



Ronald F. Wukasz

The colleagues, students, friends, and family of Ronald F. Wukasz are feeling the loss of one of Civil Engineering's premier professors. His untimely death on January 4 of this year saddened the many lives he touched. Most certainly, he held a special place in the School of Civil Engineering and in the hearts of those who knew him.

■ "Ron Wukasz was a great advisor, mentor and friend", says former student, Anron Atassi. His love for students was evident with the time he spent with them. Anron continued, "I had the opportunity to work with Dr. Wukasz on research, teaching and consulting. He inspired me with his great love for the environment and his outstanding approach to teaching.

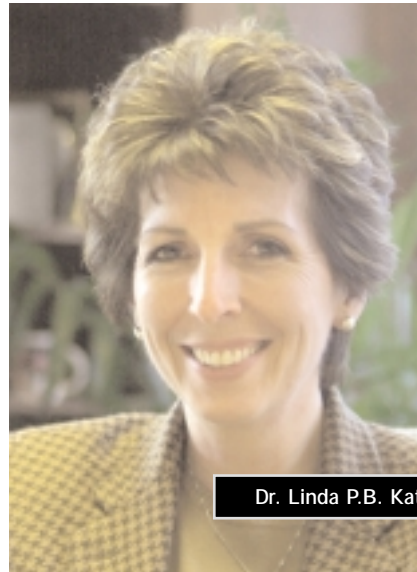
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INTERVIEW WITH Dean Linda P.B. Katehi

Civil Engineering welcomes Dr. Linda P.B. Katehi to Purdue as the Dean of Engineering. She comes to us from the University of Michigan where she was a professor of electrical engineering and computer science and also the associate dean for academic affairs in the College of Engineering. Katehi is the first women Dean of Engineering at Purdue and holds the title as Purdue's first John A. Edwardson Dean of Engineering.

■ In 1969, Purdue graduate Neil Armstrong became the first man to walk on the moon. At that time, Katehi was a young woman in Greece, fascinated by space exploration. She decided to study engineering. She was among only a few women studying electrical engineering at the National Technical University of Athens. She earned both her master's degree and doctorate at UCLA.

■ Katehi enjoyed her many years as professor and researcher, but eventually found that she could "make a great difference and have great impact as an administrator," she said. "This is a very exciting time to be dean," Katehi said. "Purdue is an excellent university already and it's in an excellent position to be even



Dr. Linda P.B. Katehi

better." In an article in the Lafayette, Indiana Journal and Courier, Katehi stated, "I am excited to have the chance to lead Purdue's 13 engineering schools at a time when a major effort is under way to make the university's key programs preeminent worldwide. "In some areas, we can't attract the faculty without the facilities," Katehi said. The schools are developing their own strategic plan. "Clusters of quality" will be identified — areas of strength targeted for investment to attract top researchers, graduate students, and grant funding.

continued on inside front cover

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Purdue University Civil Engineering



Transitions is published semiannually 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, 1284 Civil Engineering Building, West Lafayette, Indiana 47907-1284 or email: cenews@ecn.purdue.edu

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The new editor of Transitions, Suzanne Karberg, has been with Purdue since 1990 and joined the CE staff in 1994 to become the school's English teacher. She has taught CE's core course, "Oral and Technical Communications for Civil Engineers" for eight years and is now adding editing the newsletter to her teaching responsibilities. Although Mrs. Karberg loves the classroom, she is looking forward to editing again, especially to work with Don Fry, CE's development officer, and with the exciting leadership of the Head, Dr. Mannering and Dean Katehi. ♦

INTERVIEW WITH DEAN LINDA P.B. KATEHI

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Purdue's newest major engineering building, MSEE building and the Civil Engineering building addition were constructed in the late 1980s and many facilities are more than 50 years old. A \$400 million construction plan would provide the facilities needed for modern teaching and research, she said. "The capital campaign is well under way and we have had some major successes," she said. Katehi expressed how vital it is to have an active research environment. It is vital to help develop the state's high-tech economy, create good jobs and spawn spinoff companies. "With so much

investment in engineering we have to show the state that we can produce, and produce quality," she said. Dean Katehi is up to the challenge to help meet that quality needed from the Schools of Engineering. In a recent interview with Transitions editor, Suzanne Karberg, Dean Katehi explained that she feels balancing excellence in education with outstanding research occurs because our faculty teach graduate students how to solve problems and provide innovative solutions. Katehi added, "It is also becoming popular to introduce research elements into the undergraduate programs because research teaches students how to be innovative." ♦

The new design of *Transitions* is one example of the many exciting happenings currently underway in Civil Engineering at Purdue.



Dr. Fred Mannering

The School of Civil Engineering has a new strategic plan with the simple overall objective of being the preeminent civil engineering program in the nation. In the past year, Civil Engineering at Purdue has moved up in the *US News & World Report* rankings — from 6th to 3rd among civil engineering undergraduate programs. The future is going to be even brighter. As part of Purdue University's renewed strategic emphasis on engineering, Civil Engineering at Purdue is entering an unprecedented era of enriching and expanding its academic programs. In the next 5 years, 75 new faculty positions will be added to the 270 engineering faculty currently at Purdue, and a major investment in expanding engineering facilities will be made. As part of this, Civil Engineering will be poised to reach new levels of excellence. With a new strategic plan, a \$21-million dollar investment in upgrading research and learning facilities, a major fundraising campaign to increase the number of endowed professorships, student scholarships and

fellowships, and a multi-year expansion of faculty numbers, Civil Engineering at Purdue is indeed entering an exciting new era. Civil Engineering's strategic plan provides the map that will lead the School to preeminence <http://ce.www.ecn.purdue.edu/CE/Welcome/StrategicPlan2002d.pdf>. The plan contains 4 goals, 14 strategies for achieving these goals, and action plans and measurements for each strategy. Among other initiatives, the plan calls for the formation of 4 new committees. These committees have a number of important tasks including a review of the School's administrative structure. We will also develop plans for future faculty and staff hiring, a revised curriculum and for increasing the diversity of our students, faculty and staff.

- With regard to diversity, Civil Engineering has been a leader in student and faculty diversity in the Schools of Engineering at Purdue with a comparatively large percentage of women and underrepresented minorities. However, we are nowhere near where we want to

be. In the coming years, Civil Engineering will lead the way in developing an environment that is attractive to a diverse student and faculty body. All of our graduates will benefit from the resulting increase in diversity by gaining a better understanding of the technical and social issues, concerns and needs that will guide the course of their careers.

- In concluding, I would like to provide a few words on the passing of Professor Ron Wukasch. Ron touched and influenced the lives of countless students, faculty and staff with his commitment to teaching, his involvement in diversity issues, and his leadership in student engagement activities. He was an extraordinary individual — the perfect colleague, teacher, and friend. His untimely passing is a great loss for the School of Civil Engineering and Purdue. He will be sorely missed by all of us now, and for many years to come.

Fred Mannering
Head, Civil Engineering ♦

A final good-bye to Professor RON WUKASCH

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He is the main reason why many have selected Purdue CE over other programs. His death is a loss not only to his family and Purdue, but also to everyone that ever knew him or worked with him."

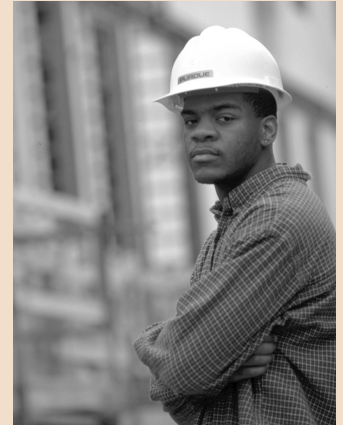
■ He had been a professor of environmental and hydraulic engineering at the Purdue University School of Engineering since 1973 and head of the school's environmental area from 1990 to 1996. He also was a registered professional engineer in the states of Indiana and Michigan.

■ Born March 30, 1938, in Chicago, he graduated from Luther High School North in Chicago in 1955 and graduated from Valparaiso University with a Bachelor of Science degree in civil engineering in June 1961. In January 1965, he received a Master of Science degree in civil engineering from Purdue University and in June 1966 a Ph.D., in civil environmental engineering from Purdue.

■ Ron's wife of 43 years, Ruth Nieman Wukasch, a professor of Nursing at Purdue, remembers that Ron never met a stranger. According to Ruth, "He worked at memorizing not only the names of people he met but also the names of their children and things that were important in their lives. Ron was a true Renaissance man. He loved engineering, science, music, dance, visual arts in all form, and the beauty of nature." "Ron and Ruth Wukasch were members of a group of special individuals who established the Friends donor organization to support Purdue Convocations," said Barbara Mayoras, Audience Development Associate of Purdue Convocations. Don Seybold of Convocations adds, "For 22 years we enjoyed Ron's shiny, smiling face, filled with excitement and anticipation before each convocation, and he rarely missed a performance."

