Greetings from the Interim Dean

The College of Engineering team is comprised of dedicated alumni, advisory boards, corporate partners, friends, students, faculty, and staff. As the interim dean, I am happy to be working with these stakeholders to develop plans that will benefit our students, the state of Colorado, and the world.

During the next several months, we will focus on two new initiatives.

- **Creating an Economic Development/Corporate and Government Affairs Program:** The purpose of this program is to serve business, industry, and agencies through activities such as workforce development, continuing education, and research. This project also will serve our students by increasing the involvement of practicing engineers in our programs, increasing the number of available internships, and developing valuable partnerships.

- **Developing a Global College of Engineering:** The College of Engineering has historical strengths in the areas of international research and development. In addition, our international alumni have been extraordinarily successful. Because globalization, technology, and changing population demographics are among the many factors that will impact the future of engineering education, our goal is to build on our strengths to help prepare our students for employment in a global workforce. Among our goals are to expand study abroad opportunities and develop curricula that will better prepare our students to work internationally.

Another priority area for the coming year is improving the quality and quantity of contacts we have with you, our alumni and friends, through written and electronic communication pieces, personal meetings, and events. I view these contacts as an opportunity to learn from each other, and I assure you that we will apply that knowledge in ways that benefit our students.

I invite you to provide input on these and other initiatives currently underway within the college. Please feel free to connect with me by phone at (970) 491-3366 or by e-mail sandra.woods@colostate.edu.

Dr. Sandra Woods, a proven and respected administrator, educator, and researcher, has been appointed interim dean of the College of Engineering while a national search is conducted to permanently fill the position. Dr. Woods has been the head of the Department of Civil Engineering since 2001 and also served as the University's interim vice provost for special projects. Prior to her arrival at CSU, she spent 16 years at Oregon State University, where she was a faculty member in the Department of Civil Engineering.

The College of Engineering Development Office is committed to strengthening the educational experience we provide to our students by building relationships with alumni, corporate partners, foundations, friends, faculty, and staff.

Since its establishment in 1889, the college has formed thousands of partnerships that have enabled us to incorporate our land-grant mission of education, research, and outreach with all aspects of our daily work. Each and every day, we are building upon that base to create a greater legacy for those who follow.

Private funding plays a vital role in our quest to engineer global solutions in the 21st century. Support in the form of annual contributions, endowments, planned gifts, pledges, and equipment all impact our ability to exceed the expectations of our students.

To learn more about the ways in which you can support our mission, our students, and our cutting-edge programs, visit www.SupportEngineering.colostate.edu or contact the Development Office at (970) 491-7028 or SupportEngineering@colostate.edu.
Atmospheric Science
1371 Campus Delivery
Fort Collins, CO 80523-1371
(970) 491-8360
collett@lamar.colostate.edu
www.atmos.colostate.edu

Chemical and Biological Engineering
1370 Campus Delivery
Fort Collins, CO 80523-1370
(970) 491-5252
cheme@engr.colostate.edu
www.engr.colostate.edu/cheme

Civil Engineering
1372 Campus Delivery
Fort Collins, CO 80523-1372
(970) 491-5048
civil@engr.colostate.edu
www.engr.colostate.edu/ce

Electrical and Computer Engineering
1373 Campus Delivery
Fort Collins, CO 80523-1373
(970) 491-6600
ece@engr.colostate.edu
www.engr.colostate.edu/ece

Mechanical Engineering
1374 Campus Delivery
Fort Collins, CO 80523-1374
(970) 491-6559
mech@engr.colostate.edu
www.engr.colostate.edu/me
Since 1967, the Department of Atmospheric Science has made its home at the Foothills Campus of Colorado State University. The department’s physical space was upgraded dramatically in the summer of 2005, when the first faculty, staff, and students began occupying a new 13,000-square-foot, $2.5 million atmospheric chemistry facility. A dedicated instructional laboratory within the new facility will greatly enhance the department’s teaching of air pollution measurement and other laboratory classes.

