

UNIVERSITY OF RHODE ISLAND ENGINEERING

NEWSLETTER

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Fall 2001/Spring 2002

Top Civil/International Engineering Program Student -- Dara Swanson



Leo Mainelli, Dara Swanson

Dara Swanson of North Kingstown is the top civil engineering student in her class, and a member of the Spanish IEP. Currently, she is in Zaragoza, Spain, enjoying her fall semester of class work, and planning her internship for the spring semester. She will return to URI in the fall of 2002 to complete her last year of studies.

Dara has always had a wide variety of interests including math, architecture, Spanish, and the piano. She was a top student at North Kingstown High School, and when Dean Richard Vandeputte visited the school and spoke of the Spanish IEP, she viewed it as an opportunity to combine most of the subjects she liked into one course of study. Dara elected to attend URI because of the IEP Program, because she believes URI is a very good school, and because she received a Centennial Scholarship. The IEP enabled her to continue Spanish, which she hopes to use in her career, while civil engineering enabled her to use her math skills and is related to her interest in architecture.

In addition to the Centennial Scholarship, Dara has received many other awards, including...

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Alumni and Faculty Celebrate Achievement at Fourth Annual Engineering Awards Banquet

More than 190 guests gathered to see distinguished URI alumni and faculty receive awards at the fourth annual Engineering Alumni Awards Banquet, on October 26, 2001, at the Foxwoods Boulder Hills Golf and Country Club in Richmond, R.I.

Presided over by College of Engineering Dean Thomas Kim, the event celebrated the achievements and contributions of more than 20 URI alumni and faculty.

Henry Nardone '43, presented the 2001 Excellence Awards to **Dr. Felix J. Pierce, '55** and **Daniel M. Viccione, '61, '70 (Ph.D)**. Dr. Pierce was honored for extensive teaching, university service, and research in mechanical engineering during his 40-year career. After graduating from URI with a B.S. in engineering, Felix obtained a



Rob DeSantis, David Brook, Jim Dolce, George Geisser, Jr.

master's degree and Ph.D from Cornell University, where he began teaching as an instructor, and was later appointed assistant professor. In 1966, he joined the faculty at Virginia Tech as associate professor, was promoted to professor in 1970, served as associate dean of the graduate school from 1968-70, and became professor emeritus in 1998.

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Fish and Chips



Dr. Godi Fischer

When professors of different departments get together to talk, interesting things can result. Consider the case of Dr. Godi Fischer, professor of electrical and computer engineering at URI. A casual conversation with a colleague from the department of fisheries, animal and veterinary science resulted in two fascinating research projects, one of which Fischer has been working on since 1997. When colleague Conrad Recksiek mentioned that mortality rates of the Atlantic salmon appeared to be linked to the ocean's climate...

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A Decade of Accomplishments



New Chester H. Kirk Hall Dedicated

- a) Top l-r: Edmund Marshall, Charles Billmyer, Henry Nardone, Dean Kim, Ralph Browning, Ralph Lux; Bottom l-r: Professors Stephan Grilli, Raymond Wright, Arun Shukla and Hamouda Ghonem: Distinguished Engineering Professor (DEPP Committee and 1996 DEP Appointees)
- b) Charles Billmyer '49 Retirement Reception
- c) Governor Almond, Simon Ostrach '44
- d) Chester Kirk Building Progress Briefing, Provost Swan
- e) Construction of Chester Kirk Building
- f) Kendall Moulthrop
- g) Henry Nardone, EAC Chair
- h) Chester and Heidi Kirk at dedication ceremony
- i) President Carothers, Lisa Pruitt '88, Provost Swan
- j) Gus Lusi '47, Jack Chiaverini '47



FROM THE DEAN'S DESK

Thank You and Farewell

I am deeply honored and very pleased to have had the opportunity to serve the University of Rhode Island College of Engineering as its sixth dean for the past eleven years. Now the time is near for me to step down and return to the classroom.

To all engineering alumni and friends of the College, I express my deepest gratitude for your support and encouragement during my tenure as dean. It has been the most rewarding and proud eleven years of my thirty-four year career at the University of Rhode Island as a teacher, as a researcher, and lastly as an administrator.

When I wrote my first article in the inaugural issue of the *College of Engineering Newsletter* (Volume 1, No. 1) in the Fall of 1994, I described the diverse and vigorous challenges and opportunities the College would be facing in a new century. The challenges included the change, urgency, and efficiency in engineering education to reflect globalizing technology and commerce. My vision for the College was to build upon its existing strengths and relevancy, and to focus on areas of emerging technologies and growing significance. Today, many of my goals and objectives have been realized.

I am happy to report and share with you highlights of the major accomplishments and progress the College has made during the last decade. As a result, our students are better prepared for the challenges of the new millennium.

• **College of Engineering Today:** Six academic departments offer B.S., M.S., and Ph.D. degree programs. Undergraduate enrollment has increased to 890 with SAT median of 1200 for incoming freshmen, '05.

• **ABET Accreditation:** B.S. in Chemical, Civil, Computer, Electrical, and Industrial, Mechanical and Ocean Engineering, and M.S. in Manufacturing Engineering are accredited to 2007.

• **Capital Development Campaign:** Raised \$23 million in gifts and pledges to fund 43 new scholarship endowments, the new Chester H. Kirk building, new laboratories, and endowed chairs and professorships.

• **Endowed and Distinguished Engineering Faculty Appointments:** Appointed two endowed professors and one endowed chair. Appointed seven Distinguished Engineering Professors (DEP).

• **Construction of New Engineering Complex:** Constructed a new 24,000 sq. ft. engineering complex, the first major College of Engineering building built since 1966, named Chester H. Kirk Center for Advanced Technology, housing the new Engineering Computer Center, the Cherry Auditorium, and ten advanced technology laboratories.

• **International Engineering Program:** Enhanced and expanded the 1992 ABET Award-winning, nationally renowned German International Engineering Program (IEP). Introduced French IEP in 1994, Spanish IEP in 1998, and a student/faculty exchange program with Braunschweig University.

• **Diversity:** The new diversity initiative of the College has been implemented. Continuing efforts to enhance diversity in all aspects of the College's operation are yielding positive results.

• **Awards:**

One of my proudest and most worthwhile accomplishments was to implement the engineering alumni and friends of the College recognition ceremonies. We established the Hall of Fame and Founders Club induction programs in 1997, recognizing to date more than 50 engineering alumni for their lifelong accomplishments and contributions in engineering, business, and entrepreneurship. Fifteen alumni have also been recognized by annual engineering excellence and distinguished service awards.

• **COE Newsletter:** Initiated in 1994, the Newsletter has been a valuable vehicle of communication between the 12,500 engineering alumni and the College of Engineering.

I am also pleased to share with you some of my professional accomplishments as an engineer during the last decade. I was elected Fellow of the American Society of Mechanical Engineers, and elected to the Board of Directors and Vice President of the American WaterJet Technology Association. I also had the honor of receiving the 1995 Advanced Technology Award from the American WaterJet Technology Association, and the 1994 Best Paper Award by the British Hydro-



dynamic Group at the 1994 International Conference on Water Jetting.

