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Defining the Future



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« Bill Bindley and Chris and Susan Burke commit newly endowed professorships to Civil Engineering

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Transitions is published annually for alumni, faculty and staff, parents, and friends of the School of Civil Engineering at Purdue University. Send comments, news, and address changes to: *Transitions* Editor, School of Civil Engineering, Purdue University, 550 Stadium Mall Drive, West Lafayette, Indiana 47907-2051 or email: cenevs@ecn.purdue.edu.

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It has been another exciting year for Civil Engineering at Purdue. With new facilities, new faculty and growth in undergraduate enrollment, the size and quality of our program has taken another very strong leap forward.

In addition, we set another new record for externally funded research expenditures. Research funds provide critical support for our undergraduate and graduate educational and instructional missions, and the continued growth in research expenditures at Purdue is noteworthy given the cutbacks that have been the norm at many federal and state funding agencies.

(continued) »



« Fred Mannering

» A few of the School's highlights in the past year include:

- Completed last fall, the Robert L. and Terry L. Bowen Laboratory for Large-Scale Civil Engineering Research has been quickly staffed and research operations have begun in earnest. Funded entirely by the contributions of alumni and friends, it is arguably the largest, most modern and technically advanced facility of its type in the country. This incredible facility has significantly expanded Purdue's already formidable structural and materials research program.
- Edward and Ann Curtis, Jan Curtis Spayth and two additional civil engineering alumni have pledged a combined total of \$1.5M to establish a chaired professorship for visiting professors so that Purdue's School of Civil Engineering can attract outstanding scholars from other universities to visit and teach during their sabbatical leaves. As part of a challenge to bring more chaired professorships to Purdue, Mr. William Bindley (of Indianapolis) has committed to match the new Curtis Chair, thus establishing not one but two new endowed chairs in Civil Engineering.
- As part of the College of Engineering's faculty expansion, Civil Engineering has added 6 new faculty in 2004. These include Mike Kreger (structural engineering), Joseph Sinfield (sensor applications and management), Amit Varma (structural engineering), David Bonen (cement chemistry and nano-cements), Hugo Ochoa-Acuna (environmental risk management) and Maria Sepilveda (environmental toxicology). We expect to add another 6 or 7 new faculty in the coming year as well.
- Annual research expenditures, a key measure of external funding support, reached a record \$12.5M in the 2003-2004 fiscal year. This is a 21% increase from the previous year and a tribute to the hard work of our faculty, students and staff.

These are just a few of the achievements of the School in the past year — achievements that are helping to make Civil Engineering at Purdue a preeminent program. And, we have great expectations for 2005. From the addition of more new faculty to the continuation of our fundraising campaign, Civil Engineering at Purdue is continuing a remarkable transformation. With the continued support of alumni and friends, and the hard work of faculty, staff and students, this transformation will soon be complete.

Fred Mannering

Head, Civil Engineering ■



Professor Wood was responsible for the high quality of Civil's Co-Operative Education Program. Shown here with Peter Ricchio and Brian Frost.

Remembering Professor Leonard E. Wood

Purdue University Professor **Leonard (Woody) E. Wood**, 81, West Lafayette, passed away, September 8, 2004. Born in Burr Oak, Kansas in 1923, he attended schools there and married Margaret Ruth Stafford in Mankato, Kansas May 18, 1947. He served in the Army Corp of Engineers overseas during World War II. Graduating from Kansas State University with a BS and MS in Chemical Engineering 1947-1948, he continued at Kansas State as an instructor until 1953.

He entered Purdue University in 1953 and in 1956 received a Doctorate in Civil Engineering. Retiring in 1993, he volunteered to continue as coordinator for the Cooperative Education Program for the School of Civil Engineering. The leadership he provided as our Co-Op Coordinator will be sorely missed.

He served as advisor to Chi Epsilon Honorary Fraternity for more than 10 years. He also served for 36 years as the advisor of the Purdue Chapter of Acacia Fraternity. Professor Wood was a member of the Board of Directors of the American Society for Testing and Materials, a member of the Transportation Research Board, Joint Transportation Research Board, Academy of Science, former Lions Club President, and active in the Wabash Gem and Mineral Society, President's Council, John Purdue Club, Purdue Alumni Association, the United Methodist Church and the Masonic Lodge. He was also on the Advisory Board of the Indiana Local Technical Assistance Program at Purdue. He was a registered Professional Engineer in Kansas and Indiana, and a member of the American Society of Engineering Education, Association of Asphalt Paving Technologist, Sigma Xi, and received the Ross Judson Buck Outstanding Counselor Award in the School of Civil Engineering. ■

Courtesy of Lafayette Journal & Courier,
September 12, 2004

Message from the editor »

Professor Wood's enthusiasm for his work, the students he served and his unbounded energy were amazing. Many former students kept in close touch with him over the many years. He influenced so many lives, enjoying the success in all their various endeavors and often said to others, "I've had a wonderful life." I had the opportunity to interview Leonard and write the following article in May of 2004. I had no idea that he would not be here to see it published. His devotion to the School of Civil Engineering, the Co-op Program and his students will be sorely missed by all. I, personally, will miss his great attention to the importance of the written word and his incredible efforts to help his students become better writers.
Suzu Karberg

For almost half a century, parents, students, and employers who have had the opportunity to work with Professor Leonard Wood through the School of Civil Engineering and Purdue's Cooperative Education program appreciated his caring and interest in both students and the Co-Op program. In 1989, satisfied parents of a Co-Op student in a letter to Dean Henry Yang summed up the feelings of many when they stated, "Money cannot provide satisfactory alternatives to an experienced, caring and compassionate professor such as Professor Leonard Wood. No doubt, his interest in young students has made a significant contribution to the world-class reputation

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Endowed Faculty Civil Engineering



« Bill Bindley with Susan and Chris Burke

Faculty Positions Define Engineering School's Future

The School of Civil Engineering is leading the way in creating new endowed faculty positions at Purdue University. In response to a challenge from Indianapolis business and civic leader, William E. Bindley and his wife Mary Ann, two new endowed funds, commonly known as professorships or chairs, have been created by civil engineering alumni and friends in the past 18 months. Two additional chairs in civil engineering will be created by Mr. Bindley as matching gifts. Civil engineering's new chairs were the first received by any school in the College of Engineering at Purdue that qualified for the Bindley matching challenge. Earnings from these funds will be used to attract and/or retain the very best faculty to Purdue further strengthening the school in its quest for preeminence.

The first of the new chairs is being created by civil engineering alumnus, Christopher B. Burke and his wife, Susan of Naperville, Illinois. Originally announced at campus ceremonies on February 17, 2003, the \$1.5 million ten-year pledge establishes the Christopher B. Burke Professorship in Civil Engineering. Earnings from the fund will be used to attract and/or retain an internationally recognized faculty member to Purdue who specializes in the area of hydrology and hydraulics. The faculty member selected to receive the "chair" will have access to a permanent source of funds which can be used for such things as equipment purchases, graduate student stipends and professional travel — essentially, anything that will enhance his or her scholarly activities.

"We are happy to be in a position to give something back and meet Bill Bindley's unique challenge," said Burke, who received a bachelor's degree in 1977, a master's degree in 1979 and a Ph.D. in 1983, all from Purdue's School of Civil Engineering. Susan Burke also received her bachelor's degree from Purdue in 1978 from the School of Liberal Arts.

"Obviously I've spent a lot of time at Purdue, and I have valued the opportunities I was presented and the friends I have made at the university," Chris Burke continued. "I knew this would be a great opportunity for the School of Civil Engineering and that if I was going to do something, now was a good time to do it. Susan and I continue to benefit a great deal from my Purdue education. We hope these two new chairs will keep or attract outstanding educators who can help the school train tomorrow's top civil engineers. The world's challenges are great. We need to create opportunities that lead to excellence."

The second of the new chairs is being created by fraternal twins Edward M. Curtis, Jr. and Jan Curtis Spayth of Beaumont, Texas. Mr. Curtis and his wife Anne and Mrs. Spayth have made a combined commitment of \$1.25 million to establish an endowed professorship named in honor

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President Martin Jischke, along with Dean Linda Katehi, congratulates Chris and Susan Burke at their gift announcement.

» of their father. The new fund is called the Edward M. Curtis, 1925, Visiting Professor of Civil Engineering. Edward Curtis, Sr. and Edward Curtis, Jr. are both graduates of the School of Civil Engineering. Jan Curtis Spayth is a graduate of the Purdue University School of Home Economics (now the School of Consumer and Family Sciences). In order to reach the minimum level of \$1.5 million to qualify for the Bindley match, two other civil engineering alumni leaders contributed to the fund.

Unlike most endowed chairs at Purdue, which are filled by the university's most accomplished educators and researchers, the professorship funded by Curtis and Spayth will help attract visiting professors to spend a semester or year at Purdue in the School of Civil Engineering. Curtis and Spayth hope their gift will help the school to bring top faculty members from other universities to work with Purdue students and faculty, both in the classroom and the laboratory.

"There are certainly many, many talented professors around the country who do take sabbaticals and do these things, and I just think it's helpful to the university to be able to bring them in and take advantage of what they can do for the students," Curtis said. "It seems like a logical thing to do from my standpoint."

The Curtis Visiting Professorship will also be matched with a Chair in Civil Engineering from William E. and Mary Ann Bindley. The Bindley Chair Challenge was originally announced in September 2002 when the couple gave Purdue a \$52.5 million commitment — the largest by individual donors in Purdue history. Most of the money — \$45 million — is in the form of a deferred gift to fund endowments for faculty chairs, student scholarships and fellowships, and academic programs. Over \$22 million of the deferred commitment is for matching funds to create 15 new endowed chairs across the university.

For more information on the Bindley Challenge or ways to create current or deferred gifts to fund professorships or other endowments, contact Jim Brehm, Civil Engineering Director of Development at 765-494-2236 or brehmj@ecn.purdue.edu. ■

Written by Jim Brehm with portions of this article taken from Purdue News Service

Metec Sozen, a licensed structural engineer, teaches and does research in structural analysis and experiment. Professor Sozen, is internationally known for his work in seismic analysis and design. He has worked with building, transportation, industrial and »

» hydraulic structures with emphasis on their behavior in earthquakes. Recently he has focused on effects of impact and blast.

“An endowed chair at Purdue has been, for me, both a rare privilege and a tough challenge. It has been a privilege because it has made it possible for me to work with a faculty at the cutting edge of teaching and research as well as interacting with a select student body. At the same time, the chair I hold has been a constant challenge because of the freedom it has given me in choosing what I do and, I confess, that is much more difficult than going in pursuit of the *idola fori* of the profession for my daily bread.