“The new building provides our researchers and students with state-of-the-art space for their work,” states Dr. Jeffrey Collett, who served as acting department head during the facility’s construction phase when Dr. Steven Rutledge was on sabbatical. “We are excited about the many ways our educational offerings are enhanced as a result of this facility.”

Since the establishment of its Ph.D. program in 1963, the department has awarded 229 Ph.D. degrees and 546 M.S. degrees. The department currently has 14 academic faculty members who guide the formal graduate instruction program and lead its aggressive, cutting-edge research activities. There are approximately 90 graduate students enrolled in the department.

“We are thrilled to offer our students access to the laboratories and research tools located within the new building,” states Dr. Sonia Kreidenweis, professor of atmospheric science. “This facility will impact the way I teach atmospheric chemistry principles.”

Central to the department’s mission are the preparation of future leaders in atmospheric science and the development of new observational, modeling, and analysis techniques. As a result of recognition received for its renowned academic and cutting-edge research programs, the Department of Atmospheric Science has been repeatedly designated by CSU as a Program of Research and Scholarly Excellence.

“Studying atmospheric science at Colorado State is the best educational decision I’ve ever made,” shares Susan Smith, an atmospheric science graduate student. “The opportunity to study and conduct research in the new building is truly the icing on the cake.”

For more information, call (970) 491-8360 or visit www.atmos.colostate.edu.
Ball Aerospace is partnering with the Department of Atmospheric Science to provide an “out of this world” experience for students interested in remote sensing.

In the fall of 2003, Matt Lebsock became the first recipient of the Ball Fellowship, an award designed to support the work of an atmospheric science graduate student while also encouraging a scientific dialogue between Ball Aerospace and Colorado State University.

Lebsock’s research focuses on a new technology that is designed to detect and measure aerosols from space; the goal is to better ascertain the role of such particles in the climate system. “Matt’s work as the holder of the Ball Fellowship is to develop the tools to observe aerosols from future satellite instruments,” notes Dr. Graeme Stephens (pictured at right), the atmospheric science professor who oversees Lebsock’s research. “These observations, when they become available, will allow us to determine the complex role that aerosol particles play in affecting climate change. Armed with that information, we can better plan and prepare for those changes using better prediction techniques.”

Lebsock, a Ph.D. student, is thrilled to be connected with Ball Aerospace in this capacity. “It has been a rewarding experience to work with the engineers at Ball Aerospace,” states Lebsock. “This type of collaboration between the scientific and engineering communities plays a critical role in our future, as it allows us to intelligently design the next generation of environmental satellites.”

The department’s partnership with Ball Aerospace will continue through 2006. Ball Aerospace representatives are involved in the selection of the fellowship recipients and provide those students with employment during the summer between the first and second year of the fellowship award. In addition to the fellowship award, annual meetings take place between company representatives and faculty members to discuss the current and future state of remote sensing.

For more information regarding remote sensing research, contact Professor Graeme Stephens at (970) 491-8550 or stephens@atmos.colostate.edu.

Travis Bailey has joined the faculty of the Department of Chemical and Biological Engineering as an assistant professor. Bailey earned his bachelor of science degrees in both chemistry and chemical engineering from the University of Florida in 1995; he earned his Ph.D. in chemical engineering from the University of Minnesota in 2001.

Prior to his arrival at CSU, Bailey spent two years working at Intel Corporation as a senior process engineer in copper electroplating process development for 65 and 90 nm logic interconnect technologies. This experience was followed by a two-year post doctoral research appointment in the Department of Chemistry at the University of Minnesota.

Bailey’s research will focus on the thermodynamics of nanoscale self-assembly processes in block copolymer composite materials and their applications in a variety of environments, including polymer-based photovoltaics, bio-enzymatic fuel cells, chemical and biological sensing devices, targeted chemical delivery, and hydro gel-based shape memory materials.

Christian Puttlitz is a new assistant professor in the Department of Mechanical Engineering. Puttlitz graduated from Michigan State University in 1992 with a bachelor’s degree in material science and engineering. He went on to earn a master’s degree in bioengineering at Clemson University, and in 1999, he received a Ph.D. in biomedical engineering from the University of Iowa. He gained valuable experience working in the University of California, San Francisco (UCSF) Orthopedic Bioengineering Laboratory as a postdoctoral research fellow.