I have thoroughly enjoyed every day of the last eleven years, working and teaming with good minds and quality professionals. I would like to express my heartfelt thanks and appreciation for your loyalty and support during my tenure as dean. Your continued support of the College of Engineering under new leadership will be greatly appreciated.

Thank you and best wishes.

With sincere regards,

Thomas J. Kim
Dean
January, 2002



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Heidi Kirk-Duffy A Pillar of the International Engineering Program

Heidi has been one of the driving forces of the International Engineering Program (IEP) since its inception in 1988. She played a significant role in founding the program according to John Grandin, its director and professor of German at URI. As a native of Germany, she used her extensive contacts overseas to place URI students in internships with German companies. "The whole program lives and breathes with these partnerships," according to Grandin.

Born in the Dusseldorf area of Germany, Heidi moved to the United States at the age of 26. She married the late Chester



Heidi Kirk-Duffy

photo by Nora Lewis

Kirk, founder of Amtrol Inc. of West Warwick, and joined him in supporting several URI programs. Without her enthusiastic support the IEP would have floundered, said Grandin. In addition to helping secure student internships, she helped raise money from foundations and private industry to supplement URI and state funding.

Heidi's efforts have not gone unnoticed. In a ceremony at the RI State house, the German government bestowed on her its highest civilian award: The Order of Merit. In addition, in 1995, the University of Rhode Island granted her an Honorary Doctoral Degree for her years of service to higher education and her strong commitment to the concept of preparing students for the global work force.

Heidi is also active on the Board of Directors of the Rhode Island Philharmonic, and was a member of the Board of Directors of the Providence Performing Arts Center.

She is a person of tremendous talent, dedication and effectiveness and a true friend of higher education.

Today the IEP has graduated over 85 students and currently has 180 students enrolled. Thanks to the efforts of Heidi and others, it has become a model for similar programs around the country.

Engineers Tee Up Golf Outing



photo by Nora Lewis

Al Raposa, Rob DeSantis, Don DeSantis

The College of Engineering held its first golf outing in conjunction with the annual Alumni Awards Banquet. An enthusiastic group of individuals, led by some of the award recipients and their friends and family, played 18 holes at the Foxwood Golf Club.

The outing began with a box lunch and the presentation of a URI Engineering hat to each participant, to identify our group from the other players on the course. There were some very good golfers in the field who scored well on the challenging Foxwood layout.

The best part of the day was the interaction between participants. The tee time of 12:30 enabled everyone to play with time to change and arrive at the banquet cocktail party. All players attended the banquet that evening and continued the camaraderie and exaggerated stories of the afternoon. At the banquet each participant was given a URI bag with a golf shirt and a sleeve of balls to remember the day.

Efforts will be made to arrange another golf outing earlier next year, even if it requires separating it from the day of the banquet. If you are willing to help with preparations, please contact the Dean's Office.

College of Engineering Earns Re-Accreditation

September 24, 2001, all eight academic programs in the University of Rhode Island College of Engineering were reaccredited by the Accreditation Board for Engineering and Technology (ABET). This was the first time in over 30 years that all eight programs were unconditionally accredited at one time. "We received a clean bill of health with no strings attached," said Thomas Kim, dean of the College of Engineering.

The accreditation process is an arduous one. Each academic program first prepared a lengthy self-study report. This was followed by a two-day visit by a committee of 11 reviewers, who evaluated each program, funding, budgeting, personnel, enrollment, and classroom and laboratory facilities.

The final report issued by ABET in August highlighted three of the College's initiatives as especially noteworthy: URI's award-winning International Engineering Program was cited as a particularly strong and innovative program in which students major both in engineering and a foreign language, live in a special residence hall on campus, and take a year abroad for both study and work experience.

The College was also recognized for its "very active and successful external fundraising efforts to supplement state support." In addition, the accreditation review committee called the College's exemplary exit interview process, conducted for all graduating students, "a significant assessment tool."

Engineering Advisory Council and IEP Advisory Board Meetings in Spain

At the 1999 Engineering Advisory Council meeting, it was agreed to hold the 2001 meeting in Europe, jointly with the International Engineering Program Advisory Board. San Sebastian was chosen by the EAC Committee for the 2001 Annual Meeting for its cultural, industrial, and educational attractions. The main purpose of the meeting was to celebrate the IEP for its decade of successful operation and have a chance to explore the newly established Spanish Engineering Program opportunities in European industry.

Meetings began on Wednesday, May 21, with greetings and welcome by President Robert Carothers, followed by Dean Kim and John Grandin, Executive Director of IEP. Other speakers included Paul Nordquist for the EAC and Heidi Kirk-Duffy for the IEP Advisory Board. Dean Luis Zaldua welcomed participants on behalf of San Sebastian University.

The group also had an opportunity to visit two corporations where IEP students enjoy second semester internships. The main product at one facility was automobile seats and

seating adjustment mechanisms. They were able to see the process of automobile seat assembly from early design, raw materials, parts fabrication, final assembly and shipping, with emphasis on just in time manufacturing.

The group also visited the University of Navarra, where the Presidents spoke and exchanged gifts of University pictures and baseball hats with Dr. Carothers. The University of Navarra has a beautiful campus on the edge of Pamplona, where we were graciously received and treated to a wonderful lunch, and toured the campus of almost 14,000 students and 1800 faculty.



At Valladolid University President Carothers, Dean Kim, Dean Knickle and Robert Manteiga finalized another Spanish IEP Partnership

The following day was occupied with a visit to CAF Industries where cars for trains and subways are built for contracts in Europe, the USA, Africa and South America.

At dinner Friday evening, the official part of our meetings and visit to Spain concluded. Some of the group departed Saturday morning to return to Rhode Island. Others went on to Madrid for several days of sight-seeing.

College of Engineering Appoints Four New Professors

Demonstrating its ongoing commitment to delivering an outstanding education to its students and to quality research in the engineering community, as well as strengthening the diversity of its staff, the College of Engineering recently added four highly qualified professors to its faculty. The new faculty members include a woman and an African-American who bring significant research and teaching experience and skills to the school.

Dr. Michael Greenfield was appointed the first Victor J. Baxt Chair and joined the department of chemical engineering as associate professor. He came from the Research Laboratory of Ford Motor Company in Detroit, where he has worked as a technical specialist since 1996. He earned his Ph.D. in chemical engineering in 1996 from the University of California-Berkeley, and B.S. in chemical engineering in 1990 from Johns Hopkins University. He brings to URI extensive research experience on molecular simulation, developing the techniques capable of predicting penetrant gas diffusivity in a glassy polymer. He won the 1994 Sherman-Williams Award in Applied Polymer Science. A Victor J. Baxt chair investiture ceremony is tentatively scheduled in the Fall, 2002 in conjunction with the Engineering Awards Banquet.

