement about future research directions to help solve key societal problems does not lessen our commitment to undergraduate and graduate education. The ongoing process of course assessment essential to maintain an accredited undergraduate program is bringing important benefits for our over 30 undergraduate courses. This year Professor Greg Deierlein offered a new freshman seminar course to describe challenging projects that illustrate basic principles of structural engineering and involve students in a competition to build and test a model bridge. Professor Craig Criddle offered a new course on process design for environmental biotechnology. In this course student teams characterize contaminants in wastewater, design and operate pilot-scale units, and develop a full-scale design. Faculty in our four programs also offer over 90 graduate courses, many linked to ongoing research. As further described in this newsletter, our students continue to win recognition for academic accomplishments and commitment to education. This edition of the newsletter also recognized the major role of our long-term staff who provide essential support for our teaching and research.

Involvement in professional activities and interaction with leading professionals and firms in industry is another priority for our department. This includes active faculty membership Continued on page 4
Alfred Spormann received the Charles Lee Powell Foundation Research Award for 2000-02.

The Medal of the Seismological Society of America was awarded to C. Allin Cornell for outstanding contributions in seismology and earthquake engineering.

Boyd Paulson, the Charles H. Leavell Professor of Civil Engineering, was one of two academics among ten new members from industry, academia, and government who were inducted into the National Academy of Construction in August 2001.

During the months of May and June, Ronnie Borja spent his sabbatical at the Polytechnic University of Catalunya in Barcelona with the finite element group of CIMNE (Center for Numerical Methods in Engineering). During this time, he also gave talks on material instability at the University of Castilla La Mancha in Ciudad Real, at the Polytechnic University of Madrid, and at the Center for Public Works Studies and Experimentation (CEDEX), also in Madrid.

Leonard Ortolano spent last autumn quarter at the Institute Nationale Polytechnique de Toulouse in southwestern France. He offered a course that compared air and water pollution control strategies in France and the United States. He also conducted research on the role of French water agencies in river basin planning and management. During the spring quarter, Ortolano saw results of a previous stay in Europe. A series of lectures he had given on environmental impact assessment at the Instituto Universitario di Architettura di Venezia in 1998 were translated by his colleague, Prof. Virginio Bettini, and the lectures were published last spring in the following Italian textbook: Bettini, V., Canter, L.W., and L. Ortolano, Ecologia dell’Impatto Ambientale (UTET Libreria, Torino, 2000).

Lynn Hildemann’s main extracurricular activity this summer has been playing with Samuel James Moore, her new baby boy. He arrived on May 25, at 8 lbs 9 ozs.

The Eugene L. Grant Award for Excellence in Teaching was awarded to Prof. Stephen Monismith at commencement this year. This award alternates between the faculty members of the Department of Civil and Environmental Engineering and the Department of Management Science and Engineering. The winners are selected by members of the current and most recent senior classes in the respective departments. Past winners in CEE have been: Professors Borja, Koseff, Hildemann, and Fischer.

Professors Peter Kitanidis and Stephen Monismith have been appointed professor, by courtesy, of the Department of Geological and Environmental Sciences. Professor David Freyberg has been appointed as a senior fellow, by courtesy, at the Institute for International Studies, and associate professor, by courtesy, of the Department of Geological and Environmental Sciences.

During spring quarter 2001, Gil Masters served as acting director of the Stanford Japan Center in Kyoto. In addition, he taught a course, Energy and Climate Change: The Japanese Approach. He is returning for his final quarter of active duty this fall, during which time he will teach his course, Electric Power: Renewables and Efficiency - a topic that has certainly been in the California news lately. An energy symposium will be held on the weekend of November 10, 2001 as part of a retirement celebration honoring his 28 years of teaching at Stanford.

Peter Kitanidis was elected a fellow of the American Geophysical Union.
The Honors Committee of the International Insurance Society has awarded Prof. Emeritus Haresh Shah the John S. Bickley Gold Medal for Excellence Award. The award is given to someone who has made a singularly creative or innovative contribution to insurance thought, practice or education, which has been adopted by the industry or society.