Central Asian instruction used to require that the good student should ride well, shoot straight, and tell the truth. The endowed chair is a tougher master than that because it focuses expressly on the last of the three requirements. Suddenly every lecture and every project become mirrors in which one sees one's failings. There is no more the excuse of being able to say, “Well, I had to do it to produce a paper or I had to submit that hum-drum proposal to support students.” The dismal set of current criteria that the academy has fomented for tenure seems like an easy street compared with having to face the truth test everyday.

Yes, the responsibility is tough but the freedom is sweet and I am grateful to the Kettelhut family and the Purdue faculty for my emancipation. Have I

used my privilege of doing anything I want within the profession well?

That, of course, is for others to decide, but I can say honestly that I have tried. The flexibility afforded by the Kettelhut fund allowed me to move quickly on the analysis of the tragedy that occurred on September 11, 2001 in order to save and understand as much as could be saved of the perishable data for the benefit of the profession. When the opportunity arose to build and test a full-scale structure in the Bowen Laboratory, it was possible to contribute my time to the project quickly and freely in order to make ends meet. Above all, it has been a thrill to be able to cut across traditional departmental lines and work with brilliant people in other departments. I have learned by working with faculty in Computer Science, Earth and Atmospheric Sciences, Geotechnical Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering.

In sum, the chair has impelled me in the direction of improving my teaching by staying closer to the truth, a journey that continues. It has given me more time to spend with students. Those are heady privileges. At the same time, the tough daily test goes on.” ■



Professor Sozen, Karl H. Kettlehut Distinguished Chair, far right, and his Purdue Earthquake Investigative Team in Bingol, Turkey, May 2003.

Global Sustainable Industrial Systems, GSIS

Because of the endowment his chair provides, Suresh Rao, the Lee A. Rieth Distinguished Professor of Environmental Engineering, is able to help lead the Purdue Engineering Signature Area to examine the ecological impact of everything that keeps industrialized nations running.



GSIS Examines the Ecological Impact of Everything that Keeps Industrialized Nations Running.

Human industrial activities — the use of fossil energy, production of food, acquisition of raw materials, and the human transformation of about 25 percent of the earth's land surface — have grown exponentially in only the past 50 years and have global effects. By developing eco-friendly products, assessing and monitoring their environmental impact and getting business plans to consider global ecological consequences, Purdue hopes the GSIS signature area will contribute to a secure and prosperous future.

“To begin addressing problems associated with coastal hypoxia, climate change, regional water scarcity, and allocation of finite resources, engineers must now incorporate ecological, social, legal, and economic constraints into their designs,” says **Suresh Rao**, the Lee A. Rieth Distinguished Professor of Environmental Engineering and the Associate Dean of Engineering for Graduate Education and Interdisciplinary Programs.

Conceptually, he says, a sustainable society must live off the interest of our global ecological trust fund while preserving our ecological capital. GSIS aims to transform this concept of sustainability into a systematic academic discipline.

GSIS Takes an Unflinching Look at the Cradle-to-Grave-to-Cradle Ecological, Social, Political and Economic Impacts on Industrialization

By integrating and overlapping the study of industrial systems with the study of natural and managed ecosystems, researchers will better understand and manage the flow of materials and energy for sustainable utilization of both renewable and nonrenewable resources. ■



Kumares Sinha, the Olson Distinguished Professor, with CE students.

Kumares Sinha "I believe the difference between a good academic program and an excellent one can be the resources that an endowed chair provides to do things that are not possible otherwise. Of major interest to all of us is attracting and retaining the best students in civil engineering; the Olson Distinguished Professorship endowment has allowed me to award annually several fellowships to deserving graduate students who want to participate in research. In this same vein, the funds are used to subsidize attendance of our students at conferences organized by ASCE and other societies. For example, each year in January as many as 30 graduate students attend the Transportation Research Board Annual Meeting, the largest transportation conference in the world. Exposure to the scholarly discussions and professional networking available at these conferences is an invaluable experience that enhances a student's academic program. The Olson endowment has also allowed me to do research that is not funded from traditional sources which are often highly restrictive and are not global and futuristic in nature. For example, I am interested in the issues of world urbanization and motorization as they affect long term transportation sustainability. With the Olson funds I am now able to explore the phenomena. The endowment also allows me to bring in students, many of whom are undergraduates, to assist in my teaching and other functions. These students are exposed to creating new class problems, proposal writing, and doing exploratory literature searches, which I would not be able to support through traditional sources. In addition, the endowment has allowed me to sponsor visits to Purdue by stalwarts in our field to give seminars as well as visits by young professionals to participate in our research activities for short periods of time. All of these hopefully will help to make up the margin between a good and an excellent academic program." ■

Indiana Clean Manufacturing Technology and Safe Materials Institute

The Indiana Clean Manufacturing Technology and Safe Materials Institute (CMTI) announces the opening of a new regional satellite office in Northwest Indiana along with the appointment of **John S. Soeka** to its staff. CMTI is a state-supported Institute established and operated at Purdue University within the School of Civil Engineering. The purpose of the institute is to service as the state's focal point for coordinating and deploying technical assistance, outreach, education, and research to facilitate the adoption of pollution prevention/clean manufacturing strategies by Indiana manufacturing facilities. Primarily working with small and medium-sized companies, CMTI can analyze manufacturing process, materials and policies, and identify potential improvements.

"The recent appointment of John S. Soeka extends the Institute's technical assistance outreach to Northwest Indiana," said Lynn A. Corson, Institute Director. "John's degrees in Industrial Engineering and Business Administration, coupled with his expertise in and experience assisting manufacturers in the region with quality management and advanced technology services, provides a natural complement to CMTI's mission," Corson said. ■

Chi Epsilon



Student and faculty members initiated into the Purdue University Chapter of Chi Epsilon on March 6, 2004.

The 38th Chi Epsilon National Conclave was held at Purdue University March 4, 5 and 6, 2004. The Conclave was attended by 240 student members, faculty advisors, and Supreme Council members from 94 colleges and universities from across the country. Delegates traveled to West Lafayette from as far away as Hawaii and Alaska.

The Conclave began on the evening of Thursday, March 4 with registration and a welcome party at Stewart Center. Friday's activities started off with a welcoming address by Dr. Fred Mannering followed by a group picture on the steps of Hovde Hall. The group had the privilege of hearing lunch and dinner addresses from Dr. Thomas Nelson and Dr. Donn Hancher, respectively, as well as a presentation on ASCE Policy 465 by Marlee Walton. The delegation spent the remainder of the day in district caucuses and committee meetings in order to complete the official business of the Conclave.

The Conclave delegation spent Saturday morning in general session to approve the previous work by the committees. One item of business was the decision to posthumously elevate Dr. Charles Pankow to the position of National Honor Member. Delegates either toured the Civil Engineering Building and Bowen Laboratory or attended a job fair in the Purdue Memorial Union. Thirty-five student members and two faculty members were initiated into the Purdue University Chapter of Chi Epsilon in a ceremony at Fowler Hall on Saturday afternoon. The Conclave was concluded with a banquet in the North Ballroom of the Purdue Memorial Union on Saturday evening. National and Chapter awards were presented at the banquet and the keynote address was delivered by Dr. Christopher Burke. ■

What a year it has been for celebrating successes and anticipating more to come in the area of development and alumni relations. The 2003-2004 fiscal year can also be characterized by alumni and friends coming together —

pooling their resources — to accomplish our goals and strengthen our school of civil engineering. We are indeed grateful to have received gifts, pledges and deferred commitments of over \$3 million to benefit the school during the 2003-2004 fiscal year.

It was a year which started with the dedication of our new large-scale structures/materials testing lab — named for Robert L and Terry L Bowen, the largest donors to the building — but truly a total effort of generous alumni and friends. All contributors to the effort are recognized as you enter the beautifully designed main lobby or commons of the facility named for famed former faculty member and legendary structural engineer, the late John Goldberg. If you have not seen this impressive new facility on South River Road and the critical research which is beginning to take place there,

make it a point to stop by on your next visit to campus. Give us a call first and we will arrange for a tour. It is certainly never too late to be part of this effort as a donor since funds, particularly for equipment, are still very much in need.

■ A few months after the dedication of the new lab, another exciting announcement was made: the school of civil engineering would be the beneficiary of a second endowed faculty position and a second Bindley matching gift. At the point of this announcement on February 18, 2004, no other school in the entire College of Engineering had received one new endowed chair which would qualify for this special challenge let alone two new \$1.5 million endowments. Ed and Ann Curtis, Jan Curtis Spayth and two additional generous civil alumni had combined their gifts to create a visiting professorship at the \$1.5 million level. This was just one year after the school was proud to announce the first response to the Bindley Challenge when Chris and Susan Burke stepped forward with their major commitment of an endowed chair in hydrology/hydraulics.

As the fiscal year came to a close in June of 2004, we learned of two more major accomplishments in terms of giving among our alumni and friends. First, in fiscal 2003-2004 more civil engineering alumni contributed to the school than ever before with over 20% participation. What's more these donors contributed more dollars — \$291,894 to be exact — to be used by the school's leadership for students and projects of highest immediate priority. In the not-for-profit world, we call this type of gift "unrestricted" but perhaps no gift makes a greater instant impact.

■ Please see the list of new endowment funds and new annual restricted scholarships later in this publication that were created over the course of the last year. We are so grateful to our friends and alumni who preferred to create a lasting legacy in civil engineering education. These permanent funds will sustain the school and our students for generations to come.

In total, \$14.6 million has been raised in the last three years in each of the following categories:

» Scholarships & Fellowships	\$779,070
» Facilities	\$9,085,061
» Faculty Support	\$2,687,000
» Programs	\$404,052
» Unrestricted	\$1,666,034

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Jim Brehm »



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- » ■ Finally, if you and/or your spouse have included the school of civil engineering in your estate plans or are considering doing this, please let us know. This benefits the school in a number of ways and it also benefits you. First, by sharing your plans with the school (which can be done confidentially or anonymously through your attorney), you will have the peace of mind of knowing that your intentions, however specific, are understood and thus, abided by when the time comes and the gift arrives. The school benefits by knowing and being able to prepare for whatever gifts might be coming in the future. Also, we would like to thank you personally for your deferred commitment and, if you don't mind, recognize you publicly for your generous plans. We have found by recognizing our alumni and friends in this way during their lifetimes, it encourages others to consider making similar planned gifts for the benefit of civil engineering.
- If I can be of any assistance or answer any questions you may have regarding your philanthropy, please don't hesitate to call me at 765-494-2236, e-mail at brehmj@ecn.purdue.edu or write at 550 Stadium Mall Drive, West Lafayette, Indiana, 47907. We appreciate all you have done and all you plan to do to maintain our strength as a school of civil engineering and help us reach new heights.

Jim Brehm

Civil Engineering Director of Development ■

Faculty in the News

Kumares C. Sinha, Olson Distinguished Professor of Civil Engineering, was made a Member Emeritus of the Committee on International Activities of the Transportation Research Board of the National Research Council in recognition of his years of dedicated service and significant contribution.