Dr. Donna Meyer joined us as assistant professor of mechanical engineering. She comes to URI from Virginia Commonwealth University, where she served as assistant professor in the mechanical engineering department. Prior to Virginia Commonwealth, she worked in the mechanical systems department of ABB Combustion Engineering, Inc., in Windsor, Conn. Currently the principal investigator of a National Science Foundation-funded research project on synovial fluid generation from total joint prostheses. Dr. Meyer has published extensively and is the recipient of several faculty and industry awards. She earned her master's and Ph.D degrees in mechanical engineering from Rensselaer Polytechnic Institute.

Dr. Carl-Ernst Rousseau has done extensive research in the field of mechanical engineering, most recently completing an investigation of intersonic shear failure and failure mode transition during complex preferential paths at the California Institute of Technology. He has taught courses in material mechanics and machine design. From 1989 to 1997, Dr. Rousseau worked at Westinghouse Electric Corporation as a mechanical/structural engineer. He holds B.S. and M.S. degrees

in mechanical engineering from the University of Florida, and a Ph.D from Auburn.

Dr. Frederick J. Vetter joined us from SUNY Medical University as assistant professor of electrical and computer engineering. Dr. Vetter earned his Ph.D. in bioengineering from the University of California, San Diego in 1999. He worked as a systems engineer before earning his M.S. in Electrical Engineering in 1988, and his MBA in 1989 from the University of California, Davis. He is currently completing a postdoctoral position at SUNY Upstate Medical University, studying experimental cardiac electrophysiology. His research includes the interaction between cardiac electrical and mechanical systems, cardiac anatomy and physiology, and scientific and high-performance computing. Dr. Vetter will support the three degree programs--Electrical, Computer, and Biomedical Engineering--in the Department of Electrical and Computer Engineering.

"As the College of Engineering continues to grow and evolve to meet the challenges of the 21st Century, it is important that we continue to expand the breadth and depth of our faculty," said Dean Thomas Kim. "I am pleased to welcome these four highly accomplished, diverse individuals to the College, and expect all the best for and from them."

Spotlight on Business

NAME: SyMech, Inc.

FOUNDER: Jonathan Cook '93

COMPANY DESCRIPTION: San Francisco-based software company.

What started as a senior project turned out to be a career and business for Jonathan Cook who says he has a "wonderful position that enables him to develop technology and meet people throughout the world." Jonathan is the president of SyMech, the company he founded in San Francisco. Through the ingenious software he developed, and the foresight to partner with Pro/ENGINEER, a world leader in CAD software, SyMech software has the potential to be used by 30,000 existing software users, plus other customers to be developed.

Jonathan enjoyed his time at URI and at Pratt and Whitney as an intern for 8 months where he gained valuable experience in industry. As a URI senior, he took a graduate level course in advanced mechanical design with Dr. Olson. For his senior project, he used a parallel motion generator to design a computer keyboard stand, which won the competition for the best senior project in 1993. Without knowing it at the time, this was also to be the germ for the software product and SyMech.

Upon graduation, Jonathan worked at Polaroid in Massachusetts in the Advanced Engineering Group on projects involving kinematics and finite element analysis. Polaroid machinery often operated 24

hours a day, 7 days a week, so it was necessary to develop ingenious solutions to keep the line running. Jonathan developed a solution providing batteries for cameras/film, saving the company \$5M a year, and learned that it pays to take a calculated risk.

Jonathan then obtained mechanism analysis and design expertise at RAND Corporation, Colt Firearms and other leading companies. Throughout this time, work on mechanisms was still being done in the design/build/test paradigm. He believed the design of mechanisms could be improved with a "function first" approach. Recalling his work at URI, and his senior project, Jonathan set out to design software using a patent pending Function First™ approach which eliminates days and weeks of build and test, allowing the designer to define the desired function at the outset and achieve the optimal design in seconds.

Jonathan formed SyMech, Inc. to develop and market his software, and recognized that the process of distributing the software could be facilitated by partnering with a well-known product. He observed that Fortune 500 manufacturing and aerospace companies often use Pro/ENGINEER CAD software, and the owner, Parametric Technologies, was interested in capable partners. They provide an API, (applications program interface), to add value to their program. Seeing this as a good fit with his software, Jonathan established partnership with Pro/ENGINEER, and SyMech software is also available from his own company.



Jonathan Cook '93

SyMech offers a free trial download, marking the first time a Pro/ENGINEER module has been offered in a demo version directly from the Internet. This approach makes the new software uniquely available to engineers and designers worldwide, and anyone can try out the software immediately.

Jonathan has stayed in touch with URI, especially Professors Shukla, Olson, White and Sadd, saying that their help and accessibility has been outstanding. He appreciates the fact that URI's Mechanical Engineering department is still strong in the area of mechanisms.

While many people strive to be excellent at something, Jonathan stresses to his employees that his target and theirs, is to be outstanding. Jonathan's goal is to change the way people design mechanisms. "Mechanisms are everywhere," he says, and he and his wife Jennifer, an attorney and Vice President of SyMech, should have a bright future.

KEEP IN TOUCH

Please keep us informed of your activities. Your response to this informational form is of great interest to us and to other alumni.

Name _____ URI Engineering degree(s) and year(s) _____

Company name _____ Business title _____

Business address _____

Phone _____ E-mail address _____

Home address _____ Phone _____

Recent career news items (use separate sheet if needed) _____

Mail to: Editor, URI Engineering News, College of Engineering, University of Rhode Island, 102 Bliss Hall, 1 Lippitt Rd, Kingston, RI 02881
or Fax: (401) 782-1066 e-mail to: martino@egr.uri.edu

ALUMNI “In Touch”

--News Briefs from COE Alumni--

Civil Engineering

Joseph V. D’Ambra ’66 is a Captain with American Airlines based in New York. He and his wife Patricia are proud grandparents of Lauren Emma D’Ambra, daughter of their son Jeff who is an F-15 Pilot with the U.S. Air Force.

Joseph W. Migneault ’57 earned a PE license in RI, MA, CT and FL, and worked for the Gilbane and Campanella & Cardi Construction companies prior to his retirement in 1997 as Chief Engineer of the City of Cranston. He served 30 years of combined active/reserve military service with the US Army Corps of Engineers, retiring as a Colonel.

Chemical Engineering

Bruce E. Deary ’69 resides in Irvine, Calif. and is Director of Corporate Training and Development for Bender Engineering in Los Alamitos.

Peter R. Duchesneau ’85 is a member of the U.S. Patent & Trademark Office bar. He was named partner of the law firm of Manatt, Phelps & Phillips, LLP and practices environmental law, including litigation, regulatory compliance and transactional matters. He lives with his wife Jamie and newborn son, Jakob in Los Angeles, CA.

Robert J. Silva ’71 is president and owner of Process Engineers & Construction, Inc., in Warwick, R.I. He lives in Narragansett.

Ocean Engineering

Paul La Rosa ’98 lives in Seattle, Washington, where he works for a consulting firm, Hart Crowser.

Shawn M. Smith ’84 is plant operations director for the Nashua School District where he is currently overseeing a \$143-million high school construction project and a \$5-million stadium project. He lives in Milford, N.H.