Haresh’s main activities are serving on the boards of various companies. He is chairman of the board for RMSI, Pvt. LTD, Buildfolio, Inc., World Seismic Safety Initiative, and GeoHazards International. He serves on a further four boards.

James Douglas and his wife celebrated their 60th wedding anniversary in Salmon, Idaho on 22 July 2001. Congratulations!

E. Y. Hsu reports that he enjoys reading and playing chess in his free time.

Jim Gere can’t stop writing those books - last year he published a fifth edition of Mechanics of Materials and wrote an historical account of his great-grandfather’s experiences in the American Civil War (1862-1865). For several years, Jim has organized an annual lunch meeting of all retired CEE faculty. These gatherings, held at the Stanford Faculty Club, have been well attended and much enjoyed by the participants. In June, Jim and his wife Janice sold their house on the Stanford campus and moved to a nearby retirement community. Jim has an office there and continues his writing.

Hank and Polly Parker have moved from their former digs on Kingsley Avenue in Palo Alto to a condo on campus at Peter Coutts Circle. They enjoy their new smaller space except there is not enough room for Thanksgiving dinners for 75 students and friends.

Hank makes up for the lesser amount of yard care by going to their farm in New Hampshire to take care of his orchards (maple and apple). They have been spending the summer there and Hank makes maple syrup in the months of March and April, spending many days on snowshoes. Unfortunately, this last winter was a poor one for maple syrup production as the temperatures were not conducive to sap flow. Good sap flow requires cold nights (below 25˚F) and warm days (above 40˚F) and fair weather. This past spring the temperatures did not do the proper “yo-yo.”

He reports that he had a great year for apples with the best crop yet. He shares his apples with friends, including deer, moose, and bears. The only problem is the bears tend to destroy the trees as they climb up to pull down the limbs to get to the apples. He has to strip the apples off of the trees before he leaves to keep the bears on the ground.

Paul Teicholz has had two weddings in the family recently. His oldest son Marc married a woman from Russia that he met while playing the guitar at a concert in Khabarovsk.

His middle daughter Nina was married on the beautiful Greek island of Hydra. She met her husband, of Greek heritage, in New York. Everyone enjoyed the wedding in Greece.

John Fondahl, Charles H. Leavell Professor, Emeritus was inducted into the National Academy of Construction in August 2001.
On April 6, 2001 the department hosted the second annual Shah Family Lecture. Our guest speaker this year was Professor Emeritus Luis Esteva, who gave a talk, “Towards Optimum Risk and Reliability Levels for Performance-Based Seismic Design.” Professor Esteva, the former associate director (1970-77) and director (1982-91) of the Institute of Engineering and former dean of science (1991-93) at the National University of Mexico, is the author of numerous publications on earthquake engineering, seismic hazard and risk analysis, and structural reliability. He has participated in the formulation of building codes and seismic regulations for Mexico and other countries. Since 2000 he has been a foreign associate of the National Academy of Engineering in the US. He is also an honorary member and president-elect (2002-06) of the International Association for Earthquake Engineering.

The Shah Family Fund was established in 1995 to provide annual fellowships for students in civil engineering; an annual prize for an outstanding staff member in the School of Engineering; and an annual distinguished lecture on catastrophic risk management and related areas. Dr. Haresh Shah is professor emeritus and former chairman of the Department of Civil and Environmental Engineering at Stanford University. He is a founding member of Risk Management Solutions, Inc. and one of the leading experts on probability and reliability theory.

Professor Esteva will be at Stanford during the 2001-02 academic year as the Shimizu Visiting Professor.