■ Professor Ernest, "Chip", Blatchley knew Professor Wukasch when Chip was a student at Purdue. "I had the pleasure of knowing Ron Wukasch as

Many minority students will also cherish their memories of Professor Wukasch. According to Klod Kokini, Assistant Dean of Engineering, "Ron was dedicated to making Purdue and engineering a better place for students of all backgrounds and gender. He was an enthusiastic champion of diversity and one of the founding members of the Diversity Action Committee at Purdue University, and one of its hardest working members. He is dearly missed."



both a teacher and a colleague. As an undergraduate in Civil Engineering at Purdue, one of my favorite classes was the Wastewater Treatment Plant Design class he taught. He set a very high standard for his students to shoot for and was able to explain complex principles so that we had a grasp of the practical implications of the topics being discussed. Like many of my peers in the class, I was able to use these principles immediately upon moving into the working world. When I considered leaving consulting engineering to enter graduate school, the first person I spoke with was Ron Wukasch, because I knew his advice would be objective. When I returned to Purdue to join the faculty several years later, Ron was one of the first people to welcome me back. He made me feel welcome, as he did with everyone who came here as faculty, staff or student. In trying to develop a career in an academic setting, we all try to emulate people who have had an impact on us. Ron was one of those people whose professional career and

personal outlook illustrated the balance in life that we should all strive to achieve. He was able to blend a caring, compassionate style with high academic expectations. Because of these attributes, he was labeled as the "tribal elder" within the Environmental & Hydraulic Engineering area. We all looked to him for leadership and as a source of wisdom."

■ Professor Katherine Banks also remembers Ron as her mentor and the areas' "tribal elder". According to Banks, "He was a visionary who led by example. His commitment to diversity was apparent in his research and teaching programs. Students, staff, and faculty in the area were motivated by Ron's example of excellence."

■ We may not understand why Ron succumbed to leukemia, but we do understand the profound loss to our school. ♦

Those who wish to contribute to Ron Wukasch's memorial fund please contact Suzy Karberg.

Kleasen Pre-Civil Engineering Scholarship



Hubert Kleasen chats with Laura Jacobs

According to Professor John Gaunt of Freshman and Civil Engineering, "Although Freshman Engineering at Purdue has a small number of designated scholarships, Mr. Kleasen's scholarship is the first and the only targeted for students who wish to become civil engineers. This scholarship helps us recruit an outstanding freshman headed for civil engineering. Mr. Kleasen's scholarship definitely played a role in recruiting the past two recipients, Jessica Squires and Laura Jacobs. Both of these recipients are outstanding students. We would like to see other scholarships of this nature."

■ Jessica Phillips, last year's scholarship recipient, knew when she came to Purdue that she wanted to study civil engineering. She states, "This scholarship has been additional encouragement for me, especially after hearing about Mr. Kleasen and his determination to enter the field. I am a student in Civil Engineering's cooperative program. This semester I am working in the Environmental Department at Phillips 66 in Houston, Texas, where I am learning an incredible amount through critical work experience. Mr. Kleasen has not only helped me with the scholarship award, but he has been an example. He personally encouraged and supported my decision to study civil engineering at Purdue."

In 1999, Hubert Kleasen established a freshman engineering scholarship, a pre-civil engineering scholarship, to encourage top-quality high-school seniors interested in civil engineering to attend Purdue. Mr. Kleasen likes having contact with the recipients. "There is much I would like to tell them about the work of civil engineering. I would like to help them make the transition from school to work a success. Civil engineering is a great and important field."

The current recipient of the scholarship, Laura Jacobs, says she fell in love with Purdue during her first visit as junior in high school. She continued, "I not only loved the place but was impressed by the quality of the School of Civil Engineering. Since I am from Michigan, coming to school here would have been expensive. I was honored and thrilled to receive this award. It helped me be able to come here and live the dream that began when I arrived on campus. I am grateful for the opportunity to be at one of the best places."

Spotlight on the alumnus,

**HUBERT KLEASEN, BSCE '53,
MSCE '54**

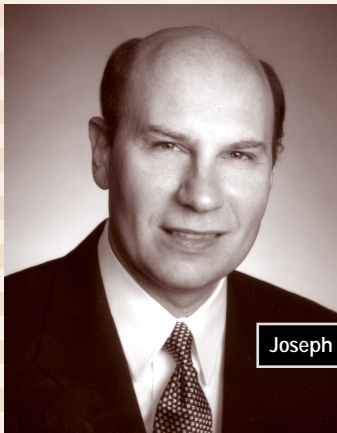
A World War II veteran, Hubert Kleasen was working in his hometown of Buffalo, New York for Westinghouse when he learned he was being laid-off. The year was 1949, and his boss suggested that Hubert take advantage of the G.I. Bill. He had a close friend who was enrolled at Purdue. When he told his friend that he was interested in learning about materials and structures, his friend said, "You want to come to Purdue." When Mr. Kleasen started Purdue in the fall semester of 1949, he remembers being told after his poor performance on entrance exams that he would never make it. However, he was interested in

the subject matter and determined. Although at times he struggled with chemistry and math, he graduated from the School of Civil Engineering in 1953 and immediately enrolled in graduate school at Purdue. In 1954, he received a Masters' of Science in Civil Engineering, specializing in structural engineering.

■ During his career, he held fourteen different jobs, learning something different each time that would help him in his next position. He traveled the world in his last position selling heavy construction equipment. Through the years, he kept up on his alma mater through Purdue's publications. In 1954, he bought a lifetime subscription to the Purdue Alumnus. He has always enjoyed that publication in addition to the other Purdue newsletters he receives such as *Transitions* and *Extrapolations*. He especially enjoys reading about Civil Engineering.

■ Over the years, he developed a habit of giving to the School of Civil Engineering and Purdue. When he first began his career, the amount of his contributions was not much compared to what he is able to contribute today, but the importance, he feels, "lies in the habit of giving." This allows him to be connected to the School of Civil Engineering and he is proud of that bond. He feels strongly that there is a misconception that since Purdue University is a state supported institution, private funds are not necessary. "Private donors are needed. Purdue publications should also be asking the WWII generation to contribute and to also remember Purdue University in their will or estate." ♦

CIVIL ENGINEERING ALUMNI ACHIEVEMENT AWARD RECIPIENTS



Joseph M. Cibor

Joseph M. Cibor

BSCÉ 1976, MSCE 1978
President,
Fugro South, Inc.

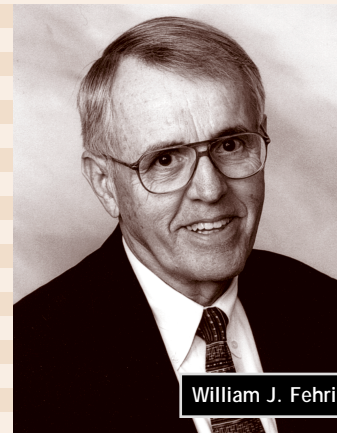
It made sense that Joseph Cibor chose to pursue civil engineering at Purdue with his analytical mind, interest in mathematics and science, and his father's subtle influence as a civil engineer himself. Mr. Cibor's appreciation for the field grew with each year at Purdue, and after his first soil mechanics class, he was determined to work in geotechnical engineering.

■ Upon graduation in 1978 from Purdue University with a Master of Science degree in civil engineering, Joseph Cibor joined McClelland Engineers (acquired by Fugro in 1987) in Houston as staff engineer. Today as President of Fugro South, Inc., Mr. Cibor leads over 425 professional, technical and support staff at one of the largest purely geotechnical consulting practices in the United States.

■ During Mr. Cibor's 24-year career as a geotechnical engineer, he worked on projects in the Middle East, South and Central America and throughout the United States. With expertise in soil-structure interaction, design of foundations in arid environments, and forensics, he is often called upon to provide expert testimony.

■ Since January 1998 when Mr. Cibor was named his company's President, Fugro South has continued to benefit from its focus on geotechnics. The company now operates from a network of eleven offices throughout the Southwest. Services represent a unique combination of classic geotechnical engineering plus centers of excellence in specialty areas including deep foundation testing, 2-D and 3-D geophysical studies, high performance pavements, and ownership of one of the premier, commercial soil testing facilities in the world. The company's stand alone technologies and strong presence in Houston — an energy/petrochemical capital — produce opportunities to work on projects around the globe. In the past year alone, Fugro South worked in nearly 40 states and 15 countries including Australia, India, Venezuela, Russia, Mexico, and Brazil. Clients include ExxonMobil, Phillips Petroleum, Allied Waste, Federal Highway Administration, and CH2M Hill. Mr. Cibor and his wife of 22 years, Niki, reside in Houston, Texas with their 13 year-old daughter, Kristina.

■ In his spare time, Mr. Cibor enjoys serious tennis, model railroading and weekend golf. ♦



William J. Fehribach, P.E.

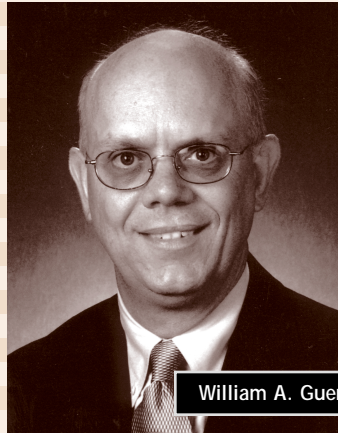
William J. Fehribach, P. E.

BSCÉ 1961
President,
A & F Engineering Company, LLC

When William Fehribach was in high school in Jasper, Indiana, he was influenced by one of his math teachers who was a civil engineering graduate and a professional engineer. That influence sparked an interest in engineering that stayed until he was finally able to accomplish his goal to become a professional engineer.

■ After high school, Mr. Fehribach enlisted in the U.S. Air Force during the Korean War. He was assigned as a radio operator in a B-29 aircraft. Mr. Fehribach enrolled at Purdue University after his tour of duty. In 1961 he graduated with a Bachelor of Science degree in civil engineering and immediately joined the Department of the Bureau of Traffic Engineering for the city of Indianapolis. He worked in the areas of traffic operations, traffic planning, and highway geometric design where he gained experience in traffic engineering.