Mechanical Engineering

Maureen Monte ’81 ’82 (M.S.) is president and founder of Monte Photography, LLC, a photography business whose clients include the Detroit Tigers, Red Wings, La-Z-Boy, Little Caesars, and American Greetings. She previously worked as an engineering consultant for IBM.

William C. Northup ’33 retired 22 years ago from Burndy Corporation, where he was chief quality control engineer. He writes that he is “still going, but not very fast”. Still living independently with wife Mae in Stratford, Conn.

Predrag Radovanovic ’89 moved from Baltimore, MD where he worked as Director of Sales and Engineering for Nitto Engineering Company of America to establish a NECOA Europe sales and service office in Belgrade.

Electrical Engineering

Robert F. Gammons ’42 is retired and lives in Westport, Conn.

Bruce Parkes ’96 is Quality Systems Manager for Optigain, Inc. in Peacedale, RI, a designer and manufacturer of active and passive optical amplifier products for use in the telecommunications industry. He resides in Cranston, RI.

Henry A. Passarelli, Jr. ’54 worked for 33 years at G.E., two years at Training Strategies, Inc., and five years as an instructor of quality engineering at Roger Williams University. He is currently a senior member of ASQ and is a RAB-ASQ certified auditor. He lives in Coventry, R.I.

Industrial Engineering

Scott J. Boxer ’72 was recently promoted to President, Lennox Industries, in Richardson, Texas. He lives in Frisco.

Guy M. Lillis ’54 retired from Hamilton Standard, where he was quality systems manager, and is now president of a business he started two years ago, Manuals for Small Business, LLC. Since starting the business, he has written 25 policy manuals covering labor laws and human resources. Guy lives in Enfield, Conn.

Daniel J. Groben ’86 is a team leader with INLED, a small consulting firm in Greenwich, Conn., and is currently working with Kmart on supply chain improvements. Prior to joining INLED, he was senior director of projects for Swedish Match. He lives in Dothan, Alabama.

Spanish International Engineering Program Flourishes at URI



Yldania Polanco ’02, Dr. Robert Manteiga, Mexican exchange student Sergio Bernal, Dr. Marco Serrato, IEP Dir. John Grandin, Asst. Dir. Kathleen Maher, Dr Rodolfo Torres

URI’s acclaimed International Engineering Program (IEP) has graduated 85 students since its inception in 1988. Originally offering students dual degrees in engineering and German, the

program has expanded in recent years to include Spanish and French.

The Spanish IEP started three years ago with a \$300,000 grant from the Fund for the Improvement of Postsecondary Education of the U.S. Department of Education. Headed by Dr. Robert C. Manteiga, professor of Hispanic studies and comparative litera-

ture, the Spanish IEP has grown rapidly. The success of the Spanish IEP comes as no surprise to its director, Dr. Manteiga. According to him, “Spanish is the fastest-growing language in the

U.S. Graduates of the IEP are fluent in Spanish, and familiar with the way engineering is practiced in the Spanish-speaking countries in which they study. This is a great advantage when seeking job opportunities in today’s competitive environment.”

In addition to studying at universities in Spain and Latin America, students in the Spanish IEP are placed in internships in companies who operate in these regions. URI has established partnerships with companies such as Hilti Espanola, TRW, Ansa Lemforder and Praxair that enable IEP students to further benefit from the program through paid internships abroad.

For more information about the IEP, visit www.uri.edu/iep.

Alumni Profile on Donald Tomkinson '80



courtesy D. Tomkinson

Donald Tomkinson

Donald went from URI to his own venture capital/consulting company in twenty years. Born in Massachusetts, he moved to Maine where he attended high school, then enrolled in URI's Ocean Engineering Program. Two years later, he switched into the Industrial Engineering Program. Dean Kim, who was a professor at the time, mentored him and has remained his friend ever since.

Donald was inducted into Tau Beta Pi at URI and then attended the University of Maine where he earned a Masters in Business Administration.

Texas Instruments in Attleboro was Donald's first place of employment, where as a manufacturing engineer he gained experience, customer contact and supplier exposure. There, he developed and received a patent for a new automatic circuit breaker design. He then took a position in Technical and Sales with Computervision, and moved to Maryland where he has lived since. At Computervision, he and a staff of 100+ developed a consulting methodology to help deliver superior consulting and increase consulting revenue by 50%. He also developed new wiring solutions that automated wiring design, reducing development time by 33%. As Director of World Wide Service at ACTERNA, he acquired a strong foundation in manufacturing, engineering, purchasing and service. At all of these positions, Donald was key to defining and implementing technology based solutions including CAD/CAM, FEA/FEM, Automated Test Equipment, Requirements Management and Customer Relations Management capabilities.

In 1996, Don joined Aspect Development, Inc. (now i2 Technologies), and for four years was a member of their executive team. Most recently he was General Manager of Supplier Relations Management, responsible for strategic sourcing solutions.

He was also a corporate officer and the key field operations officer who directed sales and pre and post sales consulting while the company increased sales from \$20M to \$200M. He refined and implemented a Value Based Sales Methodology that allowed for scaling the organization and repeatable results that were key to Aspect's growth.

At the end of 2000, Don founded a venture capital and consulting company, Sage Ventures, LTD, and has made two investments in early stage companies—one enterprise software and one content company. Several young software companies have also retained Don to refine market position using detailed target customer profiles, develop a defensible value proposition, and implement a value based sales and deployment methodology.

Donald enjoyed his years at URI and believes the small classes in the IE program helped him in his course work and getting to know the professors. The program also gave him a breadth of experience in mechanical engineering and computers, as well as IE. He still stays in close contact and visited the campus twice in the past year.

Working Towards a Smarter Drive in Rhode Island

How traffic moves, and how it can move more intelligently and efficiently, is a subject of great interest to Christopher Hunter, and the object of a current research project he is overseeing. An assistant professor of civil engineering at URI, Hunter has been leading a multidisciplinary effort to develop a system that can provide drivers with information on traffic conditions on their routes, enabling them to make more intelligent decisions when traveling.

The research project, called "Moving Smart in Rhode Island," is funded by the Rhode Island Department of Transportation. Hunter is working with computer science professors Lisa DiPippo and Joan Peckham to develop a prototype that will capture real-time operating conditions data and immediately and automatically convert and disseminate the information to travelers in a user-friendly format.

Peckham and DiPippo, experts in the area of real-time and distributed systems and software and information design, are responsible for the real-time information system design. Hunter, whose expertise is in transportation systems operations and planning, is focused on the travel time/speed algorithm development.

The objectives of the research project are to develop a system where appropriate real-time operating conditions data are captured and developed automatically into a user-friendly format stipulating travel time or speed; to ensure that the real-time information system supports monitoring, warehousing/mining and concurrent access via the Web; and to develop a flexible system that can integrate with and extend the existing and stand-alone systems that RIDOT has in place

While the project has presented a number of challenges, Hunter is confident the team will have a prototype completed soon. In the meantime, he also completed a proposal for another related research project to address the specific problem of reporting traffic anomalies in a



photo by Artie Martino

Dr. Christopher Hunter

timely and efficient fashion to many different types of users using a variety of data sources.