Kumares C. Sinha was also the Chairman of the International Steering Committee of the 8th International Conference on Applications of Advanced Technologies in Transportation Engineering held in Beijing, China May, 2004. He spoke at the Opening Ceremony and chaired a plenary panel session. The conference was attended by about 650 Chinese and foreign participants. Prof. Sinha also visited Tongji University in Shanghai and toured the Maglev high speed rail facilities there.

W. Jason Weiss, assistant professor of civil engineering, received the Walter P. Moore Junior Faculty Achievement Award from the American Concrete Institute International "in recognition of excellence for his teaching and outreach in the field of concrete materials, from elementary school children to university professors."

Professor **M. Skibniewski** (CEM and CE) received an Outstanding and Dedicated Service Award sponsored by the Office of International Students and Scholars and the Office of Programs for Study Abroad for his two years of service as Interim Dean of International Programs at Purdue.

Robert B. Jacko, Professor of Environmental Engineering, School of Civil Engineering, has been selected to receive the Air and Waste Management Association's Lyman A. Ripperton Award. The award was presented to Professor Jacko during the 97th Annual Conference and Exhibition on Thursday, June 24, 2004. The convention was held at the Indiana Conference and Convention Center in Indianapolis, Indiana.

The Lyman A. Ripperton Award is presented annually to an individual who has inspired students to achieve excellence in their professional and social endeavors. It recognizes the ability that only a few

educators possess: to teach with rigor, humor, humility, and pride. Recipients of this award are educators we would have chosen as our teachers if we had a choice. They are known by the accomplishments of their students.

Professor **Rodrigo Salgado** was selected as a recipient of the prestigious Walter L. Huber Civil Engineering Research Prize in 2004. The award is given to him by the American Society of Civil Engineers (ASCE) for his work on foundation engineering, particularly the analysis of shallow and deep foundations and the application of these analyses to foundation design. ■

Fred Mannering is co-chair of the Intelligent Infrastructure Systems, one of Purdue Engineering's signature areas — an area that incorporates the ideas behind self-diagnosing and even self-healing structures. In addition to wiring buildings for their own self-examinations, two other subheadings—Intelligent Environmental Systems and Intelligent Transportation and Logistic Systems—will look to bolster those infrastructures. **Kumares Sinha** is working with graduate students to develop and evaluate algorithms for traffic quality assessment. *For more information about IIS at Purdue, see Intelligent Infrastructure Systems, by Sue Ferringer of Engineering Communications Office.*

Professor **Rao S. Govindaraju** has been selected as a recipient of the prestigious Walter L. Huber Civil Engineering Award 2004 for his contributions in the use of artificial neural networks and their applicability in hydrology, rainfall-runoff modeling, and stochastic subsurface hydrology. The American Society of Civil Engineers presented Dr. Govindaraju with this honor and, along with co-author T.P. Chan, awarded him the ASCE Journal of Hydrologic Engineering Best Paper Award for "Analyzing Vertical Field-Scale Solute Movement by Applying Interval Computing Methods to the Stochastic-Convective Transport Model," *ASCE Journal of Hydrologic Engineering*, 6(6), 480-489, 2001. ■



Kumares C. Sinha »



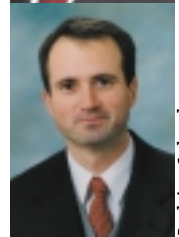
W. Jason Weiss »



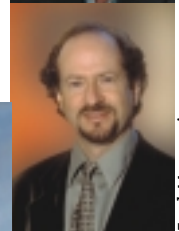
M. Skibniewski »



Robert B. Jacko »



Rodrigo Salgado »



Fred Mannering »



Rao S. Govindaraju »

New Faculty

- » **Dr. David Bonen** has accepted our offer to join Purdue as Associate Professor in the School of Civil Engineering. His research focuses on fundamental understanding of the relationships of the physical, chemical, and rheological properties of cementitious systems with emphasis on the underlying science and correlation to microstructure on one hand, and applicable research related to mix design, self-consolidating concrete, resistance of concrete to high temperature, and deterioration of cementitious materials. His degrees are from the Hebrew University of Jerusalem. After his PhD in 1980, he spent about 10 years with Neshet, a midsize cement company, in the capacity of the manager of the central laboratories and research director. He then spent seven years with USG, focusing on formulation and development of construction materials and structural fiber reinforced thin sheets. In 2002, he returned to the academia assuming a position of research professor at Northwestern University before joining Purdue in 2004.

Joe Sinfield joins Purdue University as an Assistant Professor of Civil Engineering in the construction and engineering management group. His research interests include the development and application of advanced sensing technologies for civil engineering applications (e.g., laser-based sensing, wireless sensor systems, and piezoelectric devices) as well as engineering business management, strategic planning, and innovation. Prior to Purdue, Joe spent five years with McKinsey & Company advising leaders of Fortune 100 companies on issues of growth, technology investment, innovation management and go-to-market strategy in the areas of materials, chemicals, manufacturing, and telecommunications. He has also worked as a geotechnical engineer for Haley & Aldrich, an engineering consulting firm based in Cambridge, MA and as a Post-doctoral Researcher with MIT's Departments of Civil Engineering and Nuclear Engineering. He graduated from Bucknell University, *summa cum laude*, with a bachelor's degree in civil engineering, and completed both his masters and doctoral programs at the Massachusetts Institute of Technology in civil and environmental engineering.

Dr. Varma has accepted our offer to join Purdue as an Assistant Professor in the School of Civil Engineering. His research focuses on: the behavior, analysis and design of civil structures under extreme loading, for example, earthquakes or fire events, and the evaluation and repair of damaged or deteriorating civil infrastructure. His research will be in the Bowen Large-scale Structures laboratory. His areas of expertise include: large-scale experimental investigations of structural components and sub-systems under static, dynamic, or thermal loading, development of analytical models for structural components, and analytical investigations of the elastic, inelastic, and collapse behavior of structural systems. After he completed his doctoral program at Lehigh University in 2001, he served as an assistant professor at Michigan State University for three years. He is the recipient of the 2003-2007 AISC Faculty Fellowship Award for the development of innovative long-span floor systems for multistory residential structures. ■





Dr. Bryan Hubbard »

2004 Recipient of the Purdue School of Engineering New Employee Award

Dr. Bryan Hubbard, the Director of Internships in the Division of Construction Engineering and Management (CEM) is the recipient of the 2004 Purdue School of Engineering New Employee (Administrative and Professional) Award. He has played a vital role in enhancing the quality of construction engineering education at Purdue University. He has initiated key initiatives to enhance the role of internships in the CEM curriculum and to enhance the recognition of the CEM program in the construction industry. Dr. Hubbard has gained the respect and admiration of the students in the program, alumni, his colleagues, both faculty and staff, and industry practitioners. He has worked closely with the faculty in integrating theory and practice in courses and also forming bridges between courses so that students have a holistic learning experience.

The award recognizes Dr. Hubbard's exemplary manner in fulfilling the responsibilities of the internship director, his uncommon initiative, contagious enthusiasm and attitude of service. The School of Civil Engineering is honored to have Dr. Bryan Hubbard as part of our team and congratulate him on his outstanding dedication to his new position. ■



PCI Chairman Fred W. Heldenfels, IV presents Doug Sutton with the PCI Titan plaque naming him one of the industry's top influential Titans in the industry's 50 year evolution. Enjoying the special moment is Professor Sutton's wife, Ellie. James G. Toscas (far right), assisted in the presentation.

Purdue's Professor Sutton Named Titan of Precast Concrete Industry

Purdue University's Professor **C. Douglas Sutton** was saluted as a Titan of the precast concrete industry at the Precast/Prestressed Concrete Institute's 50th Anniversary convention. The award was presented on October 19, 2004 in Atlanta, Georgia.

The Titan award designation was limited to 50 persons, 32 living and 18 deceased, covering the Institute's 50 year history. "These are the people," the PCI Chairman Fred W. Heldenfels, IV said, "who, through their pioneering spirit, and at times, dogged determination, have made major contributions to building an industry. Professor Sutton has been involved with the precast concrete industry more than 45 years. He began his career planning and designing bridges. Since the early sixties, he has continued to teach, research and work on PCI's professional committee activities. He has taught several thousand students in structural analysis and design. He is a PCI Fellow and past recipient of the PCI Distinguished Educator Award."

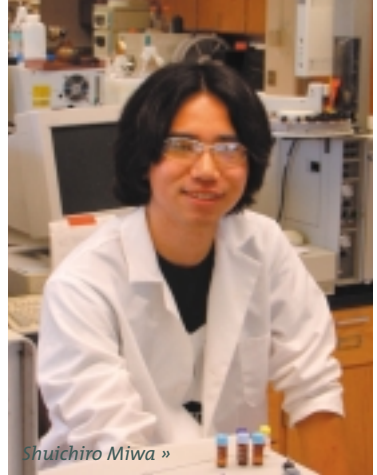
Professor Sutton is one of only four academics named as Titans. "Over the years," says Professor Sutton, "the Precast Concrete Institute, their staff and members have become part of an extended family. I'm particularly proud of working with their leadership in PCI's evolution into a dynamic technical and marketing organization. In truth I'm deeply honored. But the honor is as much recognition of my students and their accomplishments as it is of mine."

The selection panel was composed of industry leaders representing all facets of the institute and the industry.

The School of Civil Engineering at Purdue is especially pleased with Professor Sutton's honor. He is also a past recipient of numerous teaching awards from Purdue including the Murphy, Potter, Buck, Munson and Wansik Awards and is included in Purdue's Book of Great Teachers. Congratulations, Professor Sutton! ■



Siew Hwee Kong »



Shuichiro Miwa »

Summer Undergraduate Research Fellowships, SURF

This past summer, the Dean of Engineering Undergraduate Programs and the Office for Research and Entrepreneurship provided an opportunity for selected undergraduate students to work for 2 to 3 months in a research laboratory at Purdue University under the tutelage of a faculty member and a graduate student mentor.

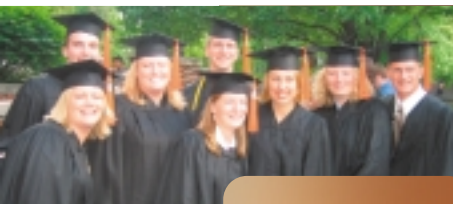
With the support of The School of Civil Engineering, selected students spent over 8 weeks during the summer working in our research labs on various projects. They were able to learn exciting new skills during hands-on research activities and, at the same time, earn a stipend. Two of the projects were:

■ **Siew Hwee Kong**, with the help of her mentor, Alberto M. Figueroa and her advisor, Professor Andrew P. Tarko investigated the VIDEO-BASED EVALUATION OF DRIVER PERCEPTION OF RISK ON 4-LANE HIGHWAYS.