■ In 1966 Mr. Fehribach formed A&F Engineering Co., LLC, serving as the company's president. With his leadership, the company has grown and has a premier traffic engineering reputation throughout the Midwest. Mr. Fehribach is a registered professional engineer in Indiana, Ohio, Michigan, Kentucky, Illinois, and Iowa.



William A. Guernsey Jr.

■ Bill and Bernice, his wife of 45 years, reside in Indianapolis, Indiana. They have four children. His son, Greg and daughter Therese, a Purdue BSME graduate, are attorneys. His son Steve is a professional engineer with a BSCE from Purdue and Doug is also a graduate of Purdue with a BSCT and is the owner-operator of a traffic sign company in Indianapolis. They have 12 grandchildren. ♦

William A. Guernsey Jr.
BSCE 1974
President,
Acadia Industrial Products

As a cooperative engineering student working for Shell Oil Company, Bill Guernsey discovered early on his interest in pursuing a management career path. Upon receiving his Bachelor of Science degree from Purdue University in civil engineering, 1974, he immediately continued to graduate school and obtained his MBA from the Stanford University Graduate School of Business in 1976.

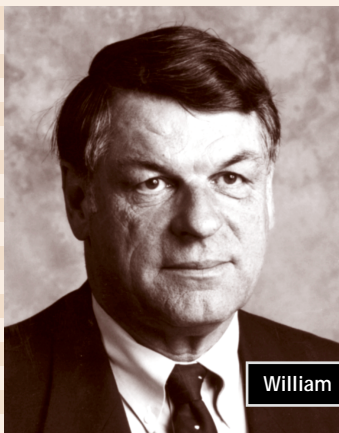
■ After receiving his graduate degree, Mr. Guernsey, an Indianapolis native, returned to Indiana to join Cummins Engine Company in Columbus. He held a variety of management positions during his 13-year tenure at the diesel engine manufacturer. His assignments were varied and he gained experience in finance, strategic planning, logistics, marketing, product management and plant and general management. Two of those years entailed a foreign assignment in Mexico City, Mexico. In his final position, he was General Manager of Consolidated Diesel, the manufacturing joint venture between Cummins and J. I. Case. Mr. Guernsey joined Allis Mineral Systems (formerly Allis Chalmers) in 1989 where he held the position of vice president and general manager for three years. Located in

Appleton, Wisconsin, he was responsible for the U.S. operation of this Swedish-owned company that produced and sold mineral processing equipment to the mining industry.

■ BMC Industries, whose headquarters are in Minneapolis employed Mr. Guernsey from 1992-1999 primarily as President of mask operations.

■ In 1999, Mr. Guernsey moved to Texas to join Acadia Industrial Products as their President. Acadia is a portfolio company of the Jordan Company, a large private equity group with headquarters in New York City. This industrial company was formerly a division of Johns Manville Corporation that was privatized in 1989. Operating with five manufacturing locations in the US and Europe, Acadia Industrial Products manufactures and sells sealing products for numerous industrial applications worldwide.

■ Mr. Guernsey and his wife of 23 years, Georgette, reside in Lufkin, Texas and have two daughters Felicia, who graduated with a BSFS from Purdue, and Adelle, who is presently a junior in education at Purdue. ♦



William M. Lyles

William M. Lyles

BSCÉ 1955

**President & CEO,
Lyles Diversified, Inc.**

Bill Lyles grew up in a construction family, the son of Purdue graduates, and the grandson of a Purdue Mechanical Engineering professor. From 1945 when the family business was started, Bill looked forward to joining his parents at W. M. Lyles Company. He graduated with a Bachelor of Science degree in civil engineering from Purdue in 1955. During his college years he had the distinction of possibly creating for himself an early version of Purdue's present day construction management program. He took all the basic civil engineering courses supplemented by many business type courses. He also took a mechanical engineering course from his grandfather, Prof. H. G. Venemann.

■ After serving two years in the Civil Engineering Corps of the U.S. Navy supervising construction projects at the Naval Powder Factory in Indian Head, MD., Mr. Lyles joined the family business in July 1957, and has been with the business for almost 45 years. When Mr. Lyles' father met an untimely death in 1965, Bill was moved to responsible leadership at a relatively early age. With his management, Lyles Diversified, Inc. developed construction businesses with focus on pipeline and

utility, concrete and mechanical plant, and highway work primarily.

■ Also over the years, the company has diversified into development and ownership of real estate, farming and manufacturing of closed circuit television surveillance equipment.

■ Mr. Lyles is currently a member of the Advisory Council for the School of Civil Engineering, Purdue University. Mr. Lyles and his wife, Ann, reside in Fresno, California.



Mamon M. Powers Jr.

◆ Mamon M. Powers Jr.

BSCÉ 1970

**President,
Powers & Sons Construction Company,
Inc.**

As a sophomore in high school, Mamon Powers Jr. was challenged to major in engineering by one of his instructors. He was further advised that to be the best in that field, he should seek to become a registered professional engineer. Recognizing that no challenge is too great for him to meet, Mamon Powers, Jr. accepted that challenge. Knowing that in order to be the best in engineering, he needed to attend a well recognized, highly rated school. Mamon Powers Jr. selected Purdue University.

■ Mamon Powers Jr. received a Bachelor of Science Degree in civil engineering from Purdue University in 1970 and joined the American Oil Company as a civil engineer in the Department of Planning and Engineering. His father, Mamon Powers Sr. was the first black carpenter apprentice in Northwest Indiana and founded Powers and Sons Construction Company in 1967. Following the family tradition, Mr. Powers Jr. joined the family business as secretary/treasurer in 1971. In 1975, Mr. Powers Jr. became a registered Professional Engineer, and president of Powers and Sons Construction Company in 1987.

With his leadership, Powers & Sons pivoted the direction of the company from a residential home builder to becoming general contractors and construction managers.

■ Powers and Sons Construction Company is a full-service commercial, industrial, and institutional general contractor and construction manager that has become the leader in delivering fast-track projects on schedule and under budget. Black Enterprise Magazine has listed the Indiana-based company as one of the 100 largest African-American businesses in the country. Some of their most notable construction projects include serving as general contractor on the Public Safety Building for the City of East Chicago, Indiana; serving as co-construction manager for the Indianapolis Convention Center; Market Square

Arena; and City of Gary's Baseball Park.

■ Even further, Mr. Powers Jr. has developed within his company a very structured, youth development program that provides internships and scholarships for junior high, high school, and college students interested in pursuing careers in construction and engineering. As a result, students are provided opportunities to transfer the theoretical knowledge gained in the classroom and realize it in a more practical setting as displayed on construction sites. Mr. Powers Jr. currently resides in Valparaiso, Indiana with his wife of 29 years, Cynthia. They have two children — Kelly Powers, BSCE '98, and Mamon Powers III, who is currently pursuing a degree in construction management at Tri-State University. ♦

Civil Engineering Alumni Achievement Award Recipient for 2000

Due to editing an error in Fall 2001 Transitions Harold Force was not introduced as one of our Civil Engineering Alumni Achievement Award Recipients.

Harold F. Force

BSCE 1973, MSCE 1974

President,
Force Construction Company, Inc.

Born and raised in a construction family, Harold Force always knew he would pursue a civil engineering degree and work in engineering and construction. He was introduced to Purdue Civil Engineering by family friend Professor Harold Michael.

■ Degrees in hand, Mr. Force returned to Columbus, Indiana, and Force Construction Co. in May, 1974. In 1977, he became a registered professional engineer in Indiana and formed Force Design, Inc., a design services company providing engineering support to the company's design-build projects.

■ Widely recognized as a hands-on, self-performing design and construction

organization, the Force companies specialize in highly engineered industrial, commercial and site/civil projects. Recognizing the increased internationalization of the Midwest industry, the firm's business development efforts have resulted in the construction of more than 200 Midwestern projects for foreign-based companies.

■ The Force organization operates an in-house concrete materials laboratory, maintains quality assurance files on all aspects of its projects, and has an aggressive safety and quality program. About 70 percent of its construction volume comes from building projects; the remaining 30 percent from bridges



Harold F. Force

and other transportation-related facilities.

■ Mr. Force and his wife Debbie (BS1973, HSSE) reside in Columbus, Indiana, and have three children: Catherine Force Koczaja; Karen Force; and Clayton Force, a Purdue Civil Engineering student. ♦

FACULTY AND STAFF NEWS



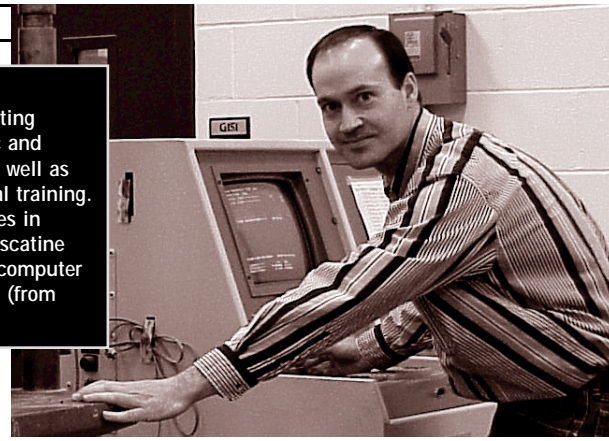
Makarand Hastak

A Purdue Construction Engineering Ph.D. graduate (1994), Makarand Hastak returned to his alma mater this past fall as assistant professor.