To Hunter, the research process itself is as important as the results: "The project has provided a valuable practical experience in software and transportation engineering for graduate and undergraduate computer science and civil engineering."

Fish and Chips *(cont. from page 1)*

with no reliable way to obtain data to confirm this hypothesis, Fischer was intrigued. He started thinking about an electrical device to help collect the data.

Working with electrical engineering professor James Daly, Recksiek, and a series of electrical engineering graduate students, Fischer began designing an archival temperature monitoring tag to be implanted in the salmon.

According to a paper Fischer co-wrote with Recksiek, Daly, and others, that was published in the *IEEE Journal*, "...temperature and surface effects have been implicated as determinants of growth and survival [for Atlantic salmon]. However, we have limited knowledge of the factors influencing the growth and survival of post-smolts from the stocks originating in North America and Europe. Both aspects of Atlantic salmon ecology could be significantly advanced with the use of data logging tags that would record water temperature during the life of the fish. Knowledge of thermal history during the Atlantic salmon's first sojourn to sea would also be used for ascertaining position and time on the basis of ocean surface temperature distribution."

In attempting to develop a programmable temperature-monitoring device for the Atlantic salmon, Fischer faced two major challenges: The first was to create a solution that could work under an extremely tight power budget, because the device needed to be able to operate on one battery for up to three years (the maximum time the fish sojourn at sea). The other challenge was to create a device small enough not to hinder the fish, but durable

...salmon ecology could be significantly advanced with the use of data logging tags that would record water temperature during the life of the fish....IEEE Journal

enough to withstand the stresses of the harsh oceanic environment. Moreover, because of the high volume of devices required, the cost of production for each could not exceed \$10.

Today, after several years of research and hard work, Fischer has created a prototype chip he will soon begin testing on salmon. If all goes well, the chip then will be produced in volume at a manufacturing plant in California.

The temperature-monitoring chip is not the only marine-related research project Fischer is working on. A year ago, he also began developing an electronic tagging system to track marine animals acoustically. The goal of this project is to equip the animals with archival tags that detect sound signals originating from fixed periodically activated transmitters. The tags would store the exact arrival time of each signal in digital memory, so when scientists retrieve the tags, they can download information into a host computer and compute the distance of the animals at the time of detection relative to each transmitter location. Such a system would be of great value for scientists studying migration behavior, appropriate work for a scientist named Fischer.



Chip size compared to penny

courtesy G. Fischer

...originating from fixed periodically activated transmitters. The tags would store the exact arrival time of each signal in digital memory, so when scientists retrieve the tags, they can download

information into a host computer and compute the distance of the animals at the time of detection relative to each transmitter location. Such a system would be of great value for scientists studying migration behavior, appropriate work for a scientist named Fischer.

Top Civil/International Engineering Program Student Dara Swanson

(cont. from page 1)

ing Phi Eta Sigma, National Society of Collegiate Scholars, Tau Beta Pi, and the Ronald C. Jalbert and Narragansett Improvement Company Scholarships.

While on campus, Dara worked as a peer tutor, helping students in the computer lab with their core engineering skills. She also worked for Dr. Alan Marcus performing structural analysis using Stran 4 software.

Each summer, Dara kept busy as an architectural intern, at Munroe & Associates in Wakefield. In 2000 and in 2001, at Bryant Associates, she conducted traffic

studies for proposed construction, calculated drainage patterns and earthworks, and prepared documents and drawings for use at Town and Planning Board meetings. Dara intends to study for an advanced degree in the future.

Dara's father is Craig Swanson, Ph.D., in URI's Ocean Engineering, and a founding principal of Applied Science Associates in Narragansett, RI.

Dara was preparing to depart for Spain on Sept. 10, 2001. Bad weather prevented her from leaving that day, and as events of Sept. 11 unfolded in New York, she was unable to leave until Sept 17. She arrived safely, and we are confident that with her talent and personality, she will have a great experience in Spain.

Robotics Lab Named for Slain Engineering Alumnus

In 1994, URI's College of Engineering lost one of its best and brightest graduates when Matthew Flores was gunned down in a California parking lot by a still-unknown assailant.

Matthew earned a degree in mechanical engineering from URI in 1990, then served in the U.S. Army in Desert Storm. In March, 1994, he moved to California with his family to begin a career at Applied Materials, Inc., in Santa Clara. Less than a month later, he was murdered.

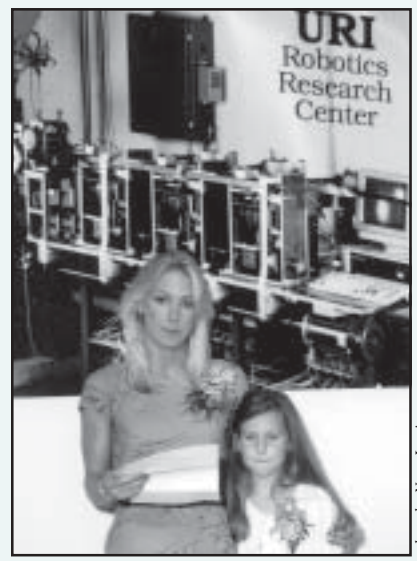


photo by Nora Lewis

Denise and Danielle Flores

An active participant in robotics and automation projects while at URI, Matthew was working at the time of his death on research to design a robotic limb that would be connected to the neurons of the brain and spinal column so amputees and paralyzed individuals could regain motor function.

On July 18, 2001, in recognition of his life and work, URI dedicated the Robotics Research Laboratory in Matthew's memory. Matthew's daughter, Danielle, who was a toddler when her father died, made one of the first donations to the Matthew D. Flores Memorial Scholarship. The scholarship, established by Matthew's widow, Denise, will be awarded annually to a junior or senior with high academic achievement in mechanical engineering, and an interest in robotics or biomedical research.

Concrete Canoe Team Wins Regional Championship Sixth Year in a Row

The civil engineering students at the University of Rhode Island successfully defended their championship title at the ASCE Regional Competition. It is the sixth year in a row that URI students have defeated teams from all other New England universities in this prestigious contest sponsored by the American Society of Civil Engineers.

The host for this year's two-day event, held April 28-29, 2001, was the University of Massachusetts at Dartmouth. The competition included technical written and oral presentations, and display contests during the first day. The second day consisted of two-person men's and women's sprint and distance races, and a four-person co-ed sprint race, all in a concrete canoe constructed by the students. The team's canoe was named *The Islander*,



in tribute to the Ocean State and the unique culture that Rhode Islanders bring to it. The canoe was 21 feet long, 2' 6" wide, weighed 90 pounds and had a hull thickness of 3/8 in.

URI civil engineers were awarded first place by securing 143 points out of the possible 150, outdistancing the second-place team from Northeastern by 20 points.