VISITORS

Professor Greg Ivey, from the University of Western Australia (UWA), will be at Stanford as the Shimizu Visiting Professor for 2000-01. Due to the difference in the term of the academic year his visit will begin in December 2001. Greg plans to interact with Jeff Koseff, Joel Ferziger (ME), Bob Street, and graduate students in the Environmental Fluid Mechanics Laboratory, and to develop long-term interactions with the CEE department and the Centre for Water Research at UWA.

Professor Adrian Law from Nanyang Technological University in Singapore is here as the UPS Foundation Visiting Professor 2001-02. He will lead a seminar on outfall diffusers and coastal transport as part of his professorship. During his visit he will help with the continued development of the Stanford-NTU collaboration.

Professor Jerome F. Hajjar of the University of Minnesota was at Stanford for a portion of the 2000-01 academic year as the UPS Foundation Visiting Professor. During his stay his research focus was in the area of nonlinear behavior of steel and composite steel/concrete frame structures subjected to seismic loading. He interacted extensively with Greg Deierlein, and periodically with Helmut Krawinkler, Allin Cornell, Kincho Law, Ronnie Borja, and several other Stanford faculty.

LETTER FROM THE CHAIR, CONT.

Continued from page 1

on many professional committees, five industry affiliate programs that bring members to campus for meetings and special seminars, the visiting committee that provided valuable input to our planning process, and our alumni who provide feedback regarding their experience that is very valuable for our research and teaching. This newsletter describes each of these activities, along with some of the recent recognition that our faculty have received.

We hope you will enjoy keeping up with the department through this newsletter and give us feedback about how to help you remain involved.
This past winter quarter, Prof. Greg Deierlein offered a new freshman seminar course, CEE80N - Structures: Where Form is the Function. Intended to motivate and introduce students to structural engineering, the course features structural engineering case studies and field trips to local landmarks - including the recently completed San Francisco International Airport Terminal. The course culminated in a competition to design, build, and test a model bridge constructed of spaghetti and epoxy. After many long nights of construction and many tubes of epoxy, shown here are some scenes from testing day.

How many CEE’s does it take to test a spaghetti bridge? At least four, according to CEE’s Bob Brown (lower foreground) and Prof. Helmut Krawinkler who are shown here with course assistant John Castagnoli (foreground) and freshman K.C. Lukens (background).

His enthusiasm for structures infectious, Professor Krawinkler delights in pointing out that the laws of equilibrium are equally valid whether one is designing with steel or spaghetti!

Freshman Katherine Hoffman inspects her bridge just prior to testing

Peter Bernheim (and his bridge) won first place in the competition for a combined rating of strength/weight ratio, structural design, and aesthetics. His prize? Dinner at Buca Di Beppo - a Palo Alto pasta place.
1940s
Donald F. Griffin, Sr. (AB 1934, Engineer 1944) is still looking good at the age of 91 due to his participation in church prayer groups and attending parties. During his career he worked for the National Park Service; the California Division of Highways; National Resources Planning Board, in the executive offices of the president; US Naval Research Center, as a consulting civil engineer. During the war he taught at Stanford, and he was an associate professor of civil engineering at USC for ten years. He was recognized as an outstanding engineer in research by the Engineers Joint Council in 1970. He and his wife Clara were married in Stanford Memorial Chapel by Dr. Trueblood on March 18, 1944.

1950s
Donald L. Kafka (BS 1957) is the president of Wildon Builders in Florida.

1960s
Bennett L. Raffin (AB 1938, MS 1964) was a partner and executive vice president of Rothschild & Raffin General Contractors from 1951 to 1974. He then moved to Swinerton & Walberg, Builders as an executive vice president until he retired in 1985. He will celebrate his 84th birthday soon. § Eduardo J. Curiel (MS 1967) had his own consulting firm in Venezuela for twenty years before deciding to do some traveling. For the past six years he has been an international engineering consultant in Barbados, Argentina, Chile, and Bolivia. He is now a principal engineer at Kennedy/Jenks Consultants in San Francisco.