Makarand Hastak grew up in New Delhi, India, where he earned a Bachelor of Science degree in civil engineering and worked for a number of years as assistant design engineer for STUP Consultants Ltd, an engineering firm with offices around the world. In 1989 he came to the United States to pursue a Master of Science degree at the University of Cincinnati, followed by a Ph.D. from CE/Purdue. After appointments at Georgia Institute of Technology in Atlanta and Polytechnic University in Brooklyn, and serving on the faculty at the University of Cincinnati, he brings a wealth of experience to Purdue's CEM program. ■ Dr. Hastak returned to Purdue last fall because, as he says, "In CEM, Purdue has no equal. It is the single most successful program of its kind in the US today, and I feel privileged to have this opportunity to fully realize my vision in such an environment." ♦

See "News from the centers" for additional new staff.

Mark has several years of experience in troubleshooting and repairing of hydraulic and pneumatic equipment, as well as a machining and electrical training. He holds Associate degrees in applied science (from Muscatine Community College) and computer aided drafting and design (from Ivy Tech State College)



On March 12, 2002, Mr. Mark S. Baker was hired as a Laboratory Manager for the materials area.

As lab manager, Mark Baker will be overseeing both concrete and bituminous materials research laboratories and will be assisting with undergraduate and graduate instruction for materials courses. Before joining the staff of the School of Civil Engineering, Mr. Baker was employed as a farm technician at the Purdue Agronomy Research Center. ♦



Tehri Pellinen

Civil Engineering's Materials Area welcomes assistant professor Tehri Pellinen.

Dr. Pellinen brings with her a Ph.D. in civil engineering from Arizona State University (2001) and a Master of Science in civil engineering from the University of Oulu, Finland (1985). She also has twenty years of experience in the field of pavements/materials. Before starting her graduate studies, she worked as a loaned staff researcher representing Nordic countries in the Strategic Highway Research Program (SHRP) in Washington DC and served as a research engineer for Advanced Asphalt Technologies (AAT) in Virginia. Recent research projects that Dr. Pellinen has worked on include NCHRP 9-19, involving the development of a simple performance test for inclusion in the Superpave Mix Design System and compilation of the new AASHTO 2002 Design Guide for Flexible Pavements under NCHRP 1-37A. ♦



Sue Phebus

New Assistant to Head, Sue Phebus, not new to Purdue

Sue Phebus came to Civil Engineering as the assistant to the head in September, 2001 after spending the previous 13 years as operations assistant in the University Development Office. She began her career at Purdue in June 1983, in the business office of the Animal Sciences Department. ♦

FACULTY AWARDS

Vince Drnevich won the ASTM Award for the Outstanding Article on the Practice of Geotechnical Engineering along with Dr. Shafiq I. Siddiqui and Dr. Rick J. Deschamps. The article titled "Time Domain Reflectometry Development for Use in Geotechnical Engineering" was published in the March 2000 issue of the Geotechnical Testing Journal of ASTM. The award was presented in June at the ASTM Committee meeting in Salt Lake City, Utah. ♦



Vincent Drnevich

Professor Emeritus Jacques Delleur will be presented with the prestigious Van Te Chow Award from ASCE to recognize his lifetime achievements in the field of hydrologic engineering. The award will be held in September 2002 during a conference on Urban Hydraulics. An excerpt from the citation reads:



Professor Jaques Delleur

"For his fundamental contributions and unselfish service in the areas of urban, systems, statistical and subsurface hydrology as evidenced by his books and research papers, for his ambassadorial role in representing U.S. hydrologic practices abroad, and for being an outstanding teacher and mentor, ..." ♦



Kumares C. Sinha

Kumares C. Sinha, Olson Distinguished Professor of Civil Engineering, was honored as the recipient of the Francis C. Turner Lecturer Award at the October 2001 Annual

Meeting of the American Society of Civil Engineers held in Houston, Texas. This lectureship is awarded periodically to an individual for contributions to the advancement of the knowledge and practice of transportation engineering. Dr. Sinha also has been selected as the 2002 recipient of the Wilber S. Smith Distinguished Transportation Educator Award from the Institute of Transportation Engineers. ♦

The National Science Foundation has awarded the Faculty Early Career Development (CAREER) Award to Assistant Professor of Civil Engineering, **Jason Weiss**, at Purdue University. The CAREER program is a foundation-wide activity that offers the National Science Foundation's most prestigious award for new faculty members. The CAREER program recognizes and supports the early career-development activities of those teacher-scholars who are most likely to become the academic leaders of the 21st century." ♦



Jason Weiss

Suresh Rao has been appointed as the Associate Dean of Engineering Graduate Education and Inter-Disciplinary Programs. This



Suresh Rao

is a new position and reflects the Deans' commitment to enhancing engineering graduate programs and her recognition that inter-disciplinary research involving graduate students is one major growth area. Suresh will continue to maintain his assignment in Civil Engineering as the Rieth Distinguished Professor.

CE is proud to announce, Professor Suresh Rao recently has been recognized by the Institute for Scientific Information as being among the most cited researchers in the world. ♦

Mete Sozen and Paul Mlaker, Purdue Alum, were chosen by ASCE to be among four experts on a special team to study the Pentagon Disaster of September 11. ♦

Zakia Parrish Awarded 2001 Martha Dicks Stevens Fellowship

Zakia Parrish's research focuses on the use of plants to remediate soil contaminated with polycyclic aromatic hydrocarbons (PAHs). This technology, called phytoremediation, enhances the activity of the microbial populations in soil responsible for PAH degradation. She is working with contaminated soil from a former manufactured gas plant site (MGP) in Bedford, Indiana. The soil has been pretreated using land treatment and composting techniques, however,



the higher molecular weight PAHs remain at concentrations above the site cleanup goals. Her research objective is to evaluate the use of plant-enhanced bioremediation as a tertiary treatment method. Plant roots accumulate large amount of phenolic compounds that are excreted upon cell death, during root turnover and decay. These root exudates stimulate microbial activity in the soil and, in turn, increase the rates of contaminant decomposition. Through multiple greenhouse projects, Ms. Parrish is investigating the different rates of degradation and rhizosphere microbial population changes as a result of root turnover at different stages in the plant life cycle. The results of her research will assist with the optimization of phytoremediation projects by contributing to our understanding of the limiting mechanisms of contaminant dissipation in plant-assisted bioremediation. Ms. Parrish has completed all of her coursework and preliminary exam requirements and is currently teaching an undergraduate class, "Introduction to Environmental Engineering." She is very focused on

her research projects. The Martha Dicks Stevens fellowship provided her with the funding necessary to join several engineering professional and honor societies and to attend a national bioremediation conference, where she presented a poster of her research. ♦

Concrete Canoe The New Dimension

Written by Lister Carbon, CE student member Concrete Canoe

Committee Concrete Canoe has had its ups and downs here at Purdue University. Participation in Concrete Canoe, a sub-committee of the American Society of Civil Engineers (ASCE), has been sparse in previous years.

■ However, this year (2001-2002), the faculty decided to offer Concrete Canoe as a new course called High Performance Cement Composite (CE497). Due to this innovative idea of the faculty, there has been heightened interest in the project. ■ In the spring semester of 2002, approximately thirteen students registered for the course and along with a few volunteers worked tirelessly to bring the project to a reality. We started by dividing into two groups, a mix design team and a haul design team. The mix design team formulated a unique mix design utilizing glass bubbles and micro-silica spheres.

■ This proved to be challenging as many of the students had only knowledge from the two civil engineering core materials classes taught here at Purdue.

■ The hull design team started slowly as none of the members had any experience in designing a canoe and knew very little of the important parameters. To solve this problem, the team made use of haul design software in designing the canoe. This was a very lucrative purchase as within one week of purchase, the canoe was designed.

■ The next challenge was the actual construction of the canoe. We had to decide how we were going to build the haul and how we were to apply the concrete mix to this form. We eventually used a wire mesh covered with visquine plastic over the full sections of the canoe.

■ The competition weekend was held at Marquette University in Milwaukee, Wisconsin from April 25th to April

28th. We certainly did not reach this point by ourselves.

■ We would like to thank everyone who helped us to see this project through. Special mention should be made of



Professor Menashi Cohen, the student advisor of the Concrete Canoe Committee. He ensured that we delivered our product on time and kept us to strict deadlines. We would also like to thank the alumni and businesses that contributed to the project: 3M, Steve Bechtel of National Starch, Bob Rohrman, Dave Marty of D.K.A. Plastering, and a special thanks to Harold Force. ♦

Chi Epsilon Officers Attend National Meeting

By Janel Crosier, Student President, Chi Epsilon

Six Chi Epsilon officers accompanied by chapter advisor, Dr. A.R. Rao, attended the Chi Epsilon National Conclave at the University of Maryland March 7-9, 2002. The students attended professional development seminars and took part in committee meetings to improve the national organization of Chi Epsilon. Representatives from 106 universities from across the United States were in attendance. The next Chi Epsilon National Conclave will be hosted by Purdue March 4-6, 2004. Alumni participation and support will be necessary in order to make the conclave a success. Please contact xe@ecn.purdue.edu for more information. The Chi Epsilon officers that attended were John Schlitter, Steve Cline, Laura Jones, Dan Falda, Janel Crosier, and Nicholas Tymvios. ♦



CE Breakfast

Saturday morning, October 27th, the Civil Engineering Homecoming Breakfast was held in the CE building with another big crowd! All Civil Engineering alumni and friends enjoyed the wonderful custom-made omelets made by our faculty chefs. ♦