This year's team members included:

Jim Primeau of North Providence, president of the URI chapter of ASCE; co-captains Julie Walker of Warwick and Dan Szymanski of Harrisville; Elizabeth Andrade, Erin Papa, Dara Swanson, and Joshua Woolley of North Kingstown; James Hall

and Gabriel Vargas of Providence; Inga Lermontov, Brian Stewart and Joe Baker of Cranston; Jeremy George, John Ayotte and David Lowell of Warwick; Charlotte Redner, Newport; Jaklyn Dextradeur, North Providence; Curtis Ruotolo, Smithfield; Samuel Lopes, Pawtucket; Brett Knight, Narragansett; Matt Crowley, Charlestown; Michael Mantell, Rochester, N.Y.; David Capacchione, Preston, Conn.; Scott Herlod, Bloomington, Minn.; Joe Fonseca, Framingham, Mass.; Holly Bailey of San Jose, Cal.; and Karey Long, Stratham, N.H.

Awards Banquet (cont. from page 1)



Felix Pierce, Leo Mainelli, Paul DePace and Dan Viccione

His early work in computational methods and numerical solutions, as well as his experimental research, became internationally recognized. His work has been supported by such agencies as the National Science Foundation, the Army Research Office, the Naval Office of Research, and NASA.

Daniel Viccione received his award for significant work in undersea acoustics. After receiving his undergraduate degree in electrical engineering from URI, Dan worked at Bell Telephone Labs, earned a master's degree from New York University, then served on a special detachment team in Vietnam, where he earned the Army Commendation Medal. Following his military tour, he returned to URI on a NASA fellowship in digital signal processing to attain a Ph.D. He then joined Raytheon Submarine Signal Division before transferring to Naval Undersea Systems Center, where he served

as head of the Computer and Information Services department and program manager for SUBACS Advanced Combat System development. Dan left government service in 1984 to become vice president of engineering at Avanti Communications Corporation, where he guided development of high-speed multiplexors and other communications products. He returned to federal service in 1987 as associate technical director for research and technology at NUSC, Newport. There he received several commendations, including two of Newport's highest awards: the Decibel Award for scientific achievement and the Technical Management Award. Dan has made many contributions to the Navy's R&D efforts in undersea acoustics. In 1982, he completed an 18-month assignment to the Strategic Systems Project Office in Washington, D.C., where he was commended for improvements to strategic submarine

cont. page 11

Awards Banquet *(cont. from page 10)*

systems performance. In 1996, Dan was appointed executive director of the Keyport Division/NUWC, Washington State, where he received the Navy Civilian Service Award for his achievements. Currently, Dan is technical director of the Navy Surface Warfare Center, an organization of 16,000 personnel distributed among eight Navy laboratories throughout the country.

Henry Nardone also presented 2001 Distinguished Service Awards to **Paul M. DePace, '68** and **Leone D. Mainelli, '59**.

Paul's career began at Raytheon during 1968-74; he then spent a year with Electric Boat/General Dynamics. In 1977, Paul became director of URI's Physical Plant, where since 1988, he has remained director of Facilities & Operations/Capital Projects. Paul has served on the Governor's Committee on Employment of Handicapped, State-wide Health Coordinating Council, the Providence Mayor's Office of Community Development, and is currently on the R.I. Building Code Commission. He is also active on numerous boards, including PARI Independent Living Center, which he co-founded in 1972; the US Olympic Committee; Wheelchair Sports USA; and the US Disabled Sports Team, Inc. In addition, Paul is a registered R.I. Professional Engineer; a Warwick Police Constable; a national lecturer on wheelchair sports; a Special Olympics weightlifting clinician; and in 1992, he was Chef de Mission for the Barcelona IX Paralympics. Paul was inducted into the 2000 Wheelchair Sports Hall of Fame. His other honors include the 1995 Providence Engineering Society Humanitarian Award; National Rehabilitation Association Award for R.I., and New England and multi-year National Weightlifting Medalist. Paul has also endowed a URI scholarship to assist students with disabilities.

Leo Mainelli retired from Pratt & Whitney Aircraft in 1999 after forty successful years with the company. From 1959 to 1989, he held various positions in the engineering department, including managing 125 people and a \$25-million budget; compressor and turbine development; hardware procurement; and performance analyses. He then became manager for technical publications for all Pratt & Whitney engine models, working extensively with engineering, production, airlines, airframe manufacturers and regulatory agencies. In 1997, promoted to regional manager for Customer



Henry Nardone, Frank Pierce, Felix Pierce

Service – Europe, Middle East and Africa, Leo directed 10 area managers and 75 customer service engineers. He was responsible for all customer service plans, problem resolution, introductory service and contract issues with nearly 200 airlines. Leo's other activities have included the South Windsor Town Council, Planning and Zoning Commission; the South Windsor Land Trust Association; church choir and education programs; and tennis, golf, skiing, fishing and playing the guitar. Leo has also participated in URI's COBA Career Day, mentoring seniors with their resumes and interview skills. He is currently the associate editor of the College of Engineering Newsletter.

Also at the Awards Banquet, six individuals were inducted into the College of Engineering Founders Club, established in 1997 to recognize alumni of the College of Engineering who represent the entrepreneurial spirit at its best. This year's inductees included:

Gary Bowen, '68

From 1968 to 1981, Gary was employed by Hewlett-Packard as a systems engineer, in various sales and marketing positions, then as regional general manager. In 1981, he left Hewlett-Packard to become a founder of MassComp, a high-performance computer maker, where he served as senior vice president of marketing, sales and customer support. MassComp grew rapidly from five employees in 1981, to 1,500 employees in 1989, while going public in 1984. Gary left MassComp in 1989 when it was acquired by

Concurrent Computer. He then became executive vice president of marketing and worldwide field operations for Wellfleet Communications through its acquisition of Synoptics in 1994. Wellfleet changed its name to Bay Networks after the acquisition. Gary left Bay in 1996 to become the chairman of New Oak Communications. New Oak was acquired by Bay Networks in 1998. Since 1996, Gary has invested in more than 20 start-up

technology companies, and currently serves on the board of directors of Crescent Networks, Apogee Networks, Kaon Interactive, and is chairman of Quantum Bridge Communications. Gary and his wife, Barbara Pieri Bowen, a member of the faculty of Rivier College, reside in Boston, and provide community service and generous philanthropic support to many organizations, including URI.

David E. Brook, '62

David is founder and one of three managing partners in the intellectual property law firm, Hamilton, Brook, Smith & Reynolds, P.C., in Lexington, Mass. The practice has attained global prominence with large and mid-size corporations, start-up companies, national and international organizations, academic research, medical institutions and individuals. It deals exclusively with patent, trademark and licensing work



President Carothers, Jim Dolce, Dean Kim

in chemistry, chemical engineering, materials, biotechnology and medical devices. Previously, David served on corporate patent staffs at Itek, the Atlantic Research Corporation, and E.I. du Pont. He holds a B.S. degree in chemical engineering from URI, a master's in chemical engineering from

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Awards Banquet *(cont. from page 11)*

Northeastern, and a J.D. from Georgetown. David is a board member of several high-tech companies; an adjunct professor at Suffolk University Law School; and is registered to practice before the U.S. Patent and Trademark Office. He is also a member of the Bar in Virginia, D.C., and Massachusetts, where he served as chairman of its Intellectual Property Committee and the Boston Patent Law Association. He is past chair of the Chemical Practice Committee and a current member of the American Bar Association, the American Intellectual Property Law Association, the Phi Delta Phi Honorary Legal Fraternity, and the URI College of Engineering Advisory Council. He and his wife, Arlene, proud parents of two sons and a daughter, live in Acton, Mass.