1970s
Maurice J. Ducarpe (MS 1970) retired from the Corps of Engineers in 1991 after 37 years. He has worked with several consulting engineers since then, and is presently working on a management contract for the Seal (drainage) Program - approximately $400 million - for Jefferson Parish, California. § Robert C. Lesuer (MS 1972) made a career change in the early 80’s. He obtained an MBA from the Wharton School at the University of Pennsylvania and is now involved in human resources consulting, predominantly for energy/utility companies. He would love to hear from old friends at: lesuerb@towers.com. § Dennis B. Warner (Engineer 1968, PhD 1973) spent 12 years in Europe as head of water supply and sanitation for the World Health Organization in Geneva. He and his wife have returned to Falls Church, Virginia where he continues to work as an independent consultant with international organizations and NGOs. § Vladimir Gorescu (MS 1976) started his career in Brazil, where he was responsible for engineering and construction of infrastructure and energy projects. He received an MBA from Getirlio Vargas in São Paulo, Brazil. He moved to Houston in 1993 and is currently working for ENRON as a manager of worldwide projects. § Robert Card (MS 1977) has been appointed as under secretary of the US Department of Energy. After graduating from Stanford he worked for CH2M Hill for 27 years as a director, senior vice president, and president; and as CEO of Kaiser-Hill Company. § David R. Jones (MS 1978) left Brown and Caldwell Environmental Engineers after 17 years and has joined CH2M Hill as a vice president, leading their northern California water/wastewater business initiative. He is based in Sacramento and will serve on the company’s southwest water regional management team.

1980s
Steven G. Geraghty (MS 1982) is living in Fairbanks, Alaska. § Ken Vandroff (MS 1982) spent 15 years with a large Bay Area general contractor before becoming a partner at HiTech Construction Management and Design, Inc. He focuses on biopharmaceutical design/build construction projects. § Luis Macias-Chapa (MS 1978, Engineer 1981, PhD 1985) is working for Pemex Exploration and Production in Mexico. § Achyut Vinayak Wedpathak (MS 1985) retired in 1997. § Colonel E. A. Charlie Hart (MS 1988) and his wife Mary (Bauer) (MS 1987) met as graduate students in the CEM program and now have two sons. Charlie’s work has taken him to Haiti, Bosnia, Italy, and Albania, and he is now working for the Army Corps of Engineers. § Heidi Nepf (MS 1988, PhD 1992) received MIT’s highest teaching award - a ten year MacVicar Fellowship. She is expecting a second child in September. § After leaving Stanford, Kerem Kusi (MS 1989, MBA 1997) worked for Intergen, leading the development of three power projects in Turkey. § Gudrun Olafsdottir (MS 1989) is working for VST Consulting Engineers Ltd. in Iceland.

1990s
Jorge Abdel-Musik (MS 1991) has two sons and is the general director of Hardin International. § Cem Nikravan (MS 1991) worked in Turkey, Saudi Arabia, Pakistan, United Arab Emirates and Turkmenistan before landing in Istanbul as the general manager of a real estate development company. He also lectures part time at Bogaziçi and Yeditepe Universities. § Johnny Lin (MS 1992) is a visiting fellow at CIRES/University of Colorado in Boulder. § Sascha M. Retailleau (MS 1993) worked in Boston and Chicago before returning to Stanford for a second master’s degree. § Frank

Continued on page 7

2000s
While pausing from her PhD work, Karletta Chief (BS 1998, MS 2000) is serving as Miss Navajo Nation 2000. Helene Kubler (MS 2000) is an environmental consultant for RMC in San Jose, California.