Puttlitz later joined the Orthopedic Surgery faculty as an assistant professor and director of the Orthopedic Biomechanics Laboratory at San Francisco General Hospital. He also was given a concurrent appointment as a member of the UCSF-UC Berkeley Bioengineering Graduate Group.

The main focus of Puttlitz’s research has been to describe the mechanical function of the normal, diseased, and repaired cervical spine.
Chemical engineering began at CSU as a program in 1977 and achieved the status of department in 2000. Since that time, it has solidified its reputation as a growing department led by highly respected faculty members who provide students with the knowledge necessary to become successful engineers. Now, its name has been changed to the Department of Chemical and Biological Engineering to reflect the increasingly important role that biology plays in the chemical engineering discipline.

“Incorporating biology as a foundation science within our educational discipline will provide our students with a great deal of versatility for entering the workforce,” notes Ted Watson, head of the department. “Our focus on engineering chemical and biological changes provides ideal training for working with existing and emerging technologies.”

The Department of Chemical and Biological Engineering offers an excellent academic program while maintaining an excellent teacher-to-student ratio. “The level of personal attention the students receive enables the department to attract the best and brightest learners into this growing profession,” states Sandra Woods, interim dean of engineering.

Revisions to the department’s curriculum will result in a greater focus on the interface between molecular sciences and engineering. These modifications will enable chemical and biological engineering students to study topics ranging from genetics and pharmaceuticals to fuel cells and catalysis.

“We have evolved from a discipline focused on a single industry to one that contributes to many different industries across a broad spectrum of biological and chemical applications,” says Watson. “I am confident that graduates of the Department of Chemical and Biological Engineering will secure key positions that will meet their personal and professional goals.”

For more information, contact the Department of Chemical and Biological Engineering at (970) 491-5252 or cheme@engr.colostate.edu.
Partners Reap Benefits
When faculty members develop relationships with local, national, and global partners, their students reap immense benefits and become empowered to achieve their goals. Thanks to Dr. Ranil Wickramasinghe (pictured below right), an associate professor of chemical and biological engineering at Colorado State, our students are receiving extraordinary opportunities to enhance their education through connections with industry and other academic institutions.

Wickramasinghe joined Colorado State’s faculty in 1998 and since then has built an impressive research program in both quality and productivity. While on sabbatical during the 2004-2005 academic year, Wickramasinghe worked in Germany at the Max Planck Institute, the University of Duisburg-Essen, and Sartorius AG, a major manufacturer of biotech equipment in Germany. These collaborations have provided unique opportunities for his researchers at Colorado State.

Because Wickramasinghe is dedicated to his students and to education at all levels, he takes great pride in designing projects that match students’ education and career interests. Shane Bower, a chemical and biological engineering Ph.D. student, notes, “As a result of Dr. Wickramasinghe’s efforts to maintain meaningful relationships with industry and government laboratories, I have the opportunity to work at the National Renewable Energy Lab (NREL) in Golden. I will be designing, developing, and executing hydrolysis studies, which will provide me with experience conducting independent Ph.D.-level research while still in graduate school.”

Binbing Han, a postdoctoral fellow in the Department of Chemical and Biological Engineering, is thankful for the opportunity to work closely with Wickramasinghe and partner with him on key research projects. “Bioscience and engineering are some of the fastest growing research areas worldwide,” notes Han. “Our multidisciplinary work has allowed me to delve into areas with which I have never before been involved.”

Students Connect with Industry
In cooperation with regional industry representatives, the College of Engineering at Colorado State University is working to connect students with internship and employment opportunities in a targeted setting.

At the suggestion of its external advisory board, the Department of Chemical and Biological Engineering hosted the college’s first Internship and Career Fair during the spring semester of 2002. In 2005, the annual event was expanded to include civil engineering companies and agencies, and all engineering students were invited to participate. In the future, the event will be enhanced by expanding representation to include an even greater breadth of industries.