Paul Depace, Rose and Albert Carlotti

Robert J. DeSantis, '85

Rob began his career as a structural engineer for Hughes Aircraft Company in southern California. Three years later, leveraging his technology experience, he entered the software sales arena. In 1990, Rob joined start-up Rasna Corporation, a mechanical design and optimization software company, where he spent five years building Rasna's field operations in the U.S. and internationally. In 1995, while living in Germany, Boston-based Parametric Technology Corporation acquired Rasna. After the acquisition, Rob returned to U.S. and spent the next year consulting in the venture capital industry in Silicon Valley. In 1996, with six other individuals, Rob co-founded Ariba, Inc. and automated the traditional purchasing process in large organizations and revolutionized commerce between companies. Rob led the sales efforts of Ariba, taking the company from zero to \$250 million in four years, making Ariba the fastest-growing software company in the history of the industry.

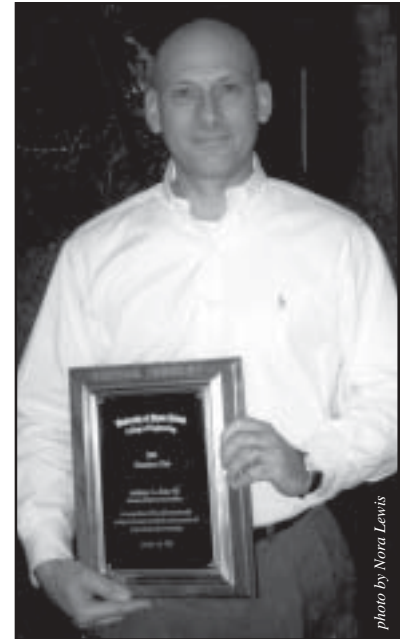
In 1999, when Rob was living in Holland setting up international operations, Ariba went public and became one of the top ten IPOs of all time. Today Ariba has roughly 1,600 employees around the world and over 600 Fortune 2000 customers. In 2000, Rob became executive vice president and chief marketing officer of Ariba, where he developed key relationships with companies such as Dell, Microsoft and American Express. Today, Rob now serves as an advisor to the executive committee at Ariba, and sits on other technology company boards. He and his wife, Ranae, enjoy homes in both northern and southern California, and they return to Rhode Island each year to visit family and friends.

James A. Dolce, Jr., '84

Jim founded Redstone Communications in 1997, in recognition of the critical role IP-centric networking would play in next-generation public networks. He successfully launched the company's advanced RX Edge Switch Router family before orchestrating Siemens AG's acquisition of Redstone in 1999. Redstone then became the cornerstone of Siemens' \$1-billion global data networking company, Unisphere Solutions. Today, Jim is president and CEO of Unisphere Networks, overseeing 800 employees at new headquarters in Westford, Mass. Prior to forming Redstone, Jim was vice president and general manager of the Remote Access Business Unit at Cascade Communications (now Lucent Technologies). He joined Cascade in 1996, through the acquisition of Arris Networks. Prior to forming Arris, Jim was with Promptus Communications, a manufacturer of high-speed digital network access products. Currently, Jim is a member of Siemens' management board, and one of only five division heads with Siemens ICN, the \$40-billion optical, enterprise, wire line and access division of Siemens. Jim and his wife, Leslie Marble Dolce, live in Hopkinton, Mass., with their two sons.

George J. Geisser, Jr., '48

George has over 40 years consulting experience, including conduct and supervision of numerous engineering design and evaluation studies and investigations. Projects have included municipal and industrial waste disposal programs; wastewater collection system design and evaluation; structural design and failure investigations; foundation design and investigations for buildings, bridges and roads; forensic engineering; and explosives and seismic studies. Following service to our country in



Anthony Zona

WWII, George remained a LTC in the US Army Reserves. During that time, he founded and operated two companies: Allstate Drilling Co., and George J. Geisser & Assoc. as President, Treasurer, and Managing Partner until 1954. By agreement in 1988, George J. Geisser & Assoc. became George J. Geisser, Jr. & Co., which George ran as President. To reflect the times in 1988, the third iteration of the company became Geisser Engineering Corp., now operated by George Geisser III '73 (CE). As President of the R.I. Society of Professional Engineers, he championed current registration laws requiring examination and education; was named RI Engineer of the Year; was a member of Rotary and the Elks, and was a board member of Blue Cross/Blue Shield. George obtained a MOS CE from Worcester Polytech at age 60. He and Virginia Cregan Geisser '49 (HS&S) are among many in the Geisser family who attended URI.

Anthony Zona, '81

Tony is president and CEO of Quantum Bridge Communications, Inc. Headquartered in Andover, Mass., the company develops next-generation optical networking equipment. Quantum Bridge products are currently deployed in service provider networks and the company has received widespread industry praise for making optical access networking a reality. Prior to co-founding Quantum Bridge, Tony worked with Bell Laboratories and Lucent Technologies developing and managing SONET, ATM, HFC, and switched digital broadband systems. He began his career as a systems engineer for Raytheon, working on *cont. page 14*

A Look Back at The College of Engineering - Part XII

By Kendall Moulthrop '41, Professor Emeritus of Civil Engineering

The plan for the development of the campus included having Rhode Island State College become the University of Rhode Island which occurred in 1951. The plan also included the development of an Engineering Quadrangle behind Bliss Hall. The graduate degree programs required that facilities for research be made available. Because classes on Saturday interfered with weekend activities, they were discontinued. With no Saturday classes, the classes on Tuesdays and Thursdays of the three-day sequence were increased in length.

In 1959, the first two buildings which were part of the new Engineering Quad were completed, and the move out of Bliss Hall began. The Industrial Engineering department moved into Gilbreth Hall in 1960, and Chemical Engineering moved into Crawford Hall in 1962. The Mechanical Engineering department moved into Wales Hall, and the Electrical Engineering department moved into Kelley Hall. Bliss Hall was partially renovated in 1963 for the Dean and Civil Engineering. The remaining renovations were completed in 1966.

Field Trips

Although most of the education for engineers takes place in the class rooms and labs, field trips can be a very useful supplement. A visit to a site gives one the opportunity to smell the smell, hear the noise and sometimes talk with the guy who is doing a job. Trips were made by car, and students volunteered to drive. The following are two of the trips made by civil engineering students.

On Thursday April 23, 1964, Professor Moulthrop drove to the U.S. Military Academy at West Point, N.Y., accompanied by Professor Gentile and three students. There were 21

seniors and 5 graduate students who went on this trip. In the afternoon, there was a tour in an army bus with stops at the sewage treatment plant, the water supply system and the chapel which had the second largest pipe organ in the United States. After attending the cadet retreat parade, the group drove to New York City where rooms had been reserved at the YMCA Sloan House on 34th Street. The YMCA provided very inexpensive accommodations and they had a cafeteria.