Commencement was held on June 17 in Memorial Auditorium and several students were honored with special awards. To graduate with distinction a student must be within the top 15% of their major and the top 15% within the graduating class as a whole. Students graduating with distinction were:

Michael Bryce Whitaker
Grace Masako Yamamoto

Two students were elected to the Phi Beta Kappa Honor Society. Nominations are based on overall quality of work performed in the major, awards for outstanding work in a particular class, grants to conduct thesis research, or participation in a departmental honors program. The students receiving this honor were:

Michael Bryce Whitaker (elected as a junior)
Grace Masako Yamamoto

To graduate with honors a student is required to complete a thesis that is presented to a panel of three faculty. Two students graduated with honors this year:

Margaret Montgomery
Kelly Naylor

Each year the Schools of Humanities and Sciences, Engineering, and Earth Sciences present awards for outstanding teaching by Stanford TAs. Two civil and environmental engineering PhD students were honored this year with a Centennial TA certificate and a $500 prize. They were invited to a luncheon at the Faculty Club honoring all the Centennials TAs, and their names were announced at the commencement ceremony. The CEE students so honored were:

Jeremy Bricker
Robert Canales

Stanford undergraduates must pass a writing-intensive course in their major as part of the university’s writing requirement. The university honors six students with the Hoefer Prize for Exceptional Writing. Their instructors also receive awards. John Haymaker, a PhD student in the construction engineering and management program, taught the CEE writing-intensive course this year and was awarded the prize for his mentoring of Amy Marietta, a senior in engineering.

The San Jose branch of ASCE held an essay contest and awarded CEE students Christina Cho, Jed Dolson, Daniel Kwon, and Eileen Prencke a scholarship and one-year ASCE membership. The subject of the 1-page essay was, “How do you see yourself helping to solve societal issues in your career as a civil engineer?”

One of the Lloyd W. Dinkelspiel Awards was given to co-terminal student Christopher J. Thompson, a senior majoring in electrical engineering and a master’s student in CEE. Thompson lead the residential education program in Roble Hall, “where he served as a role model for fellow staff and students”; for being a head house host during Stanford Admit Weekend; and “for sharing his intelligence, maturity, energy, and commitment to liberal arts learning.”

Congratulations to all!
The master builder’s atelier in the information age is Dr. Renate Fruchter’s vision behind the integrated research and curriculum in architecture/engineering/construction (A/E/C) global teamwork (CEE222/122). This program was established in 1993 and has evolved from an experimental Stanford class into a global teamwork learning environment. Its current goal is to become a world leader in A/E/C global teamwork. Its mission is to educate the next generation of professionals who know how to:

- team up with professionals from other disciplines, and
- leverage collaboration and information technologies to produce higher quality products, faster and more economically.

The A/E/C master builder’s atelier, i.e., the PBL Lab and A/E/C global teamwork program, is based on a PBL pedagogical approach, where PBL stands for Problem-, Project-, Process-, People-Based Learning™. The objectives of the A/E/C global teamwork course and the PBL Lab are to develop, test, deploy, and assess radically new work spaces and information technology processes, learning/work culture and approach for multidisciplinary, collaborative, geographically distributed teamwork.

The core atom in the A/E/C global teamwork course is the A/E/C team. One of the innovative features of the A/E/C global teamwork is represented by the role each of the participants plays:

- undergraduate students play the role of apprentice,
- A/E/C graduate students play the role of journeyman in A/E/C teams,
- faculty members and researchers play the role of master builders,
- industry representatives play the role of mentors, owner,

and sponsors.

2000-01 represents a milestone year for the eighth generation A/E/C global teamwork course. Twelve teams were created from the 43 students representing ten universities worldwide (20 students from Stanford, and 23 students from other university partners) – USA: Stanford University, University of California at Berkeley, University of Kansas, Georgia Institute of Technology; Europe: TU Delft in the Netherlands, ETH Zurich and FHA in Switzerland, Bauhaus-Universität Weimar in Germany, University of Ljubljana in Slovenia; Asia: Stanford Japan Center, Kyoto. The aim was to offer the students an authentic project-based learning experience. Students were challenged to cross four chasms: A/E/C cross-disciplinary project-based teamwork, use of information and collaborative technology, team coordination over multiple time zones, and culture. Each team was geographically distributed over two to three time zones. The PBL Lab’s computational infrastructure offers a wide spectrum of information and collaboration technologies, such as, videoconferencing, video streaming, Web-based collaboration applications, team discussion forums, 4D-CAD, Web project group spaces, Internet 2, wireless and mobile infrastructure.