“Internships help students refine their field of interest, put classroom learning to work in a real-world environment, and become familiar with interviewing and networking exercises,” states Dr. Ted Watson, head of the chemical and biological engineering department. “The Internship and Career Fair allows our students to connect with industry representatives prior to graduation.”

Prior to the event, undergraduate and graduate students worked diligently on their resumes, application materials, and interviewing techniques. “I have attended other career fairs, but the Engineering Internship and Career Fair was by far the most valuable,” says Che Yun Chan (pictured above right), a civil engineering student. “I learned that there is a wide selection of employment choices available within the engineering industry, and my participation helped prepare me for what lies ahead.”

This event offers employers a more focused recruiting environment than do the larger campus-wide career fairs. “The Engineering Internship and Career Fair offers opportunities to hold meaningful conversations with CSU engineering students,” shares Marta Turnbull, senior manager of contracts and intellectual property at ADA Technologies, Inc. “We are able to connect with well-prepared and knowledgeable engineers-in-the-making and recruit them for open positions within our organization.”

More than 30 companies and 200 students participated in the 2005 Engineering Internship and Career Fair. The next fair is scheduled for January 31, 2006.
Online education is growing steadily in terms of interest and impact, and the Department of Civil Engineering at Colorado State University is positioning itself to be a leader in the area of water resources distance education.

In the spring of 2003, civil engineering Professor Darrell G. Fontane began offering an online course entitled “Water Resources Systems Analysis.” This course was one of the first courses the department offered in a web-based format; the department is now finalizing plans to offer an online master of engineering degree with an emphasis in water resources.

Throughout the course, students were required to complete a variety of simulation activities, including water balance simulation and optimization concepts for rivers, canals, and reservoirs. Simon Rusjan fulfilled the course requirements from his home near the University of Ljubljana in Ljubljana, Slovenia. Rusjan states, “While the problems we worked on were not directly comparable with Slovenian water resource facilities from spatial, monetary, or even data availability point of view, the principles presented can be applied to optimize the functioning of our water resources facilities.”

“I was pleased that an international student in Europe could be so easily integrated into the course,” notes Fontane. “The interactions between our domestic distance students and Rusjan in Slovenia were successful, and as a result, I hope that increasing numbers of international students will enroll in the future.”

Laura Cameron, a civil engineer for the Corps of Engineers, was pleased that the coursework directly applied to her current job. “Dr. Fontane used examples that crossed from the academic world to the working world,” she said. “He always made time to answer my questions, and he spent time answering questions for me even when they did not directly relate to the subjects being covered.”

For more information on the department’s online offerings, call (970) 491-5048 or send an e-mail to civil@engr.colostate.edu.

Alumni Share Insights with Future Students

At a Denver-area brunch held in the spring of 2005, high school students interested in pursuing a civil engineering education at Colorado State were given a unique opportunity to network with the department’s alumni, faculty, and staff.

The department’s goal in hosting this innovative event was to connect prospective students with its alumni. “This gathering allowed the department to foster relationships between our graduates and the next generation of CSU civil engineering students,” states Kathleen Seligmann, civil engineering development coordinator.

The brunch included an overview of civil engineering education at CSU, the presentation of book scholarships to student attendees, and an alumni panel discussion that addressed career opportunities and the role that student clubs and organizations play in the educational experience.

“Talking with real professionals created a vision for what can truly be achieved with a [civil engineering] degree,” shares John Avery, a student who attended the event.

Dave Frazier, a 1972 alumnus and vice president of Merrick & Company, participated in the event because he believes it is important to promote Colorado State as an excellent choice for an engineering education. “Faculty members within the college are uniquely qualified in many different specialized areas of engineering,” he notes. “More importantly, CSU’s engineering faculty, compared to other colleges across the state, seem to take a more personal interest in the development of each student in their engineering program.”

The department has been pleased with the impact the event had upon students who expressed interest in attending Colorado State. More than 50 percent of the students who attended the 2005 brunch already have committed to attending the University’s Preview freshman orientation and registration program.