Civil Engineering Alumni in Indianapolis

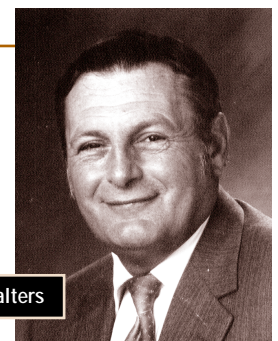
Civil Engineering alumni, friends, faculty and students enjoyed the spirit of Purdue in Indianapolis. With great food, student organization displays, Purdue Pete, Bob Turner, Committee Chairman for the Indianapolis Reception, and special speakers: Sally Frost Mason, Purdue University Provost; and Murray Blackwelder, Purdue University Senior Vice President for Advancement, it was a great success. ♦



Joe Walters Retires



In January 2002, Mr. Joe Walters retired from his position as a laboratory manager of the materials area in the School of Civil Engineering. Joe worked in this position for many years and has been closely involved with various elements of undergraduate and graduate instruction, training and research activities in the concrete laboratory of the school. During his tenure as laboratory manager, he helped to move the laboratory from Grissom Hall to its current location in the Civil Engineering building and actively participated in the process of development of many laboratory setups used in the teaching of such courses as CE 231, CE 331, CE 333 and CE 530. He also assisted numerous graduate students and the



Joe Walters

faculty in their research activities by helping with such tasks as material acquisition, demonstration of test procedures, and equipment repairs. Joe maintained the laboratories in an excellent condition and his friendly, relaxed manner created a comfortable, welcoming atmosphere. ♦

Bob Tener moves on to California

Eight years ago when the School of Civil Engineering was looking for someone with both faculty and industrial experience, to teach undergraduate students and also to run the unique CEM construction internship program, Bob Tener, coincidentally, was planning to return to Indiana from Dallas, Texas, and it seemed a good fit for all concerned.

■ Bob Tener revamped and taught two undergraduate courses, including the capstone, senior design course for the BSCEM majors. His work as Director of the CEM Internship Program, Bob recalls, “has been a great satisfaction, because of the close-up involvement in the development and growth of every CEM student. It’s very clear that this program has over its 23-year lifetime become



Bob Tener will miss Purdue University

nationally eminent. During our survey of employers of CEM graduates last year, almost half of them rated Purdue BSCEM graduates as the best prepared for construction engineering careers of any university in the U.S. and another 40% ranked us in the top one-third. Purdue University can rightfully claim preeminent, national stature with this program today.” Bob has accepted a position as Director of Education and Training for Hathaway Dinwiddie Construction Company, a major California building corporation. Bob says, “This is one more exciting career calling for me, and perhaps it means I may never retire! I will certainly miss the personal and professional satisfactions and the great camaraderie we have enjoyed so much in Civil Engineering at Purdue.” ♦

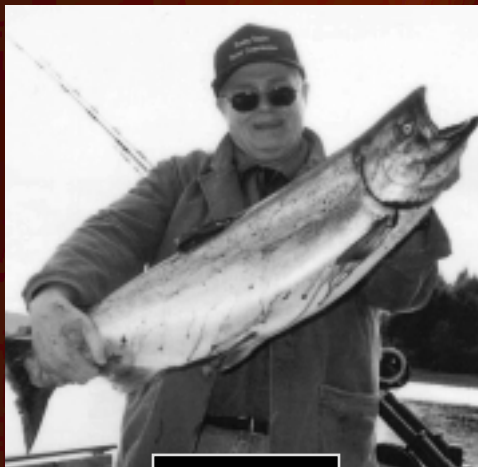
Bob Tener and Bob Whitford both look forward to exciting challenges ahead.

Bob Whitford retires (kind of)

Written by Dr. Jon Fricker

When Bob Whitford retired from the Purdue Civil Engineering faculty a few weeks ago, he ended a career of more than 23 years at Purdue. Fortunately, his service to the transportation profession will continue. Here are some facts about Robert K. Whitford that you might not know:

- >> He earned a BS degree from Purdue in electrical engineering.
- >> From 1955 to 1972, he worked for TRW in various management positions of increasing responsibility and influence.
- >> In 1972, he was honored as a Distinguished Engineering Alumnus, having been nominated by the EE faculty.
- >> In 1972, Bob moved to the Transportation Systems Center (now called the Volpe Center), a research center for the U.S. Department of Transportation that is located in Cambridge, MA. In 1975-76, he served as the Acting Director of the TSC.
- >> In the fall 1978, he came to Purdue as part of a university-government exchange program, and he never left.
- >> He is very active in church activities and in such programs as Habitat for Humanity.



Bob Whitford will enjoy more fishing in Alaska

■ During his career at Purdue, Bob contributed his talents to the Institute for Interdisciplinary Engineering, the Center for Public Policy and Public Administration, and (since 1982) the School of Civil Engineering. Whenever he saw an academic need that he thought he could fill, he took the necessary steps. A good example is the emergence of air transportation. Bob made the effort required to become an expert in airport planning, design, and operations. The courses he developed on these topics were well received by students and made our transportation program much stronger. He was passionate about teaching. He worked hard on course content, meaningful assignments, and was willing to administer “second chance” tests if learning objectives had not been met.

■ During his partial retirement from Purdue in recent years, he has been spending much of his time in Alaska, working for the State DOT and enjoying the outdoor life there. His colleagues in the Transportation Area of CE have always valued his abilities. That is even more obvious, as we conduct a search for a new faculty member to fill some of the gaps in our program caused by Bob’s departure. The Alaska DOT also values Bob’s capabilities. He will continue to provide services to that agency when he is not looking for salmon.

Indiana Clean Manufacturing Technology and Safe Materials Institute

CMTI received a \$475,632.00 agreement from the Indiana Department of Environmental Management in October 2001 to provide in-plant, clean manufacturing and air permitting technical assistance to Indiana small businesses (100 employees or less) in selected manufacturing sectors, including foundries and those that apply coatings to metal and plastic fabricated products.

■ CMTI continues its research at Purdue's Coating Applications Research Laboratory (CARL) to investigate low-to-no volatile organic compound (VOC) substitutes for solvents in coatings and styrene in gelcoats used to produce fiber reinforced plastic products. Most of the new gelcoat formulations and application technologies introduced to this sector in the past two years have been, first, tested at CARL. ♦

The Indiana Clean Manufacturing Technology and Safe Materials Institute, has four new staff

■ **Rick Bauer** is a process engineer who will be responsible for assisting Indiana manufacturers in reducing air emissions and solid waste generation through clean manufacturing strategies. Mr. Bauer is part of the Institute's Small Business Assistance Program, and currently is operating out of CMTI's southern office in Seymour, Indiana. Prior to joining the CMTI team, he served as program manager of the SprayTechnique Analysis and Research (STAR) program at the Iowa Waste Reduction Center at the University of Northern Iowa. Mr. Bauer earned a Bachelor of Technology degree in industrial technology and a Master of Science degree in environmental science from the University of Northern Iowa.

■ **Tim Bock**, also a process engineer, has served CMTI since March 2001. Prior to that, Mr. Bock was employed in various engineering roles at Crown International for 22 years, serving as environmental, health and safety manager for the last decade. He led Crown's effort to achieve the 1996 Governor's Award for Excellence in Pollution Prevention and the Indiana Water Pollution Control Association's Industrial Waste Award for eliminating hazardous materials in production. Mr. Bock's Bachelor of Arts degree is from Indiana University in South Bend.

■ The new Outreach Coordinator for CMTI is **Ann Piechota**. With a Master of Science degree in natural resources and environmental policy and over 12 years experience in the



Rick Bauer

Ann Piechota



Tim Bock

Terry Gray

environmental field, she works to ensure that Indiana manufacturers are provided with the educational opportunities and technical assistance needed to effectively implement pollution prevention practices.

■ Process Engineer, **Terry Gray**, is part of CMTI's Small Business Assistance Program and currently is operating out of CMTI's Central District Office in Indianapolis, Indiana. Mr. Gray is responsible for assisting small Indiana manufacturers in reducing waste and air emissions through clean manufacturing technologies. Prior to joining CMTI in December, 2001, Mr. Gray worked for manufacturers and consultants in all areas of environmental health and safety. Mr. Gray earned a Bachelor of Science degree in biology education and natural resources from Ball State University and a Master of Science degree in environmental health from Purdue University. ♦

Civil Engineering is proud to introduce two new exciting research centers

The objectives of the Midwest Hazardous Substance Research Center (HSRC) are to:

- >> *Develop low cost, non-invasive technologies that remove contaminants from the environment;*
 - >> *Promote the use of new technologies through demonstration projects, workshops, and information exchanges with industry and regulatory communities;*
 - >> *Provide assistance to communities affected by hazardous substances through the Technical Outreach for Communities (TOSC), Technical Outreach for Native American Communities (TOSNAC), and Technical Assistance to Brownfield Communities (TAB) programs.*
- Learn about the staff on page 18.*

■ The Midwest Hazardous Substance Research Center is based in the Civil Engineering Building at Purdue. The center is the lead institution in a nine-university research and outreach consortium. The center receives its base support from an Environmental Protection Agency grant.

■ The National Aeronautics and Space Administration (NASA) announced in March, 2002, that Purdue University will head a center to develop "advanced life support" technologies for sustaining human colonies on Mars and elsewhere in space. Purdue received a \$10 million, five-year grant to lead the NASA Specialized Center of Research and Training for Advanced Life Support. The center will include 24 researchers from Purdue and two historically black universities, Alabama A&M in Normal, Ala., and Howard in Washington, D.C.