An understanding of driver risk perception and its factors is essential in designing safe highways and improving driving conditions. A perceived hazard does not always reflect the probability of crash and the possible magnitude of loss. There are hazards in highways that drivers do not perceive. Although decades of intense research have resulted in models linking highway geometry with crash rate, the relationship between risk perception (subjective risk) and crash rate (objective risk) is still to be researched. Our study offers the opportunity to identify and measure driver risk perception which will likely lead to demonstrating the relationship between objective and subjective risks.

The investigation of risk perception while driving will include individual risk rating at considerably varying driver speed and in diversified roadway characteristics presented in a sequence of video clips. At the end of the study, a multi-factorial analysis of the relationship between the perceived risk, the crash rate, and the preferred speed will be performed.

■ **Shuichiro Miwa's** summarizes his summer SURF experience. "This summer, I worked with Professor Jafvert on his research project concerning the photochemistry of pollutants in the aqueous environment. My summer began with coding Visual Basic (VBA) Macros in Excel to download solar irradiance data (UV-B) from the web. The specific data I downloaded was a year's worth of data collected at 3 minute intervals at a USDA monitoring station at the Purdue Agronomy Farm. I also spent a number of weeks rewriting a program into VBA, based on the existing FORTRAN program GCSOLAR that predicts total solar flux anywhere on the globe as a function of time. I also performed solar photochemical experiments on the roof of the Civil Engineering building with a chemical actinometer to experimentally determine solar light flux, comparing this measured value to those obtained by the other methods. This summer, I have had an opportunity to learn more about environmental chemistry and to read numerous research papers by various researchers. It has been a tangible experience since I have an intense desire to continue my education in graduate school. The SURF program enhanced my perspective toward environmental engineering."





Bowen Laboratory Update

A substantial number of research projects are now underway in the Robert L. and Terry L. Bowen Laboratory for Large-Scale Civil Engineering Research. Faculty, staff, and students began moving into the new facility prior to the start of the spring semester and now have seven ongoing structural and geotechnical research projects in the laboratory plus five new structural and materials projects that got underway at the start of the fall semester. With the influx of new research projects, which include investigations on earthquake-resistant design of buildings and bridges, fatigue behavior of steel bridges, and fire-resistance of building connections, it is anticipated that the primary testing space in the high-bay portion of the laboratory will be filled within the next few months.

The start of the spring semester also marked the arrival of the laboratory's new director. Michael E. Kreger joins the School of Civil Engineering after serving on the faculty at the University of Texas at Austin for more than 20 years. He recently completed a three-year term there as the director of the Phil M. Ferguson Structural Engineering Laboratory. In June, Fred Mannering, head of the School of Civil Engineering, appointed Robert J. Frosch, associate professor in the School of Civil Engineering, to the position of associate director of the laboratory. Robert will assist Michael in the day-to-day operations of the laboratory.

Joint Transportation Research Program

The Joint Transportation Research Program (JTRP), known earlier as the Joint Highway Research Project, was established in 1937 by a state statute as a cooperative research endeavor between Purdue University and the Indiana State Highway Commission (now the Indiana Department of Transportation). As Indiana's transportation system evolved over the last six decades, JTRP's research changed as well to include the ever-broadening and complex issues that affect our transportation network. Current projects involve a wide range of topics from materials, geotechnical, structures, and construction to traffic operations, transportation security, ITS technologies, financing, and transportation policy. Not only has JTRP contributed to improving Indiana's transportation system, but its funding also has contributed to the education of hundreds of graduate students at Purdue University, who have gone on to become the movers and shakers in transportation in the United States and around the world, including cabinet ministers, directors of transportation, chief engineers, and company executives. Many JTRP-funded graduate students remain right here in Indiana too, working for state and local agencies, contractors, and consultants; and many of the decisions they make rely on the information provided by the research program. An important conduit for JTRP's technology transfer is the Annual Purdue Road School, which is now in its 90th year. The oldest conference of its kind in the nation, Road School attracts over 1,500 attendees each year.

**1939 »**

Edith M. Buck (BS '39), Chicago, IL—Edith's husband Ross Buck was a CE alum (BSCE '37). With the arrival of a 6th great grandchild in June, Edith says, "5 should be Purdue prospects!"

1949 »

Mel F. Seidenberg (BSCE '49), Skokie, IL—Mel retired from Edwin Hancock Engineering Co. and since has been substitute teaching in the Wilmette, IL school system.

Gilmore C. Abplanalp (BSCE '49), Franklin, IN—Gilmore retired from Freese & Abplanalp. He serves on the Advisory Board of First Indiana Bank.

1951 »

Lt. Col. Richard O. Albright (BSCE '51, MSCE '54), Carmel, IN—Albright is one of the 9 inductees to the Purdue University Tri-Services ROTC Hall of fame. Service to the nation, service to the community, and outstanding leadership in the fields of business, government, education or other professional fields are used as the basis for selection.

1955 »

Francisco (Paco) M. Abascal (BSCE '55), Aventura, FL—On August 14th Paco celebrated the golden anniversary of his graduation from the Universidad Central De Venezuela. After receiving his BSCE from Purdue University in 1955, he obtained his MS degree in Hydraulic Engineering from the University of Iowa in 1958. In 1979, he completed his MS in Business from the University of Wisconsin-Madison. Now retired, Paco and his wife of 47 years have four sons, a daughter, three grandchildren and live in south Florida. They travel frequently to his home country, Venezuela, where 3 of his children reside.

1956 »

Bob Elliot (BSCE '56), Sanibel, FL—Bob is President Emeritus of Midwestern Engineers, Inc. in Loogootee, IN. He is now a resident of Sanibel, Florida and is serving on the Board of Directors of Shell Harbor



Property Owners Association. He has joined United States Power Squadron & Sanibel-Captiva chapter of USPS and completed five (5) boating courses under the USPS having reached the title of pilot. He is also a member of ASCE, NSPE, ISPE and AWWA.

1958 »

Joseph R. Schleter (BSCE '58), Veedersburg, IN—Joseph has his PE in Indiana. He is retired after working in heavy construction for 5 years in Texas, Colorado, and Alabama, 11 years at INDOT, and 18 years with highway construction in Indiana. He has 3 sons and 6 grandchildren.

1960 »

Joe Barcy (BSCE '60), Los Angeles, CA—Joe was recently promoted to Unit Head of Facility Contract Invoice Unit of the Los Angeles Unified School District (staff of 42). They approve \$1.6 billion per year in contractor payments. His wife, Sophie, continues to receive honors for her efforts and support of LAPD in community based policing activities. She is a board member and officer of PALS and VST.

1963 »

Ronald C. Sonntag (MSCE '63), Greendale, WI—Ronald is the recipient of the Wilbur S. Smith Award (2003) from the American Society of Civil Engineers (ASCE) for a lifetime of outstanding service to engineers through teaching and research. The Smith award is conferred on the person judged to have most enhanced the role of the civil engineer in highway engineering. Sonntag joined the faculty of Marquette University in 1995 after 33 years with the Wisconsin Department of Transportation.

1965 »

James Willson (BS '65), Carmel, IN—James Willson, P.E., solution development leader, Honeywell International, Indianapolis, Indiana, was installed as director and regional chair of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). ASHRAE, founded in 1894, is an international organization



of 55,000 persons with 160 chapters and members in 128 countries. As director and regional chair, Willson serves on ASHRAE's Board of Directors and as Chair of the Society's Region V, which covers Indiana, Lower Michigan and Ohio.

1968 »

Rear Admiral Thomas A. Dames (BSCE & MSCE '68 and Ph.D. '72), Lone Tree, CO—For many years in the '60's one wing of one floor of the Civil Engineering Building was unaccountably not air conditioned. It was called the "traffic lab" and since no one visited, a lot of great research was conducted in this room. Here are three exiles, proud to be Boilers.

1976 »

Paul K. Male (MSCE '76), Saratoga Springs, NY—Paul is the past President of Schenectady Boys & Girls Club, past Assistant Chief of the Grand Boulevard Fire Company, a member/EMT of Wilton Emergency, Inc., past Chairman of APWA Capital Branch, ASCE Program Evaluator for TAC/ABET since 1976, and ASCM-TAC/ABET Board Member.

1984 »

Eduardo A. Gandolfo (MSCE '84), Miami, FL—Eduardo is under SBA's 8(a) Program until 12/07. Some of their best clients are: U.S. Coast Guard Homestead Air Reserve Base, U.S. Customs, and the U.S. Army Corps of Engineers. Work is successfully concentrated in the Federal Contracts market with a goal to achieve multimillion dollar contracts. They are also HUB zone certified contractors.

1987 »

Khalid Bazmi (MSCE '87), Anaheim Hills, CA—Khalid joined the city of Corona, California, in 2000 as Principal Civil Engineer heading CIP/Inspection divisions. A member of ASCE and APWA, Khalid, his wife Shahla, and two daughters, Saba, 11 and Sanam, 8 live in Anaheim Hills, California.



1999 »

Lee Yeung (BSCE '99, MSCE '02), Sacramento, CA—Lee's recent work involvement includes wastewater process design for local municipalities, storm water pollution prevention and toxicity investigation. She is married to Karl Cheng (MSCmpE '02) and they have a son, Kaiser.

Yassir Abdel Razig (Ph.D. '99), Tallahassee, FL—Yassir has been awarded the FSU CRC Cornerstone grant (\$100,000) to investigate the application of GIS coupled with satellite images to assess infrastructures. ■



(from L to R)

Mike ('57) and Jane Surig are big winners at the fall CE breakfast.

CE Advisory Board member Angela Jenkins (MS '89) and her son DeMarkus King at the fall CE breakfast.

Joe (BSCE '58) and Nancy ('60) Schlechter win Joe Tiller signed football at the Indy Alumni Reception.

Jim Fletcher ('67, MS '68) wears his senior cords from 1967.

Mark Josten ('80, MS '81) and John Dickerson (2000) at fall CE breakfast.

(pictured below from L to R) Tom Hillegass (MSCE 1966), Charlie Schimpeler (Ph.D. 1967) and Tom Dames (BSCE & MSCE 1968, Ph.D. 1972).



Civil Engineering Alumni Achievement Awards



The 2003 Civil Engineering Alumni Achievement Awards were presented on February 19, 2004 to (from L to R) Michael C. Natali (BSCE 1972), Robert K. Law (BSIDE 1973, MSCE 1974), Hugh J. Campbell, Jr. (Ph.D. 1972), Lou M. Smith (MSCE 1975) and Paul F. Mlakar (Ph.D. 1975) »

HUGH J. CAMPBELL, JR.
Ph.D. 1972

*Environmental Manager,
E.I. DuPont de Nemours & Company*

Hugh Campbell received both a Bachelor of Science degree and a Masters of Science degree from The University of Maine where he majored in civil engineering. He was deeply influenced by professors Otis Sproul, Millard (Wayne) Hall, and Purdue Alumnus, Franklin Woodard. The culmination of the master's thesis "Electrically Induced Removal of Lignin from Kraft Mill Wastewaters," was presented at the 25th Annual Purdue Industrial Waste Conference in May of 1970. Attendance at this prestigious international conference and the interactions with the participants made a lasting impression on him.