The next day started with a visit to a construction site in lower Manhattan where the foundation problems of the job were described. This was followed by a visit to the Verrazano-Narrows Bridge and the ASCE headquarters at the Engineering Center. Saturday was spent visiting the Worlds Fair. It was a successful trip and everyone showed up for class on Monday.

Each year there were one or more times the students were invited to professional meetings held at various locations. If these were evening events, quite often a field trip would be arranged for that day so the group would end the day at the meeting. Ray West, BSCE 1949, remembers driving his new car on a field trip which included an evening meeting in Boston, MA. The speaker told about a tunneling project in New York City. Ray, and four others riding with him, decided to end the evening by taking in a burlesque show at the old Howard, a popular night attraction in Boston. When they went to get his car to go home, they couldn't find it. Someone had stolen it. They spent the night in a hotel and came back to Kingston by train the next morning. The police located the car several days later much the worse for the experience.

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The "Engineering Quad" was recently used for the 2001 end-of-the year COE picnic. Departments of Civil, Chemical, Electrical, Industrial and Mechanical Engineering surround this open space.

photo by Arnie Martino

Recognizing Tom

When Tom Kim steps down from his position as dean at the end of the 2001-2002 academic year, he'll become re-focused upon his world-renowned water jet research, and will be returning to the classroom as a tenured professor of mechanical engineering. It goes without saying that Tom will remain a valued asset to the College of Engineering and the University of Rhode Island, which he has faithfully served since 1968.

To celebrate and honor Tom Kim, a special "toast and roast" banquet is being planned for Friday, May 3rd, 2002. If you would like more information about this event, please contact Ruth Gormly by telephone at (401) 874-2186, or by e-mail at gormly@egr.uri.edu. Mark your calendar, and notify Ruth as soon as possible if you plan to attend. Invitations will be mailed later.

As the 2001-2002 year continues, I will be reaching out to engage and involve Alumni and Friends of Dean Kim and the College of Engineering. My purpose is to encourage philanthropic recognition of Tom, and to attract financial support for the needs of the College. You may demonstrate your respect and appreciation for Tom's "Decade of Accomplishments" as dean by making a contribution to

the College, or to any of its departments. By doing so, you will help sustain the quality of the programs within the College and provide essential support for educating tomorrow's engineers.

I hope you will choose to participate in this special giving opportunity. Your pledge commitment of \$1,000 or more may be extended over time, and outright gifts of any amount are welcome. URI also accepts gifts of securities, or payment by credit card. Please contact me if you would like more information, to resolve any questions you may have, and to discuss how your gift may best be used. If you are planning to return to campus, let me know. I'll be happy to provide a tour of the College and visit with you.

You can look me up on the URI Advancement Web site at <http://advance.uri.edu>, reach me by phone at (401) 874-2162, or send e-mail to rcrough@advance.uri.edu. Thanks for your support in recognition of Dean Kim, and for considering the needs of your College. Best wishes throughout the New Year...

Robert Clough
Senior Development Officer
College of Engineering

Awards Banquet *(cont. from page 12)*

the Patriot Radar System. Tony, who was named the 2000 *Mass High Tech All-Star* in the telecommunications industry, has more than 15 years of experience in developing, managing and marketing telecommunications technology and systems. Tony also holds a master's degree in applied math from the University of Massachusetts/Lowell, and an MBA from Boston University. He and his wife, Lori, have two daughters.

At the banquet, in addition to the alumni awards, the College of Engineering also bestowed 2001 Faculty Excellence Awards upon the following recipients:

Dr. Brent Stucker, assistant professor of industrial and manufacturing engineering, won the Albert E. Carlotti Award for research in the field of Rapid Manufacturing, and for his work in establishing the Center of Rapid Manufacturing.

Dr. Godi Fischer, professor of electrical engineering and **Dr. Richard J. Vaccaro**, professor and chair of electrical and computer engineering, received Aurelio Lucci Awards for their contributions in teaching and research and administration, respectively.

Dr. David G. Taggart, associate professor of mechanical engineering and applied mechanics, received the Edmund and Dorothy Marshall Award for his contributions in teaching, research and service.

The Royal Wales Award was given to the **Engineering Diversity Committee** for promoting diversity at the College of Engineering. Committee members include: **Malcolm Spaulding**, chair and professor of ocean engineering, **Christopher Baxter**, assistant professor of ocean engineering;

Laura Beauvais, **Roxanne Gomes**, **Winston Knight**, chair and professor of industrial and manufacturing engineering, **William Ohley**, professor of electrical engineering, **Joan Peckham**, **Vincent Rose**, professor of chemical engineering, **David Taggart**, associate professor of mechanical engineering and applied mechanics, and **Melvin Wade**.

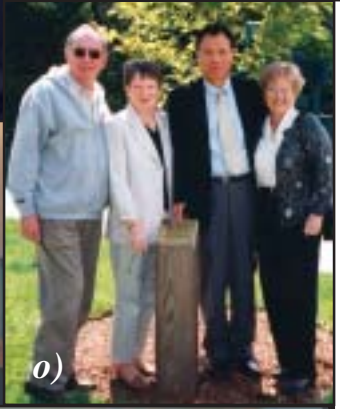
As the last Awards Banquet ceremony under his tenure as dean, the event held special meaning for Tom Kim. "We created the Awards Banquet to honor the many College of Engineering alumni who have given so much to this world," he said. "Their initiative, courage to take risks, imagination and generosity have shaped the world of engineering and business and influenced a global economy. It has been my honor to know them, and to be able to recognize their professional accomplishments."



Faculty Excellence Awards recipients: Drs. Vaccaro, Stucker, Taggart, Spaulding and Fischer

A Decade of Accomplishments - continued

a) Foster Middleton Building Dedication, b) 1999 Winter Gala Engineering Table, c) Provost Swan in IME Lab, d) David Barretta, Chester Kirk, e) Thanks to editor Laura Nelson and f) production manager Artie Martino, g) Engineering Alumni and Dean Kim, 2001 Florida Gators Chapter Luncheon



h) Charisse and Joe Morrone III, i) Gussie and Victor Baxt, j) Dorothy and Ralph Lux, k) President Carothers, Paul Nordquist, l) Alfred Budnick Honorary Doctoral Degree Ceremony, m) 1998 Engineering Hall of Fame Inductees, n) 1998 Chester Kirk Building Dedication Ceremony, o) John Gray Memorial Tree Planting, p) URI Ocean Engineers Win International Autonomous Underwater Vehicle Competition q) Engineering Advisory Council, r) Annual Water Rocket Contest Preparation



a) Christiane Amanpour, Dean Kim; b) Edmund Marshall, Engineering Commencement Speaker; c) URI Engineering Student in NASA zero gravity experiment; d) Chester Kirk Building Dedication Reception; e) 1998 Engineering Founder's Club Inductees

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