Students or alumni who are interested in attending future civil engineering events should contact the department at (970) 491-5048 or civil@engr.colostate.edu.
In 2005, members of Colorado State University’s chapter of Engineers Without Borders (EWB-CSU) traveled to El Salvador, India, and Nepal to share their time, talents, and knowledge with those in need of assistance.

Engineers Without Borders is a nonprofit organization established in 2000 to help developing areas with their engineering needs by involving and training internationally responsible engineering students. The students’ goal is to incorporate and train the community in all phases of the sustainable project to ensure ownership, appropriateness, and long-term effectiveness of their project.

EWB-CSU has undertaken a project involving the implementation of a sustainable water supply system for residents of La Laguneta, El Salvador. For six months out of the year, the people of La Laguneta have a very limited local water supply. Each family has access to approximately 10 gallons of water per day during this time, which they may use for cleaning, cooking, and bathing. “In contrast, the average person in Fort Collins will use 150 gallons of water per day,” said Gabriel Miller, a civil engineering student on the team. The project team traveled to El Salvador twice in 2005 to prepare for the implementation of the new water supply system.

The EWB-CSU team also traveled to Purulia, India, to work with the Fort Collins-based nongovernmental organization, Village Earth, on the creation of clean water supply systems for villages that are severely impacted by drought. The Colorado State students performed groundwater reconnaissance and conducted a public health survey in these villages.

In addition, the EWB-CSU team worked with another EWB chapter at Tribhuvan University in Nepal on the design of improved cook stoves. The EWB-CSU team traveled to rural Nepal in 2005 to begin implementation of that project.

Those interested in donating air miles to assist with CSU-EWB’s travel should contact the College of Engineering at (970) 491-7028 or SupportEngineering@colostate.edu. For more information regarding CSU-EWB, visit www.engr.colostate.edu/ewb.
When cutting-edge faculty members undertake ground-breaking research, Colorado State engineering students are the beneficiaries.

Since arriving at CSU in the fall of 2003, electrical and computer engineering Assistant Professor Dr. Randy Bartels has earned several prestigious national awards worth more than $1 million. Bartels’ receipt of the National Science Foundation Faculty Early Career Development Award, the Office of Naval Research Young Investigator Award, the Beckman Young Investigator Award, the Sloan Research Fellowship, and the Optical Society of America Adolph Lomb Medal firmly establishes him as a rising star in his field.

Bartels heads CSU’s Laboratory for Ultrafast and Nonlinear Optics. His research concentrates on the generation and control of short laser pulses and their use for the control of quantum dynamics. Bartels hopes to provide a new method for controlling and detecting molecules, which ultimately may result in new approaches to treatment of diseases. Other applications of Bartels’ research include the creation of ultra-stable optical frequency sources for optical clocks as well as the use of laser pulses as a medical diagnostic imaging technique.

Funding such as this helps Bartels provide College of Engineering students with a challenging and inspiring research environment that exceeds expectations. “Because Dr. Bartels is an experimentalist and most of my previous work has been computational in nature, our work results in a complete scientific connection,” notes Omid Masihzadeh, an electrical and computer engineering student who works closely with Bartels.

“Our research, which combines computation and experiments in a unique setting, allows us to maintain close connections with industry to ensure that we are addressing societal needs.”

– Omid Masihzadeh

Prior to joining CSU’s Department of Electrical and Computer Engineering, Bartels earned a doctoral degree in electrical engineering at the University of Michigan-Ann Arbor. For more information on Bartels and his research, visit www.engr.colostate.edu/ultrafast or call the department at (970) 491-6600.
Electrical and computer engineering has a significant presence on Colorado’s Front Range. To assist with future growth of the semiconductor industry in this region, the Department of Electrical and Computer Engineering at CSU is partnering with public and private entities to provide education and retraining opportunities.

The goal of the Partnership for Engineering Education in the Rockies (PEER) program is to increase the quality of employee candidates in this area. “By partnering with our local educational and industrial partners, we will begin to see more interest and participation in the semiconductor field, ultimately leading to a larger, higher-quality workforce,” says Tom Chen, ECE professor and leader of PEER.