■ The center's director, Cary Mitchell, said Purdue will help design a self-sustaining environment for future space colonies. Residents will grow their own crops and live inside fully enclosed habitats in which all wastes are constantly being recycled and purified. Plants will provide foods and oxygen for humans, microbes will be used to break down wastes, and other technolo-

gies will be needed to remove impurities from the air and water. "There will be a closed-loop synergy, meaning the wastes of one system are taken in, used and processed by another system," said Mitchell, a professor of horticulture at Purdue. The habitats will be largely "bioregenerative," meaning biological organisms will help to sustain a life-supporting environment. But engineered systems also will be critical in maintaining that environment. Various devices will be needed to recycle air and human wastes and to purify dirty water from bathing, dish washing and other sources. "It's exactly duplicating what happens on earth," Mitchell said. "But to make sure that things cycle fast enough, you need some physical and chemical processes to help along the biological systems." Perhaps people will be living in such "biospheres" on Mars or the moon within only a few decades, Mitchell added.

■ "Because Purdue is so strong in engineering and agricultural research, it is the ideal institution to lead this kind of center," said Purdue President Martin C. Jischke. "Besides the exciting goals associated with human space exploration, this effort also is very valuable for its potential social impacts gained through educational outreach and developing partnerships with minority universities." U.S. Sen. Richard Lugar, R-Ind., said this research is important for the nation's space program. "This federal research grant for Purdue demonstrates the university's valuable role in ensuring that the United States continues to lead the world in space-related research," Lugar said. "I commend Purdue officials for their hard work to secure funds for this worthwhile initiative and wish them success in this endeavor." The NASA advanced life support center is the only one of its kind in the nation.

■ Half of the center's funding and efforts will be directed toward research in waste management in space. Twenty

percent will go toward systems. The center's associate directors, Purdue civil engineering professors James Alleman and Kathy Banks, will oversee the solid waste management and outreach projects, respectively. Banks also will lead research to develop an air-and-water treatment system. ♦

Kathy Banks, professor of civil engineering, views a "bio-trickle system" that is part of her work with NASA to develop advanced life support technologies for self-sustaining space colonies. Banks is designing a single system to treat both air and water, which has never been done before. Her system is called BREATHe, for bio-regenerative exhaust air treatment for health. The system will purify both water and air by using microbes.



Construction Engineering



The new Construction Safety Alliance (CSA) has vision, voice and verve

by Dr. Dulcy Abraham

The construction industry is changing as construction projects become more global, with designs and engineering developed in places like New Delhi and Bombay being built in New York and Boston. In addition, the workforce is changing. More women, minorities, and younger workers are entering the construction industry. Because of these changes, training mechanisms must evolve to address these newer populations. Traditionally, there has been little sharing of information due to competition, shortage of resources, poor communication, lack of expertise in different areas, and a focus on short-term results instead of long-term planning. Therefore, there is an overwhelming need for infusion of government funding to catalyze permanent changes in this industry.

■ The Construction Safety Alliance (CSA) was funded by a grant from the National Institutes of Occupational Safety and Health (NIOSH) in September 2001. The mission of

the Construction Safety Alliance (CSA) is to develop, implement and evaluate a National Research Program in construction safety and health. The main focus is to embed safety measures as critical components in construction. In doing so, it will link safety with quality and productivity which typically mark the success of construction projects.

■ Dr. Daniel Halpin and Dr. Dulcy Abraham from the School of Civil Engineering and Dr. James McGlothlin from the School of Health Sciences at Purdue University are the lead investigators in this alliance. The partnering universities are University of Texas, Austin, the University of Florida, Gainesville, and the University of Cincinnati, Ohio. The alliance also include industry partners from some of the most progressive and innovative construction and engineering companies in the United States, including collaborations with women owned businesses and minority engineering groups.

■ The **vision** of this new, unique

Construction Alliance brings the best elements in the construction industry together with infrastructures of established research and education programs in engineering, public health, and construction management. The Alliance provides a **voice** in answering questions of construction safety, through the vehicles of education, training, research, product development, and process innovation. The leaders from academics, contracting/industry, engineering, management and labor who form this alliance have responded with **verve**. Their motivations are to have a significant impact not only on the safety and the health of the construction industry, but also to influence the culture and content of this industry.

■ Primary projects in Civil Engineering during the current year include:
» *Development of safer trenching operations (Dr. Dulcy Abraham)*
» *Development of web-based dissemination tools for safety practices in construction (Dr. Daniel Halpin)* ♦

The Midwest Hazardous Substance Research Center, also has four new staff.

■ Jordan Radin is the program manager. He is an environmental engineer with eight years of experience working for consulting and industrial companies. Jordan received his Bachelor of Science degree in civil engineering from Florida State University, a Master of Science degree in environmental engineering from Colorado State University, and is a registered professional engineer in Colorado.

As the Program Manager for the Midwest HSRC, Jordan is responsible for day-to-day management of the center, including budgeting, grant writing, representing the center at conferences and seminars, working with communities affected by hazardous substances through the Technical Outreach Services for Communities (TOSC) program and identifying/pursuing new funding sources.

■ Suzie Flavin joined the School of Civil Engineering, serving as a secretary in the Midwest Hazardous Substance Research Center on November 12, 2001. She came from the School of Chemical Engineering, and has worked in other departments throughout her 25 years of service to the university.

■ Jill Shalabi has joined the Center's staff to serve as research manager. Ms. Shalabi received a Bachelor of Science degree from the University of Massachusetts and a Master of Science degree from Purdue



Jordan Radin

Jill Shalabi



Suzie Flavin

Carol Brown

University from the School of Civil Engineering environmental area. She recently worked for the Indiana Department of Environmental Management as an environmental engineer in the Drinking Water Branch and as a project manager in the Remediation Services Branch.

■ Carol Lynn Brown is the new MHSRC Technical Assistance to Brownfield Communities (TAB) coordinator for USEPA Region 5 at Purdue University. Ms. Brown holds a Bachelor of Science in biological sciences from Tennessee State University in Nashville, Tennessee, a Graduate Certificate in hazardous waste control from Wayne State University in Detroit, Michigan and is currently pursuing a Master of Science degree from Purdue University. Prior to being employed by Purdue University, Ms. Brown was in Project Sciences at Quality Environmental Professionals, Inc. in Indianapolis, Indiana. ♦

Also retiring in January of 2002, was Professor Charles Scholer. The following is a quote from J. Bryan Nicol, Commissioner of the Indiana Department of Transportation as he presented Professor Scholer with a "Sagamore of the Wabash," from the Governor of Indiana. The ceremony took place during the 2002 Roads School held at Purdue.

■ "Over the years, Professor Scholer has clearly demonstrated a heart for local communities. The conferences and workshops he has organized and taught have been strongly geared toward assisting local communities with their public works needs. In 1982, Professor Scholer was appointed Director of the Local Technical Assistance Program or LTAP (at that time it was known as the Highway Extension Research Project for Indiana Counties and Cities). LTAP is an extension service of the Purdue University Civil Engineering Department whose main mission is to supply technology transfer to local transportation officials. Part of his duties as Director was to serve as Co-Chairman of this Purdue Road School. He worked to strengthen the partnership between the State and the locals and ensured that local issues were included on the agenda of Road School. He faithfully served in this capacity for 17 years. During this time, Road School doubled in size and attendance.

■ When the Federal Highway Administration looked to expand the LTAP system throughout the country, they used the program here at Purdue University and the work of Professor Scholer as a benchmark to model other Centers.

■ Professor Scholer earned the title of professor by demonstrating excellence in the areas of teaching research and service.

■ Our School of Civil Engineering would like to join the governor in thanking Professor Scholer for his many years of energy and commitment to making the transportation network in the State of Indiana better for all of us. We also applaud him for demonstrating how one person can make an effective difference.

For more information on the Midwest HSRC visit the website at:
<http://bridge.ecn.purdue.edu/~mhsrc>

As Chuck Scholer retires, he is thanked for service by Indiana's Governor



OFFICE OF THE GOVERNOR
INDIANAPOLIS, INDIANA 46204-2797

FRANK O'BANNON
GOVERNOR

March 22, 2002

Dear Mr. Scholer:

As Governor of Indiana, I am honored to appoint you a Sagamore of the Wabash and to express the appreciation of all Hoosiers for your commitment to making Indiana a better place to live and raise a family.

As proof of this distinction, please accept this document that proclaims you a "Sagamore of the Wabash." Also enclosed is a special lapel pin, which I hope you will wear so that all may know that the great state of Indiana holds you in the highest esteem.

The term "Sagamore of the Wabash" was used by northeastern United States Native Americans to describe a lesser chief or other great person among the tribe to whom the chief would look for wisdom and advice. You, Charles, certainly fit that description. You have distinguished yourself by your humanity in living, your loyalty in friendship, your wisdom in council and your aspiration in leadership.

Thank you again, Charles, for the contributions you have made to your state. Indiana is better off today because of your dedication to it and your fellow Hoosiers.

Sincerely,

Frank O'Bannon

Frank O'Bannon

ALUMNI UPDATES

>> 1929

George Morris Willard, (BSCE 1929) Sun City, AZ—George retired from the American Telephone and Telegraph in St. Louis, MO, almost 65 years ago. He turned 93 this year and spends much time with his three daughters and his grandchildren. George and his wife, Lisbeth reside in Sun City, Arizona.