- Based on the strong recommendation of Dr. Woodward, Hugh entered Purdue University in the fall of 1970 to start his doctoral work in the School of Civil Engineering. While at Purdue, Hugh developed a close working relationship with two legends in the field of environmental engineering, Dr. James Etzel and Professor Donald Bloodgood. Dr. Etzel served as his major professor for a Ph.D. thesis entitled "Minimizing Solids Losses in Regeneration of Sodium Cation Exchangers" (1972).
- Again, thanks to Dr. Etzel, Hugh got the opportunity to obtain a position with DuPont in December, 1972. In the DuPont Engineering Department, Hugh was a wastewater consultant for many DuPont sites around the world. He traveled widely in the

United States and Europe during his 16 years as a DuPont consultant. In 1988 he was promoted to management of environmental professionals and technical programs.

- He has managed water, wastewater, solid/hazardous waste, geological engineering, underground injection, and remediation programs focusing on: 1) legislative/regulatory advocacy at federal and state levels, 2) innovative technology programs for cost-effective remedies, and 3) prioritization of corporate remediation needs. He is one of 4 managers responsible for remediation programs at 130 manufacturing sites around the world and 100 Superfund sites in the United States with annual budgets of \$70-90 million and a corporate group of 50 professionals assisted by 120 alliance contractors. He leads the corporate Underground Injection Control (UIC) program for DuPont that includes training, advocacy, and technical operations and compliance assistance.

ROBERT K. LAW

BSIDE 1973, MSCE 1974

Chief Estimator,

Charles Pankow Builders, Ltd.

Robert Law was one of the first graduates of Purdue's interdisciplinary engineering program allowing him to place emphasis on structural engineering and building construction. His masters program was built around construction management and resembled what would later become the construction engineering and management program.

- In 1974, Bob joined the late Charlie Pankow (CE '47, Hon Ph.D. '83) and his company as a field engineer. He worked on several office buildings, parking structures and retail malls that incorporated innovative engineering and building techniques advanced by the Pankow organization. After three years in the field, Bob was promoted to project superintendent and managed the renovation and expansion of the South Shore Plaza Regional Mall and the new 525,000 square feet parking structure in Braintree, Massachusetts.

- Bob's years of experience provided a strong foundation in the understanding

of how high-rise commercial buildings are designed and constructed, and it complemented his engineering education. The philosophy at Pankow "to stretch the envelope of building structural solutions" was a perfect fit for Bob. To make new ideas work, it is necessary not only to know the best way to build, but also to be able to communicate with the structural engineers who help make it happen. Bob's structural engineering understanding and constructability experience has helped move many new ideas from the testing lab to the jobsite. An example of this is the use of the architectural precast concrete seismic moment resistant frame, developed by Pankow, in a 39-story building, "The Paramount", located at the corner of 3rd and Mission Street in San Francisco. This is the tallest precast concrete frame building in Seismic Zone 4.

- In his role as chief estimator and with the use of the design build project delivery method, his design teams incorporated both new technologies, and "tried and true" construction methodologies into the design and construction of new and renovated buildings. During his 30 years at Pankow, he helped design and layout the structural framework for office buildings, hotels, parking structures, arenas, shopping centers, high-rise luxury condos, apartments and other buildings that total in the billions of dollars. With this team approach and philosophy, he was able to use the problem-solving attitude of the engineering method that he learned at Purdue to help make projects economically feasible for his owner clients. Of his many accomplishments at Pankow, he is particularly proud of developing and implementing Pankow's cost estimating and cost history system.

PAUL F. MLAKAR

Ph.D. 1975

Senior Research Scientist, U.S. Army Engineer Research and Development Center

Paul Mlakar graduated second in the class of 1966 from the United States Military Academy. Inspired by the competence of two of his engineering professors, he followed their paths to Purdue where he completed his master's

program in 1968. He completed his PhD in absentia in 1975.

- In 1968-1969 CPT Mlakar served in various engineer command and staff positions in the U.S. and Vietnam. Upon his return from overseas he supervised the construction of military and civil works projects in the Denver Area Office of the Corps of Engineers. From 1970-1973 he served on the faculty of the U.S. Military Academy as an assistant professor of mechanics.

- Paul joined the U.S. Army Engineer Waterways Experiment Station (WES) in 1973 as a research engineer. He soon developed the first rational procedure to analyze the response of fortifications to direct hits from exploding rounds that is the practice today. He subsequently contributed to the development of a rational and practical procedure to estimate the response of concrete dams and other hydraulic structures to seismic loadings that has resulted in the increased safety of these critical facilities.

- In 1984 Dr. Mlakar founded and led the Structures Division of JAYCOR as a vice president. This group transferred the technology the military used to design protective structures to the design of embassies and other visible targets against terrorist bombings. They also invented a patented air cargo container hardened to resist the effects of internal blasts that improves the safety of commercial aviation against explosives.

- In 1995 Paul rejoined WES as the chief of the Concrete and Materials Division. In 2000 he became the technical director of the U.S. Army Engineer Research and Development Center responsible for research in transportation engineering and off road mobility. In 2003 he was promoted to the position of senior research scientist for Weapons Effects and Structural Dynamics (WES).

- Shortly after the September 11, 2001 crash at the Pentagon, Dr. Mlakar was selected by the American Society of Civil Engineers (ASCE) to lead a building performance study team. The published results of this study now guide the engineering profession in designing structures to reduce the probability of progressive collapse from unusual extreme loadings.

This material also provided the basis for the impressive and insightful science-based simulation and visualization of the event completed as a joint project with Purdue's civil engineering, computer science, and computer technology departments with generous support from ITaP (Purdue) and the National Science Foundation.

MICHAEL C. NATALI

BSCE 1972

President

Fink Roberts & Petrie, Inc.

Mike studied in the School of Civil Engineering at Purdue University. Because of his strong academic record, Mike was allowed to follow his interest and concentrate in structures as an undergraduate student. He took several electives in structural analysis and design.

- In 1977, after several short-term work assignments, Mike joined Fink Roberts & Petrie, Inc. (FRP), a consulting engineering firm in Indianapolis. At FRP, Mike worked on the structural design of many large-scale projects, first as a project engineer and later as a project manager. His experience included university projects, sports facilities, healthcare and research buildings, office buildings, and parking structures. Mike's experience encompassed structural design in cast-in-place concrete (conventional and post-tensioned), precast concrete, and structural steel. His project experience includes the RCA Dome, Indiana Government Center South, the Indianapolis International Airport Parking Structure, the 101 West Ohio Street Office Tower, and many projects for Indiana University.

- In 1991 Mike became the head of the Structural Engineering Department and was then named president of FRP in December, 1997. FRP has continued to provide structural engineering for many signature projects in Indianapolis including Circle Centre Mall, Conseco Fieldhouse, the Indiana State Museum, and the Indianapolis Motor Speedway Control Tower. Recently, FRP was awarded the contract to be Structural Engineer of Record for the proposed Midfield Terminal at the Indianapolis International Airport.

- Mike has been the structural engineer for several new buildings on the Purdue University Campus including the Aquatic Center, Rawls Hall, the Visual & Performing Arts Center, the Stadium Avenue Dining Court, and the proposed Millennium Engineering Building.

LOUIS M. SMITH

MSCE 1975

Chief Administrative Officer

San Diego City Schools

Rear Admiral, Civil Engineer Corps, U.S. Navy

(Retired)

Louis M. Smith joined the United States Navy in 1970. Five years later, while stationed in West Lafayette, he was able to complete a master's program in the Purdue School of Civil Engineering.

- From West Lafayette, he was sent to Omaha, Nebraska, for an exchange tour with the United States Air Force's Strategic Air Command, programming maintenance for their bases. From Omaha, he was sent to his first tour in Washington, D.C., where he had a chance to work with members of the U.S. Department of Defense and United States Congress on military construction projects for many bases. Lou left Washington to become the public works officer in Keflavik, Iceland. The tour in Iceland was followed by more time on the Secretary of the Navy's staff in Washington, D.C. This time, Lou's love of numbers led him into the comptroller's office, where he served as a budget analyst overseeing the United States Navy's \$3.2 billion facilities maintenance budget. All of these hours in the Pentagon and on Capitol Hill were rewarded with a promotion and an assignment in San Francisco in 1987 as the head of the navy's west coast construction, overseeing 31 construction offices in 26 western states. Lou's next command was that of the Navy's Public Works Center in San Diego. This organization had 3,200 employees and annual revenue of \$360 million. It provided maintenance, repair, construction, utilities and engineering support for over 425 navy tenant activities in the bustling San Diego area.

- Back to Washington, D.C. in 1994, he was promoted to Rear Admiral Louis Smith. Again he served in the Pentagon,

this time as the director of shore activities for the Chief of Naval Operations. He was directly responsible for more than 360 naval bases world-wide, as well as sensitive programs like base realignment and closure.

- In 1998, as a two-star admiral, Lou took command of the Naval Facilities Engineer Command, a naval systems command with over 18,000 employees worldwide. This Command was responsible for over \$8.2 billion in worldwide construction projects, from nuclear carrier piers in San Diego to industrial waste incinerators in Japan. Also, during this time, the Command planned and coordinated the last disposal of Vietnam-era napalm supplies for the Air Force. Lou was also in charge of the navy's civil engineers.

- Lou retired from the Navy in late 2000. He continued his career in the public sector by working for the San Diego Unified School District (SDUSD) and helping it execute a \$1.5 billion school bond passed in 1998. Lou is now the head of all administrative operations for the SDUSD, the second-largest school district in California. ■

For William M. Lyles, graduating from Purdue seemed like an act of fate. "I was in the Derby Parade in 1935, the year my father graduated," he says. "I wore a sweatshirt that read 'CE '55.' And sure enough I graduated from Purdue twenty years later."

Written in the Stars

Lyles grew up in California, where his father and mother started their own construction company in

1945. Lyles began working on the construction crews of the family business when he was only twelve years old. "I knew very early that I wanted to follow in my parents footsteps," Lyles says. A high school graduate six years later, Lyles returned to Purdue where he tailored his coursework to fit his future plans. "At that time, no schools that I know of had construction management in their programs," Lyles says, "so I kind of created my own construction engineering management program." This self-orchestrated curriculum included civil engineering, accounting, labor relations, and economics, supplemented by other business type courses. "I may not have got it started," Lyles says, "but I certainly did it before it was created."

A Family Affair » Family ties with Purdue run deep for Lyles, himself a third generation engineering legacy. "My grandfather was H.G. Venemenn, who is listed as one of the teachers of the year on the board outside the student union," Lyles says. Venemenn, a recognized expert on refrigeration engineering, taught an undergraduate course in heat and power technology one semester and Lyles enrolled in the course. "So I had my own grandfather as a professor," he says.