The A/E/C global teamwork course starts in January with a kick-off event that brings all the students, faculty, owners, and mentors to Stanford. During that time students engage in team building exercises, meet their owner, are

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introduced to the project and basic collaboration technologies. After the kick-off all students go back to their campus and for five months learn and work in cyberspace. A half-way milestone is the winter quarter concept development presentation event that takes place in cyberspace via videoconferencing and application sharing. Students, faculty, and mentors experience presentations and discussions of projects in a global environment. This year we had some industry mentors connect to this event from the trailer on their construction site, bringing to the class an authentic flavor of the construction industry. The A/E/C global teamwork course culminates with the final team-project presentations in May, when all the students, faculty, owners, and mentors come to Stanford to share their products, processes, experiences, lessons learned, and to celebrate the hard work and the end of the PBL journey. For a complete view of the eight generations of A/E/C projects please visit the project gallery on the Web: http://pbl.stanford.edu.

An example of an A/E/C global teamwork project: Pacific 2001 - Crystal Lang - architect from UC Berkeley, Robert Wright - structural engineer from Stanford, Edgar Leenen - construction manager from TU Delft, Will Clift - apprentice from Stanford Japan Center, Kyoto, Robert Alvarado - owner, and industry mentors interacting in a global environment
Diantha Stensrud has been at Stanford for 15 years. She began her career in the Department of Pediatrics, where she worked for ten years. Five years ago she transferred to CEE and has enjoyed working with the interesting faculty and students; she is happy to be here in this challenging atmosphere.

Scott Nelson has been at Stanford for twelve years, all of them in CEE. In the summer of 1987, while still in school, he worked at the Blume Center. He liked it so much he decided to come back full time in May 1989, and has been here ever since.

Jill Nomura has been helping the EFMH program run like a well-oiled machine for eleven years and counting. She and one of our Stanford alums, Derek Fong, are getting married next year and plan to live in Santa Clara.

On April 16 and 17 the department hosted a committee comprised of members of academia, government, and industry charged with the task of reviewing our department’s current activities and plans for the future. This prestigious group met with faculty, university administration, and CEE undergraduates and graduate students for two days of hectic presentations, questions, and fact-finding meetings. The department would like to thank all of them for their diligence and attention. The committee members were:

Dr. Richard A. Anthes, president, University Corporation for Atmospheric Research
Prof. Emeritus Norman H. Brooks, California Institute of Technology
Prof. Randall J. Charbeneau, University of Texas, Austin
Prof. Robert D. Hanson, University of Michigan
Prof. Chris Hendrickson, Carnegie Mellon University
Prof. Bill Iwan, California Institute of Technology
Rear Admiral Michael R. Johnson, United States Navy
Mr. David D. Kennedy, Kennedy/Jenks Consultants
Dr. Robert P. Kennedy, RPK Structural Mechanics Consulting, Inc.
Mr. Scott Lynn, CEO, Flatiron Structures Co.
Prof. Jerald L. Schnoor, University of Iowa
Ms. Catherine Vogel, SERDP/ESTCP cleanup program manager, US Department of Defense
The Alumni News Update is an important part of all our newsletters. Please help us by filling out and sending the questionnaire below, and include a photo if you have one! We are anxious to stay in touch. Return your comments via fax (1-650-725-8662), or mail to: CEE Newsletter, Department of Civil and Environmental Engineering, 380 Panama Mall, Stanford University, Stanford, CA 94305-4020. The information may also be submitted online via the Web at http://www-ce.stanford.edu/alumninews.html

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Visit our department Web page at http://www-ce.stanford.edu, or send e-mail to editor@ce.stanford.edu.

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