>> 1933

Robert L. Klausmeier, (BSCE 1933) Springfield, Ohio—Reverend Klausmeier received his bachelors degree from Purdue in 1933. Received his BD degree from Garrett Theology Institute in Evanston, Illinois. Masters Degree from Northwestern University in Evanston. He received his guidance counselor certificate from State of Ohio. Appointed Education Honorary from Phi Delta Kappa. Pastoral Ministry 1941-1947, 1953-1970. Professor of Religion at Dakota Wesleyan University in Mitchell, South Dakota, 1952.

Moved to Springfield, Ohio, Methodist District, as Visual Education Director then was District Director, Youth Fellowship Group leader. The National Youth Fellowship Conference was held at Purdue, 1970. Currently he is retired and is a member of the Administration Board High Street Methodist Church.

John D. Martin, (BSCE 1933) Austin, TX—John is retired from Owen-Illinois Research Center located in Toledo, Ohio and is now living in Austin, Texas.

>> 1954

John E. Wright, (BSCE 1954) North Chittenden, VT—John is the owner and president of the Wright Engineering, Ltd. The civil engineering consulting firm has been in practice for 30 years. He has two sons, Frank Wright, Jr. at Rutland High School and Mathew Wright who will be a freshman in high school.

>> 1957

James L. Lammie, (MSCE 1957, HDR 1997) Princeton Junction, NJ—Jim was honored with the Outstanding Projects and Leaders Award (OPAL Awards) for his achievements in management at the American Society of Civil Engineers din-

ner on April 27, 2001 in Washington, DC. This award recognizes outstanding achievements, leadership and accomplishments in civil engineering. The award also recognizes civil engineers who have made significant differences in one of the five categories: design, construction, public works, education and management. Jim is a director emeritus of Parsons Brinckerhoff, Inc. and has been with the company for 27 years.

>> 1958

William E. Gervasio, (BS 1958) Greenwood, IN—Bill is president of Gervasio & Associates. He is active as secretary for the Johnson County Plan Commission; as Chairman for Johnson County Board of Zoning Appeals; as Chairman of Johnson County Drainage Board; and Member of Johnson County Technical Review Committee.

>> 1959 and 1976

James A. Wurster, (BSCE 1959) Indianapolis, IN and **W. Rick Conner**, (BSCE 1976) Noblesville, IN—Both CE grads are with American Consulting, Inc. in Indianapolis, Indiana. Jim Wurster, CEO, and Rick Conner, President, are proud to be part of this engineering firm now ranked 472 in Engineering News Record's Top 500 Engineering Design Firms.

>> 1965

Harvey L. Berliner, (BSCE 1965) Princetons Jct., NJ—Harvey completed 25 years working for Parsons Brinckerhoff (PB) with his latest position as Assistant Vice President/Project Manager. He is currently the project manager for two light rail projects for PB in New Jersey, the Hudson Bergen Light Rail System and the Newark-Elizabeth Rail Link.

>> 1966

James A. Noyes, (BSCE 1966) Arcadia, CA—Jim started a new position with Los Angeles County in California as Director of Public Works.

>> 1967

James A. Barker, (BSCE 1967) Bloomington, IN—Jim has been asked by the National Park Service to help develop and direct a national research project documenting outstanding American covered bridges. An exhibit will also be prepared to tour the country. Jim was asked to serve due to his experience restoring covered bridges in Indiana. Twelve specialists from across the county will comprise the advisory board. Jim is currently President of J.A. Barker Engineering, Inc. located in Bloomington, Indiana.

>> 1971

Stephen F. Weintraut, (BSCE 1971) Lafayette, IN—Steve was a project engineer for a bridge that won a 2001 National Design Award from the Precast/Prestressed Concrete Institute. He is executive vice president with Butler, Fairman & Seufert. His design solved a difficult clearance problem that saved Porter County in Indiana more than \$1 million on the bridge project.

>> 1974

Theresa L. Adams, (BSCE 1974) Hamilton, OH—Terry is a Global Cost Engineering Process Owner with Procter & Gamble. She recently received the Global Capital Management Leadership and Mastery Award.

Roger C. Bales, (BSCE 1974) Tucson, AZ—On January 14-18, 2002 in Orlando, Florida, the American Meteorological Society (AMS) honored Roger Bales as Fellow, a designation that is conferred upon not more than 0.1% of all AMS members in any given year. Earlier, in December 2001, the American Geophysical Union (AGU) honored him as Fellow, and in January 2001 he was made a Fellow of the American Association for the Advancement of Science (AAAS). Roger Bales is currently Professor of Hydrology and Water Resources at the University of Arizona.

>> 1975

Paul F. Mlakar, (MSCE 1968, PhD 1975) Vicksburg, MS—Paul is currently with JAYCOR Corporation as chief engineer. Dr. Mlakar and Professor Mete Sozen (Kettelhut Distinguished Professor at Purdue University in School of Civil Engineering) were chosen by ASCE for a special team of four experts to study the Pentagon Disaster of September 11th. A separate team of another four experts will be studying the World Trade Center disaster. Story available at:

http://www.asce.org/emerg_document_pr of.cfm#memorium

Michel B. Denechere, (BSCE 1975) St Cyr Sur Loire, FRANCE—Following the U.S. Corps of Engineers patented invention of the CORE LOC unit for breakwater armouring, Sogreah (a French engineering firm) and Baird & Associates (a Canadian engineering firm) just created a joint private company called CORE LOC International (C.L.I). CLI is in charge of marketing the CORE LOC technique worldwide. Michel Denechere has just been nominated Managing Director of CLI. This new company operates from TOURS, France.

>> 1978

Kenneth B. Campbell, (BSCE 1978) Charleston, WV—Kenneth has taken a new position as Civil/Structural Department Manager at Kvaerner in West Virginia.

>> 1979

Steve G. Kopach, (MS 1979) New Baltimore, VA—Steve is the new Chief Land Surveyor for the U.S. Fish and Wildlife Service in the Division of Realty located in the headquarters office in Arlington, Virginia. Steve comes to the Service after spending 25 years with the Bureau of Land Management, most recently serving as the Deputy State Director for Cadastral Survey and General Land Office Records in their Eastern States Office in Springfield, Virginia. Steve's responsibilities include the coordination of all land surveying associated with the Division of Realty's land acquisition programs, Refuge

boundary location and riparian boundary activities relevant to Service Lands.

In May 2000, Steve was awarded the Department of the Interiors Meritorious Service Award for outstanding contributions in the filed of cadastral surveying, land records preservation, Indiana Trust Responsibilities and interagency partnerships. Also in May 2000, Steve received a Certificate of Commendation from the U.S. Department of Justice for outstanding performance and incalculable assistance in support of the activities of the Environment and Natural Resources Division.

>> 1983

Zouheir I. Farah, (BSCE 1983) Tampa, FL—Zouheir is currently with Parsons Brinckerhoff as technical transportation director/project manager. He designs various segments of Interstate I4 in the Hillsborough and Pasco Counties. Parsons Brinckerhoff is a major designer of interstate and county projects in the Tampa Bay area. Zouheir has a daughter, Paola, who is four years old.

>> 1984

Robert C. Kurtz, (BSCE 1984) Roswell, NM—Robert currently works at New Mexico Highway and Transportation Department as district traffic engineer. He recently gave a technical paper this summer at Western Regional meeting of the Institute of Transportation Engineers regarding signing on scenic byways.

>> 1987

John R. L. Read, (PhD 1987) Pullenvale, Queensland, Australia—John is currently the managing director of John R. Read Associates PTY, Limited. Contract Positions: Deputy Chief, CSIRO Exploration & Mining and Executive Manager, Queensland Centre For Advanced Technologies.

>> 1990

Leonard J. Madalon, Jr. (BSCE 1988, MSCE 1990) St. Louis, MO—Since leaving Purdue, Leonard spent five years with the Army Corps of Engineers,

San Francisco District as an engineer in the Water Resources Branch. From San Francisco he went to Kathmandu, Nepal and spent two years teaching physics and computers for Jesuit Volunteers International. He returned to his hometown of St. Louis and has been consulting in the Water Resources for the past four years.

>> 1991

Bryant Mather, (Old Master 1991) Clinton, MS—On September 25, 2001, The Katharine and Bryant Mather Building was "dedicated to the memory and honor of Drs. Katharine and Bryant Mather in recognition of their many contributions to the U.S. Army Corps of Engineers in the advancement of Concrete Technology as researchers, teachers, and consultants both nationally and internationally" at the U.S. Army Engineering Research and Development Center, Waterways Experiment Station, Vicksburg, Mississippi. Bryant resides in Clinton, MS.

Prentiss A. Shaw, (BSCE 1991) Monroe, NY— Prentiss recently completed her MBA program at Pace University. She currently works as a project manager/engineering consultant for Emlon/OWT Solid Waste Services.

>> 1992

Robert A. Hunt, Jr., (BSCE 1992) Glassboro, NJ—Robert currently works at Mannington Mills, Incorporated as environmental manager. Robert and his wife, Belinda, have a daughter Rebecca Anne Hunt who was born on April 21, 2001.

>> 1994

Dax P. Hoff, (BSCE 1994) Newbury Park, CA—Dax is currently associate/engineer for Haaland Group in Thousand Oaks, California. Dax and Sarah Mason were joined in marriage June 22, 2002.

Dennis D. Abel & Michelle L. Abel, (BSCE 1994 & BSCE 1994) South Bend, IN—Dennis is currently working for Pirod, Incorporated as an engineer manager in Plymouth, Indiana. Michelle was also employed by Pirod, Inc.