Lyles was also a "half-miler" on the Purdue track team and a member of the Purdue Glee Club. After graduation, Lyles served two years as a construction officer in the Civil Engineering Corps of the U.S. Navy, and then joined the family business in 1957.

"I figured I wasn't brilliant enough to invent something that was patentable, and I wasn't lucky enough to hit a gold mine or an oil well," Lyles says. "So I thought I would go back and try to be a part of a little bit of something my parents began in at the end of World War II; I wanted to work and build the family business."

When his father passed away in 1965, Lyles moved into management and assumed full leadership in 1972. "I realized in my sophomore year at Purdue that every time I received some honor or some success I was thrilled to death for a short time," Lyles says, "but then I would always say 'What next?' I learned that achievement is important, but balance in one's life is essential for long term success and happiness; balance in your duty to your family, your community, your religion, and your work"

Driven to Succeed » This approach has taken the construction business that Lyles's parents began at the end of World War II into a corporate expansion that now includes heavy construction, manufacturing, real estate development, real estate ownership, and agriculture.

In 1987, Lyles Diversified, Inc. financed the purchase of Pelco, a small circuit television manufacturer. Lyles Diversified, Inc. and key management each own 50% of this unusual partnership which has produced a forty fold growth since 1987. The company now employs 1,500 workers and is currently the world's largest manufacturer of video security equipment. ■

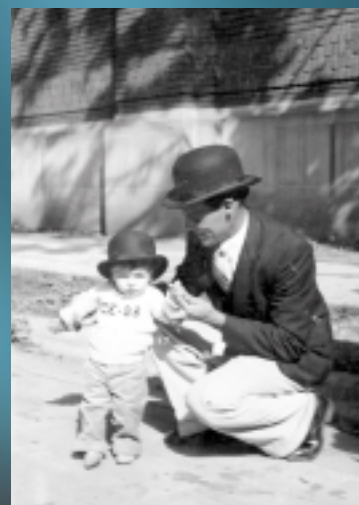
Written by Russ Brickey, Purdue Graduate Student, Engineering Communications Office



WILLIAM M. LYLES
BSCE 1955

*President and CEO
Lyles Diversified, Inc.*

It was fate that Bill Lyles would graduate from Civil Engineering in 1955. Shown below with his father, William M. Lyles, Jr. (BSCE '35), Bill is wearing a 'CE 55' sweatshirt in the 1935 Derby Parade, the same year his father received his CE degree from Purdue University.



Every effort has been made to ensure that the information is accurate. Please let us know of any changes.

Donors contributing \$250 or more annually to the School of Civil Engineering are recognized through membership in the Civil Engineer's Club. Members are listed on the "Bountiful Tree" display on the main level in the Civil Engineering Building. Other Engineering and University recognition clubs are:

President's Council
Annual gifts totaling \$1,000 anywhere within Purdue University, including those dedicated to Civil Engineering

Dean's Club Lifetime
Cumulative gifts of \$50,000 or more, or a lump sum gift of \$25,000 or more

Dean's Club Benefactor
Annual gifts totaling \$2,500 to \$24,999

Dean's Club Sponsor
Annual gifts totaling \$1,000 to \$2,499

Dean's Club Annual
Annual gifts totaling \$500 to \$999

Engineer's Club
Annual gifts totaling \$250 to \$499

**Thank you
for your
generous
and loyal
support.**



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Cumulative gifts of \$50,000 or more or one-time gifts of \$25,000 or more »

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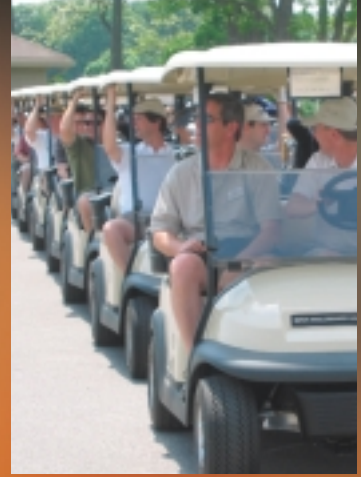
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 Procter & Gamble Company, *Cincinnati, OH*
 Royal Philips Electronics N.V., *Amsterdam, NY*
 NETHERLANDS
 SBC Communications Inc., *San Antonio, TX*
 Science Applications International Corp,
San Diego, CA
 Shell Oil Company, *Houston, TX*
 State Farm Insurance Companies, *Bloomington, IL*
 Turner Corporation, *New York, NY*
 Union Pacific Corporation, *Princeton, NJ*
 Vulcan Materials Company, *Birmingham, AL*
 Walt Disney Company, *Burbank, CA*
 Washington Group International, Inc., *Boise, ID*
 Waste Management, *Lombard, IL*
 Whirlpool Corporation, *Benton Harbor, MI*
 Williams Companies, *Tulsa, OK*
 Wisconsin Energy Corporation, *Milwaukee, WI* ■

Corporate/Foundation
 Donations to Civil Engineering

In Memorium

1900'S »

Ralph E. Dodge (BSCE 1904), *San Francisco, CA*
 Roscoe L. Davis (BSCE 1908), *Independence, MO*
 Roy H. Wilson (BSCE 1909), *Jacksonville, FL*
 Joy R. Klumpp (BSCE 1910), *Sausalito, CA*
 Oscar E. Monninger (BSCE 1914), *Miami, FL*
 Morris Zirin (BSCE 1914), *Elizabeth, NJ*
 William C. Briggs (BSCE 1918), *Columbus, OH*
 Rex R. Martin (BSCE 1919), *Metropolis, IL*

1920'S »

Miguel Y. Garcia (BSCE 1922), *Quezon City, PHILIPPINES*
 James H. Jones (BSCE 1922), *Fort Wayne, IN*
 Thad A. Kay (BSCE 1917, BSIDE 1922), *Wickenburg, AZ*
 Clare W. Kime (BSCE 1923), *Inkster, MI*
 Ralph W. Riser (BSCE 1924), *Lilburn, GA*
 Hubert L. Thomas (BSCE 1924), *East Wenatche, WA*
 Thomas P. Holan (BSCE 1925), *Columbia Station, OH*
 Arthur W. Thomas (BSCE 1925), *Vero Beach, FL*
 David Abbott (BSCE 1926), *Springfield, IL*
 Baldy Vinson (BSCE 1926), *Little Rock, AR*
 Albert C. Leiter (BSCE 1927), *Chicago, IL*
 Edward H. Schnitker (BSCE 1929), *Los Altos, CA*
 Kenneth W. Wysong (BSCE 1929), *Nashville, TN*

1930'S »

Dean E. Stephan (BSCE 1930), *Hollis, NH*
 Howard F. Gebhart (BSCE 1931), *Arlington, VA*
 Francis B. Noonan (BSCE 1931), *Champaign, IL*
 Chauncey H. Ladd (BSCE 1932), *Hudson, WI*
 Daniel Martin Meecker (BSCE 1932), *Toledo, OH*
 Paul A. Noran (BSCE 1932), *Falmouth, ME*
 Clyde W. Steele (BSCE 1932), *Chicago, IL*
 Harold K. VanDeripe (BSCE 1932), *Syracuse, IN*
 George O. Ashman (BSCE 1933), *Sugar Land, TX*
 George W. Fonken (BSCE 1933), *Hills, IA*
 Charles L. Luther (BSCE 1934), *New Albany, IN*
 Albert W. Robinson (BSCE 1934), *Chicago, IL*
 Richard P. Rodenbaugh (BSCE 1934), *Holiday, FL*
 Col. (Ret.) Floyd Roscoe Moore (BSCE 1935), *Coronado, CA*
 Lt. Col. (Ret.) George T. Buchmeier (BSCE 1936, MSCE 1951), *Issaquah, WA*
 George A. Holderbaum (BSCE 1936), *Quincy, IL*
 Damon H. McFadden (BSCE 1938), *Centralia, WA*
 Harold E. Schellhase (BSCE 1938), *Vincennes, IN*
 Herbert C. Boyer (BSCE 1939), *Sun City Center, FL*
 James A. Hufford (BSCE 1939), *Alexandria, LA*

1940'S »

Gilbert E. Baumle (BSCE 1940), *Winona Lake, IN*
 Charles Anthony Bredes (BSCE 1940), *Pittsford, NY*
 Robert M. Hettema (BSCE 1940), *State College, PA*
 Kenneth C. Houston (BSCE 1940), *Arlington, VA*
 Clarence E. Jackman (BSCE 1940), *Cape Coral, FL*
 Carlton K. Jackson (BSCE 1940), *Birmingham, AL*
 George W. Danner (BSCE 1941), *Waukesha, WI*
 Paul L. Hamman (BSCE 1941), *Sarasota, FL*
 Albert D. Lewis (BSCE 1941, MSCE 1951), *West Lafayette, IN*
 George E. Olson (BSCE 1941, MSCE 1942), *Cocoa Beach, FL*
 William H. Wells (BSCE 1941), *Canton, OH*
 Warner Ohman (BSCE 1942), *Green Valley, AZ*
 Capt. Miller J. Tonkel (BSCE 1942), *Anderson, SC*
 John L. Traugott (BSCE 1942), *Berkeley, CA*
 Robert V. Youkey (BSCE 1942), *Owens Cross Roads, AL*
 George P. Siu (BSCE 1943), *Honolulu, HI*
 Charles F. May (BSCE 1944), *Neeah, WI*
 Paul A. Uber (BSCE 1945), *Cincinnati, OH*
 Donald L. Pyke (BSCE 1946), *Santa Barbara, CA*
 Morris N. Kaastad (BSCE 1947), *Fort Worth, TX*
 Jesse E. Crim (BSCE 1947), *Naples, FL*
 Robert K. Nicoson (BSCE 1947), *Tucson, AZ*

Charles J. Pankow, Jr. (BSCE 1947, HDR 1983), *Altadena, CA*
 Robert G. Flannery (BSCE 1948, HDR 1985), *Hillsborough, CA*
 James C. Mosley (BSCE 1948), *Laguna Wood, CA*
 Ralph C. Mullinnix (BSCE 1948), *Indianapolis, IN*
 Robert L. Yost (BSCE 1948), *Lafayette, IN*
 James E. Ballinger (BSCE 1949), *Costa Mesa, CA*
 Kenneth G. Fields (BSCE 1949), *Chicago, IL*
 Jack V. Mosby (BSCE 1949), *Longview, TX*
 Norris L. O'Connor (BSCE 1949), *Valdosta, GA*
 Paul M. Stutsman, Jr. (BSCE 1949), *Miami, FL*

1950'S »

Paul E. Jones (BSCE 1950), *Coconut Creek, FL*
 Edward W. Nitz (BSCE 1950), *Columbus, WI*
 Allen I. Sklare (BSCE 1950), *Indianapolis, IN*
 Gus G. Stangas (BSCE 1950), *South Bend, IN*
 Tom G. Stangas (BSCE 1950), *South Bend, IN*
 Leland H. Carter (BSCE 1951), *Bossier City, LA*
 Robert C. Rice (BSCE 1951), *Novato, CA*
 Rolland E. York (BSCE 1951), *Anderson, IN*
 Edward S. Lightfoot (MSCE 1951), *Albuquerque, NM*
 Charles E. Mergentime (BSCE 1953, HDR 1993), *Flemington, NJ*
 Joseph C. Patrick (BSCE 1953), *Manville, NJ*
 George E. Squires (BSCE 1954), *Indianapolis, IN*
 Robert A. Wright (BSCE 1954), *Chesterfield, MO*
 Raymond S. Gordon (MSCE 1954), *Charlotte, NC*
 William P. Procter, Jr. (MSCE 1954), *Suisun, CA*
 H. Stewart Kline (BSCE 1956), *Lafayette, IN*
 John G. McGuire (BSCE 1956), *Monroe, WI*
 Donald L. Osha (BSCE 1956), *Palm Beach Gardens, FL*
 W. Charles Brandt, Jr. (BSCE 1957), *Zionsville, IN*
 Robert E. James (BSCE 1957), *Anderson, IN*
 Mark W. Noe (BSCE 1957), *Sonoma, CA*
 Edward C. Sumner IV (BSCE 1957, MSCE 1958), *Milford, IL*
 Ronald E. Huguenard (BSCE 1958), *Katy, TX*
 Gene V. McPherson (BSCE 1958), *Loveland, OH*
 Dayo L. Motwani (MSCE 1958), *Bayside, NY*
 Frederick G. Pohland (MSCE 1958, Ph.D. 1961), *Pittsburgh, PA*

1960'S »

J. Herbert Moore (Ph.D. 1961), *Blacksburg, VA*
 Lucien J. Mroczkiewicz (BSCE 1962), *Gladstone, OR*
 Rodney W. Johnson (Ph.D. 1962), *Bethesda, MD*
 Marshall B. Raidbard (BSCE 1963), *Cleveland, GA*
 James D. Schrader (BSCE 1966), *Lafayette, IN*
 Jerald L. Gick (BSCE 1968), *Colfax, IN*

1970'S »

Arturo E. Fournier (MSCE 1970), *Las Vegas, NV*
 John A. Hittlebaugh (BSCE 1970, MSCE 1971), *Gretna, LA*
 Robert H. Florence, Jr. (BSCE 1974, MSCE 1976), *Henderson, TN*
 Stanley L. Kirtley (BSCE 1975), *Crete, IL*
 T. William Patterson (Ph.D. 1976), *Lafayette, IN*

1980'S »

David P. Moffett (BSCE 1988, MSCE 1990), *Lafayette, IN*

1990'S »

Robert R. Fender (BSCE 1995), *Bridgeville, PA*

2000'S »

John A. Doyle (BSCE 2003), *Sellersburg, IN*

FRIENDS »

Edith M. Clark
 Esther L. McConaughay
 Marie G. Gordon ■



Charles Pankow »

Remembering Charles Pankow

October 6, 1923 – January 12, 2004

Charles Pankow received his Bachelor of Science degree from the School of Civil Engineering in 1947. Thirty-six years later he was presented with an Honorary Doctorate from Engineering by Purdue. He was not only one of our most distinguished and recognized alumni; he was a great friend and supporter of Purdue, especially the School of Civil Engineering. We will miss his caring friendship.

Charlie's love of construction and engineering led him to form Pankow Builders in 1963. Pankow Builders has constructed more than 1,000 structures between Hawaii and New York, including department stores, office and residential complexes, medical and sports facilities, including the tallest pre-cast concrete building on the West Coast. Recent projects in Los Angeles include the Metropolitan Transit Authority Headquarters and East Portal, the Metropolitan Water District Headquarters and Paseo Colorado in Pasadena.

Charlie was especially honored in 1999 to be recognized by the prestigious Engineering News-Record (ENR) as one of the Top Six World Builders during ENR's 125-year history. Charlie also received many other awards and peer recognition including the DBIA's Brunelleschi Medal for Lifetime Achievement in 2003; ASCE's 2002 Opal Award for Outstanding Lifetime Achievement in Construction; Purdue University's Distinguished Alumnus Award; ACI's Henry C. Turner Medal Award in 1990; Los Angeles Area Chamber of Commerce Award in 1993; and many others. ■



Stanley L. Kirtley »

We will also miss the caring support of Stanley L. Kirtley,

August 7, 1953 – January 26, 2004

another of our most distinguished and recognized alumni who received a Bachelor of Science Degree from the School of Civil Engineering, Purdue University in 1975.

While at Lindblom Technical High School on the south side of Chicago, Stan Kirtley and four of his closest friends were encouraged by their drafting teacher to enter the field of engineering. All five of these students selected Purdue and majored in various engineering programs. This group of five, along with one other Purdue engineering student from Chicago, founded the National Society of Black Engineers (NSBE) in April of 1975 at Purdue. This organization today has over 10,000 members with chapters around the globe. Stan has always been committed to increasing the number of African-Americans entering the field of engineering, especially Civil Engineering. He was a frequent speaker at inner-city high schools; he also mentors current engineering students and continues his ongoing involvement with NSBE.

In 1983, Stan served on Mayor Harold Washington's (Chicago) transition team, analyzing the city's Department of Public Works. He also served as a member of the Advisory Council for the School of Civil Engineering, Purdue University and served as secretary of the Purdue Black Alumni Organization (PBAO). Stan was active in various community and industry organizations. A kidney transplant recipient, he was chairman of the American Kidney Fund. He also served as president of the Healthcare Council of the International Facilities Management Association. In 1999, Stan Kirtley received an Engineering Service Award from the Purdue Engineering Alumni Association. In 2002, he was one of our own CE AAA recipients. ■

The School of Civil Engineering held a celebration of life to honor the memory of Leonard Wood, October 15, 2004.

Remembering Professor Leonard E. Wood » *(continued from page 3)*

» that Purdue enjoys.” Today, we would say that he was one of many taking Purdue to the level of Preeminence the University is striving to achieve. For nearly 50 years, Leonard Wood gave his expertise and guided students through Civil Engineering and, many, the Co-Op experience.

Although he had served as coordinator for more than 10 years, he had been involved serving the Purdue Schools of Engineering Co-Op Program since the early 1970’s. In fact, his roots with the Co-Op program began in his early teaching and research days of the late 1950’s. It was then when he shared an office with Civil Engineering’s first Co-Op Coordinator, William Kaye, that he realized how this unique program provided an important component of a student’s education.

As Coordinator for the program, Professor Wood developed job-sites for students to work during their years of study at Purdue. Typically, a student works one term and then studies on campus for the next term. Leonard Wood enjoyed working with both the employer contacts and the students. He enjoyed developing new job-sites, visiting his students at their jobs and also recruiting new students for the program. He monitored each student’s progress and was literally thrilled to watch each individual grow and mature professionally as they combined real work experience with their studies.

Leonard Wood visualized incoming students, in his own words, “as a handful of clay that has the potential to be molded into something beautiful and useful.” He said, “The Purdue professors and courses do the shaping. However, a vase has to be fired before it can become a work-of-art. The Co-Op job experience is the kiln for the student.” In other words, after students learn formulas and theories in the classroom, their Co-Op jobs force them to apply what they have learned, make decisions, and develop into professionals while experiencing the “fire” of the workplace.

When he retired from his teaching and research duties in 1993, he offered to remain in the school as a “volunteer” coordinator. According to the director of Purdue’s Cooperative Education Program, Robert Stwalley, III, Professor Wood’s valuable knowledge and experience combined with his love for the students made his contributions immeasurable. He worked full-time at making certain each student gained the best possible placement opportunity and experiences while challenging the students to make the most of their working environments.

Professor Wood also said, “Professors often remark that it is easy to spot Co-Op students since they generally pose interesting, well formed questions and appear to be better organized in the laboratory experiments and design courses such as their senior project courses. The university also benefits through an effective Co-Op program because of the opportunity it provides to develop ties with employers that lead to other programs and support.” Professor Wood not only believed in the Co-Op program, he exemplified what a Co-Op Coordinator can accomplish. Civil Engineering has, by far, the highest percentage yield rate of placements on campus.

Another aspect of the Co-Op program that Professor Wood believed in is that the program provides students the chance to acquire “those intangible talents such as poise, self-confidence, communication skills, and interpersonal skills- all at no cost to the student. Employers are willing to pay very good salaries to Co-Op students while they obtain those valuable skills. It is also a good form of job insurance for the students. Many students return to campus for their senior year with a job offer from their Co-Op company. Initial salary offers may be up to 25% higher for students who have participated in the Co-Op program.”

Professor Wood remarked that he had become friends with many of the Co-Op students. For example, he was working to complete a “Second Generation Co-Op” poster that included photos of former students’ babies. He kept in touch with a large number of the students he has placed in Co-Op positions over the years. In these volunteer/retirement years, he was thankful every day for the student interaction that the Co-Op program provides. Professor Wood believed in the good of the program and combined with his vast experience, he was able to help the students in every aspect as they transitioned from campus to job and back to campus. He truly loved his work and was committed to serving the students. He enjoyed riding his bicycle to work and also played handball to keep fit. His “retirement” could not have been any busier. His devotion to Civil Engineering, Purdue’s Cooperative Education Program and his students will be sorely missed by all. ■

Visit the CE Tribute web page: <https://engineering.purdue.edu/CE/Alumni/Friends/tribute>

The annual scholarship program was held on April 29, 2004.

Along with students, faculty and staff, the School was honored to have many of our donors attend to personally present their scholarships/awards. Students were pleased to have the opportunity to meet with them face to face. Immediately following the ceremony a reception was held in the CE Main Foyer.

■ Honored guests were Dr. Pai Tao Yeh, Dr. Terry Wood, Professor Emeritus Bill Goetz, Mr. Jim DePhillips, Professor Emeritus Jacques Delleur, the late Professor Emeritus Leonard Wood, Mr. Donald Bloodgood, Mr. & Mrs. Charles Miller and Mr. T. J. Short.

Congratulations to the 2004 – 2005 Scholarship and Award Recipients!