Dennis and Michelle would like to announce the birth of their first child, Lauren Elizabeth Abel, born on November 5, 2001.

>> 1993 and 1995

Shafiq I. Siddiqui, (PhD 1995) Spring City, PA and **Rick J. Deschamps**, (PhD 1993) Lexington, KY—Dr. Siddiqui, Dr. Deschamps and Dr. Vince Drnevich (Professor here at Purdue University, School of Civil Engineering) was awarded the ASTM Award for Outstanding Article on the Practice of Geotechnical Engineering. The article titled *"Time Domain Reflectometry Development for Use in Geotechnical Engineering"* by Siddiqui, Drnevich, and Deschamps was published in the March 2000 issue of the Geotechnical Testing Journal of ASTM. The award was presented June 23, 2002 at the ASTM Committee meeting in Salt Lake City, Utah.

>> 1996

Randall P. Post, (BSCE 1996) Fort Wayne, IN—Randall and Tricia (Gurtner), BS 1997 Pharmacy, gave birth to their first son, Matthias, born on October 3, 2000.

>> 2001

Cheryl L. Franks, (BSCE 2001) St. John, IN—Cheryl has recently taken a position with Gorove/Slade Associates, Inc. in Washington, DC. as an associate engineer. Cheryl just recently passed the E.I.T.

George F. Wahl
BSCE '24
Bethlehem PA

George A. Watson
BSCE '28
Lafayette IN

Robert C. McCann
BSCE '29
Lebanon IN

William A. Miller
BSCE '29
Frankfort IN

Elmer II Fiesenheiser
BSCE '30
Greenwood IN

George E. Goodwin
BSCE '30
Venice FL

Robeson E. Yundt
BSCE '30
West Lafayette IN

Harold J. DeLay
BSCE '32
Saint Paul MN

Lee A. Meharry
BSCE '33
Crawfordsville IN

A. Edward Piller
BSCE '33
Houston TX

Walter J. Taylor
BSCE '33
Lafayette IN

Carl E. Webb
BSCE '34
Clarence Center NY

J. W. Hubler
BSCE '35, MSCE '41
De Land FL

Frederick J. Voss
BSCE '36
Naples FL

Ira Gaston, Jr.
BSCE '39
Indianapolis IN

Charles W. Cox
BSCE '40
Indianapolis IN

Robert E. Frost
BSCE '40
Woodbridge VA

Leslie H. Curtner
BSCE '41
Berea OH

Stanley G. Abrams
BSCE '42
Bloomington IN

Robert L. Hall
BSCE '42, MSCE '47
Noblesville IN

R. Donald Sinish
BSCE '42
Fort Wayne IN

Oakley J. Gordon
BSCE '45
Salt Lake City UT

Walter C. Sherman
BSCE '46
Chicago IL

F. Bayne Simpson
BSCE '47
Columbus OH

Oral H. Hert
BSCE '48
Indianapolis IN

A. Morton Rucker
BSCE '48
Seymour IN

Edward W. Weddle
BSCE '48
Indianapolis IN

Kenneth W. Brown
BSCE '50
Indianapolis IN

Harvey N. Dean
BSCE '50
Homewood IL

Arthur L. Kirts
BSCE '51
Satellite Beach FL

Lawrence A. Tvedt Jr.
BSCE '51
Memphis TN

James G. Johnstone
MSCE '52
Littleton CO

Gerald E. Hillenburg
BSCE '53
Wheat Ridge CO

John W. Shupe
PhD '58
San Diego CA

Herbert T. Ayers
BSCE '61
Noblesville IN

William J. Kassebaum
BSCE '50, MSCE '55
Indianapolis IN

R. Ian Kingham
MSCE '63
Victoria BC V8R 5T4

James A. Maple
BSCE '60, MSCE '60,
PhD '69
Baytown TX

Ronald F. Wukasch
MSCE '65, PhD '66
West Lafayette IN

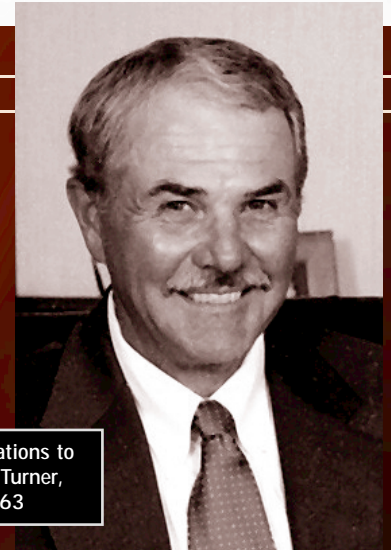
Dennis L. Zaiser
BSCE '66
Greenwood IN

Billy Ray Rice
MSCE '73
Saint Louis MO

Distinguished Engineering Alumni 2002

The Distinguished Engineering Alumnus or Alumna Award is conferred by the faculty of the Schools of Engineering in recognition of outstanding achievements in professional and related fields of endeavor. For his outstanding achievement and leadership in construction engineering and civic life, the Schools of Engineering are proud to present the Distinguished Engineering Alumnus Award to Robert L. Turner.

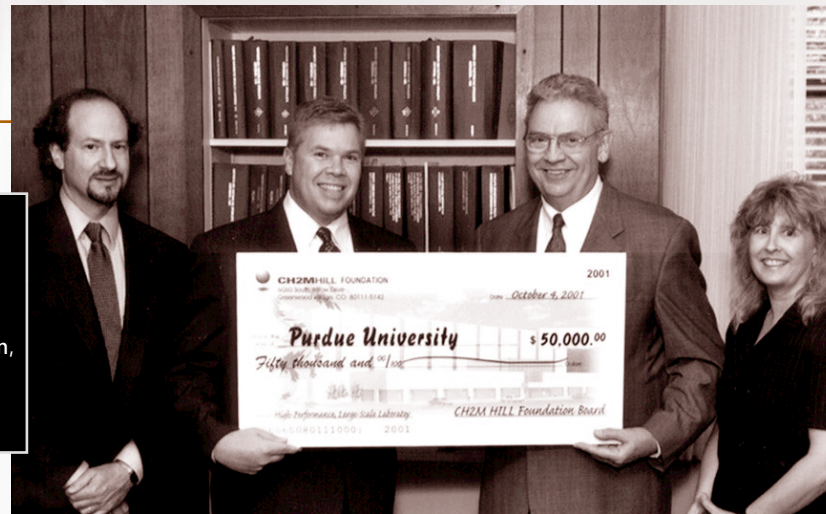
Mr. Robert Turner is the founder and chairman of the board of the R. L. Turner Corporation, a general contracting and construction firm located in Zionsville, Indiana. As a freshman in the general engineering classes, Bob had a drafting class in the old civil engineering building. Down the hallway were huge models of bridges, dams and buildings that fascinated him and made him decide that becoming an engineer is what he wanted to do. After serving in the military he took a position as a field engineer and that was the turning point. He only had \$1,000 to start a company 25 years ago and today it has grown into a successful fulfilling business. R. L. Turner Corporation is an award-winning leader in construction safety and is leading the way for other businesses in diversity. Bob and his wife Cathy have three children and reside in Zionsville, Indiana. ♦



Congratulations to Robert L. Turner, BSCE, 1963

Civil Engineering Receives Gift from CH2M Hill Incorporated

Richard Scharzt, Dean of Engineering 1995 to 2000, accepts a check from CH2M Hill for CE's High Performance Large-Scale Laboratory. Pictured from left to right: Fred Mannering, Head of Civil Engineering; Steve Wanders, Vice President, CH2M Hill (Dayton, Ohio); Richard Scharzt and Sue Frey, Senior Structural Engineer, CH2M Hill (Corvallis, Oregon).



Congratulations to Task Team #4's project "explosives separations task". From left to right Mark Morris, Jeff Frechling, Jason Sierman, Curt Sprunger, and Eric Ortman who placed first in the Twelfth Annual Design WREC Contest held in Las Cruces, New Mexico April 8-11 2002.

Waste-Management Education and Research Consortium's Environmental Design 2002 Contest Winners

CALENDAR OF EVENTS

Civil Engineering Groundbreaking for New High-Performance Large Scale Lab

September 27, 2002 — 9 a.m.

CE will have a celebration for the New Large Scale High-Performance Laboratory. (see images)

Contact: Diana Evans at (765) 494-2166
or evansd@ecn.purdue.edu



Civil Engineering Advisory Council and CE Campaign Steering Committee

September 27, 2002
Civil Engineering Building

Homecoming—Civil Engineering Breakfast

September 28, 2002
8:00-10:00 a.m. Breakfast in Civil Engineering Building, room G150, prepared by our "world famous" Faculty Chefs. All Purdue CE alumni and friends are invited to attend.

Civil Engineering Indianapolis Alumni Reception

October 3, 2002
Holiday Inn North, Indianapolis, 5:00 to 8:00 p.m.
All CE alumni and guests are welcome! Door prizes!!

OTEC Breakfast

October 23, 2002
Columbus, Ohio. For more information
Contact: Frank O'Hare, 614-794-9424, fohare@gfnet.com.

ASCE National Convention

November 5, 2002
Washington, D.C. Purdue Civil Engineering Alumni Reception.

President's Council Annual Weekend "Back to Class" session

November 8, 2002
9:15 a.m. to 4:00 p.m. Alumni and friends are welcome to visit CE and enjoy signing up for our CE class.

10th Annual Civil Engineering Alumni Achievement Awards

February 20, 2003
6:00 p.m. Purdue Memorial Union