« **MARTIN J. GUTZWILLER AWARD**
Thomas McQuillan
Matthew Speicher

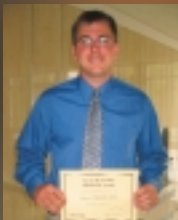
**JOHN R. BLANDFORD
MEMORIAL AWARD**
*Keith Sears



« **ELDON J. YODER
MEMORIAL AWARD**
Robert Milligan
Avery Rhodes
*Alexander Paz



« **EDWARD J. COX
MEMORIAL
TRANSPORTATION
SCHOLARSHIP**
Siew Hwee Kong
Euridice Oware



« **GERRIT H. TOEBES
MEMORIAL AWARD**
Nicholas Jahn



« **DON E. BLOODGOOD
MEMORIAL AWARD**
Donald Bloodgood
and Jessica Squires



« **MATTHEW EDWARD
KERN
ENVIRONMENTAL
ENGINEERING
SCHOLARSHIP/
FELLOWSHIP**
Kelley Pennell
Drew Bryenton



« **JULIE DEPHILLIPS
SCHOLARHIP**
Mr. James
DePhillips
shown with Rebecca
Lattyak



« **MYRTLE FORD TOMPT
AWARD**
Matthew Speicher



« ROBERT D. AND MARGARET J. MILES CE SCHOLARSHIP
Siew Hwee Kong



ALBERT JAMES HORTH MEMORIAL SCHOLARSHIP
« ENDOWMENT
Clint Roos
Guy Mazzotta
Mark Reinhard
Daniel Calabrese
Lora Boller



EDNA C. AND WILLIAM Y. H. LING CE SCHOLARSHIP
*Timothy Healy

« PAI TAO YEH SCHOLARSHIP
Dr. Pai Tao Yeh and Yi Hong



CIVIL ENGINEERING
« SCHOLARSHIPS
Matthew Kilgour
Aaron Fricke
Jessica Squires
Matthew O'Callaghan
Dann Barrett
Laura Jacobs
Christopher Carmien
Aaron Evans
*Lauren Hurst
*Christopher Stull



« R. G. "MIKE" FLANNERY AND ALBERT JAMES HORTH SCHOLARSHIP
Jesse R. Valencourt



« CHARLES E. MERGENTIME ENGINEERING SCHOLARSHIP
Jose Jaramillo

CHADWICK SCHOLARSHIP
*Lindsay Miller



HAROLD E. REIN SOCIETY OF AMERICAN MILITARY ENGINEERS SCHOLARSHIP
*Jonathan Lauer
*Adam Walters

KLEASEN SCHOLARSHIP FOR PRE-CIVIL ENGINEERING
*Eric Gnade

JOHN AND SHARON REYNOLDS CE SCHOLARSHIP
*Jennifer Baran

« WILLIAM AND MARY GOETZ GRADUATE FELLOWSHIP
Joan O'Brien and Professor Emeritus Bill Goetz



« O. M. & VIRGINIA FOXWORTHY SCHOLARSHIP
Shelley Finnigan
Jose Jaramillo
David Hosking
*Meredith Walton



« 2003-2004 TONY CLARK AWARDS
Clint Roos
Eric Uebelhor
Perry Pinto
Jose Jaramillo
Yi Hong
David Hosking
Dann Barrett
*Kristina Absher
*Adam Brandenburg
*Brian Dilworth
*Sebastian Fait
*Joseph Hoffmann
*Ryan Oliver
*Daniel Salazar
*Amy Smith
*William Walton

2004-2005 TONY CLARK AWARDS
*Taylor Bowditch
*John Bruck
*Cody Charnas
*Nicholas Fischer
*Patrick Flynn
*Katelyn Fox
*Brian Moore

*Not pictured.

(continued, 2004-2005
Tony Clark Awards) »

- *Matthew Noelker
- *Taijiro Oki
- *Peter Procaccio
- *David Ray
- *Andrew Saik
- *Elizabeth Skvarenina
- *Meredith Walton
- *Nicolas Woodruff
- *Walter Ziebell
- *Joshua Zvolanek



« MAMON AND
CYNTHIA R. POWERS
ENGINEERING
SCHOLARSHIP
Jarvis Jointer



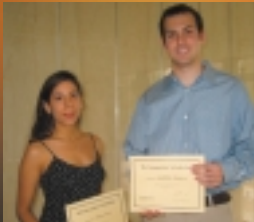
« CHARLES A. MILLER
CE SCHOLARSHIP
Jose Llenin
Mr. Charles Miller
Guy Mazzotta



« GREELEY AND
HANSEN ELMER F.
BALLOTTI MEMORIAL
FELLOWSHIP
T. J. Short from
Greeley and
Hansen
Rebecca Riano
Janna Stathyelich
Bradford Derrick
Jeffery Schmidt
Matthew Smith



« JOSEPH P. CHU
FELLOWSHIP
Chegyue Shen
Sybil Sharvelle
Salimol Thomas
Zorana Naunovic



« MCCONNAUGHAY
CIVIL ENGINEERING
SCHOLARSHIP
FELLOWSHIP
Eliana Vivar
Geoffrey Dauksas



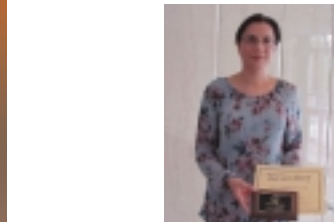
« OUTSTANDING
RESEARCH BY AN
UNDERGRADUATE
IN CONCRETE
MATERIALS
Bradley Pease



INDIANA CHAPTER
OF THE AMERICAN
CONCRETE INSTITUTE
SCHOLARSHIP
*John Krupski
*Guy Mazzotta



« JACQUES W. DELLEUR
AWARD
Mazdak Arabi
Professor Emeritus
Jacques Delleur
En-Ching Hsu



« WILLIAM L. WOOD,
JR. FELLOWSHIP
Erick Hahn
Dr. Terry Wood
Bradford Bohler

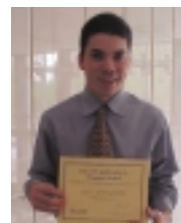


« MARTHA
DICKS STEVENS
FELLOWSHIP
Zorana Naunovic

« NELLIE MUNSON
OUTSTANDING
TEACHING
ASSISTANT AWARD
Tejas Murthy—
Contact
Euridice Oware
—Non-Contact



MARGARET AND
LEONARD WOOD
« LEADERSHIP AWARD
Thomas McQuillan
Professor Emeritus
Leonard Wood
Troy Larkins



ESTUS H. AND
VASHTI L. MAGOON
OUTSTANDING
TEACHING
« ASSISTANT AWARDS
Javier Gauthier
*Mazdak Arabi
*Stuart Maxwell
*Sulapha
Peethamparan

JOHN G. MCENTYRE
ISPLS SCHOLARSHIP
*Scott Thompson

FALK PLI SURVEYING
SCHOLARSHIP
*Luke Jahn



« JUD AND BETTY
ROUCH LAND
SURVEYING
SCHOLARSHIP
Clint Roos

« OUTSTANDING SENIOR
—LAND SURVEYING
Christina Hoy

FACULTY RECOGNITION
AWARD—LAND
SURVEYING
*Luke Jahn

MARGARET
CUNNINGHAM
MEMORIAL
SCHOLARSHIP
*Matthew Healy



CENTRAL INDIANA
CHAPTER (ISPLS)
SCHOLARSHIP
*Jennifer Hanigosky

« CHAPPELLE
FELLOWSHIP
David Konz



JOHN E. GOLDBERG
FELLOWSHIP
*Jonathan Hoeltke

« CELEBRATION OF
GRADUATE TEACHING
HONOREE
Stuart Maxwell



« OUTSTANDING SENIOR
AWARD—GRADUATE
STUDENT (PSEF)
Presented by Dean
Katehi and Professor
Garrett Jeong to
Andrew Nichols



OUTSTANDING SENIOR
AWARD—
UNDERGRADUATE
«STUDENT (PSEF)
Presented by Dean
Katehi and Professor
Garrett Jeong to
Jason Beck



CE AMBASSADORS

The success of CE Ambassadors continued to grow during its second year. This group is responsible to provide student support for the School in fostering relationships with alumni, parents, prospective students, existing students, faculty and the general public.

As a group Ambassadors participated in nine University or School related events, six 'student-perspective' panels in CE 290, and provided approximately 13 personal tours of the CIVL building to prospective students and their family members. The School benefited 85 total hours of volunteer time through these efforts.

(front from left)

Jessica LeRoy**, Dan Calabrese,
Cassie Gray**, Matt Speicher**, Lora Boller
Second: Christy Hoy**, Matthew O'Callaghan,
Laura Jacobs

(back from left)

Jarvis Jointer, Guy Mazzotta, Clem Kuns**,
Jason Beck**, Tom McQuillan**

*Not pictured: Tim Aldridge**, Jennifer Bain**,
Jennifer Baran, Tim Healy, Devin Keeler,
Jonathan Lauer**, Lindsay Miller,
Beth Steinbrenner, Melanie Williams***

**Graduate

If you are interested in
establishing a Scholarship
in the School of Civil
Engineering, please contact
Jim Brehm, CE Director of
Development, at 765.494.2236

*Not pictured.



SCHOOL OF CIVIL ENGINEERING IN 2005

"The ever-increasing need for highly trained engineers will require a significant investment for us all to ensure the ability to meet the challenges of the 21st century. I am fortunate that the Elizabeth & Stephen Bechtel Jr. Foundation has the means and now the opportunity to support Purdue's effort to fulfill this mission."

Stephen Bechtel Jr. »

BSCE 1946,

Honorary Doctorate 1972,

Chairman Emeritus

Bechtel Corporation

THE CAMPAIGN FOR PURDUE — CIVIL will enable the School of Civil Engineering to continue its tradition of excellence and fulfill its promise to become the nation's top civil engineering program. The school's success depends upon the contributions of all of its stakeholders — corporate partners, faculty, students and their parents, state and national constituents, and all 11,000 alumni. We invite you to contact us as you consider joining us in the effort to achieve our goals.

There are many ways for you to contribute to The Campaign for Purdue — Civil. You can increase your current levels of annual giving or make an outright gift, such as cash, property, gifts-in-kind, or appreciated securities. You can make a planned gift or a multi-year pledged commitment. Deferred gifts can have significant tax and planning benefits for you and your family. If you choose to establish an endowment, your gift will be invested in perpetuity and the annual income generated will be used to support the University needs you selected. Your gift can be targeted to a certain area, or it can be unrestricted, a fund which allows the school to seize and participate in new opportunities.

Every donation from our alumni and friends is crucial to achieve our vision. Every gift counts and will make a difference. For more information about your opportunity to be a part of the school's pursuit of excellence, please contact:

Fred Mannering
Professor and Head
765.494.2159
flm@ecn.purdue.edu

James D. Brehm
Director of Development
765.494.2236

School of Civil Engineering
550 Stadium Mall Drive
West Lafayette, Indiana 47907-2051

School of Civil Engineering Campaign Goals
July 2000 through June 2007

» Student Support.....	\$5.1 million
» Faculty Support.....	\$10.2 million
» Programs and Centers Support.....	\$2.4 million
» Facilities Support.....	\$10.2 million
» Unrestricted Gifts.....	\$5.8 million
» Total Support Sought.....	\$33.7 million

PURDUE
UNIVERSITY