Current PEER partners include Colorado State University, Poudre School District, Front Range Community College, and Intel. “Intel is pleased to provide technical assistance, teacher training, and real-world engineers as instructors,” states Doug Bartlett, director of engineering. “We are confident that our collaborations with CSU through the PEER program will help address the future needs of the electrical and computer industries.”

Together, the PEER partners provide introductory electrical engineering courses at local high schools; associate degree and certification programs at Front Range Community College; industry-tailored undergraduate and graduate studies at Colorado State University; industry research opportunities in the form of summer camps; and internship opportunities with regional companies.

One component of the PEER program is a summer camp that teaches high school students the basics of electrical and computer engineering. “Our access to the laboratories and hands-on activities was practically unlimited, which made learning much easier,” shares Tahlia De Maio of Brighton (Colorado) High School, a 2005 summer camp participant.

The PEER program is supported by the Colorado Institute of Technology and the National Science Foundation, with combined funding of more than $800,000 for three years. To learn more about this exciting initiative, visit the PEER website at www.engr.colostate.edu/PEER/.

In an effort to better meet the needs and interests of our engineering audience, the Development Office recently began offering a number of technology-based resources and tools.

www.SupportEngineering.colostate.edu: When the Development Office unveiled a new website in the fall of 2004, our engineering alumni, friends, faculty, and staff found a wealth of useful information at their fingertips. Visitors to the site have access to current information regarding events and activities, college and department news, research, facts at a glance, ways to become involved, online giving, and much more. “We designed our website with the goal of providing resources that benefit our alumni, donors, and friends,” shares Roxanne Fry, assistant director of development for the College of Engineering. “We encourage you to visit the site and provide us with feedback regarding ways we can continue to improve our content, tools, and offerings.”

Alumni e-mail addresses: The college offers our alumni the opportunity to receive a free, lifetime e-mail address, which will help you stay connected with your alma mater. The college will provide you with a permanent, easy-to-remember e-mail address that denotes your status as a CSU engineering alumnus. The account will provide you with 5 MB of e-mail storage space; it sends attachments of up to 5 MB in size; and it allows you to maintain your affiliation with the CSU College of Engineering.

Monthly e-newsletters: Each month, the college sends a concise and informative e-newsletter to keep alumni and friends apprised of our activities. The e-newsletter contains links to stories highlighting our students, faculty, alumni, and partners.

To request an e-mail address or have your name added to the e-newsletter distribution list, contact the college at (970) 491-7028 or SupportEngineering@colostate.edu.
The generosity of Mr. Robert Anderson, a 1943 mechanical engineering graduate, is significantly impacting our students’ hands-on educational experiences and helping them learn how to succeed in an integrated, interdisciplinary engineering design environment.

In 2005, Anderson donated $25,000 in support of the Mechanical Engineering Senior Design Practicum. “The practicum is the capstone of our undergraduate curriculum,” says Dr. Allan Kirkpatrick, department head. “Mr. Anderson’s gift is helping us provide students with the skills and experiences they need to prepare for today’s workplace.”

Anderson designated a portion of his gift for enhancements to the Robotics and Autonomous Machines Lab (RAMLab). This funding allowed the department to augment the RAMLab environment, which currently houses senior design projects, undergraduate and graduate research projects, high school outreach programs, summer enrichment programs for grade school children, and teaching lab space for graduate robotics classes.

Anderson began his career with Chrysler Corporation in 1946 as a graduate student at the Chrysler Institute of Engineering, where he earned a master’s degree in automotive engineering. He held several engineering positions with Chrysler before joining Rockwell International Corporation in 1968. He served in numerous leadership positions for Rockwell, including chairman and chief executive officer; he retired in 1988 and is currently chairman emeritus.

In addition to his support of the mechanical engineering design program, Anderson played an instrumental role in the 1989 establishment of the college’s Anderson Assistant Professorship and the Anderson Computer Lab. “I owe something to the institution that helped me get to where I am,” Anderson reflected. “It’s very important that we give something back to the places from which we’ve taken something out, places that have meant so much to our lives.”

Anderson currently resides in Los Angeles, California.
Students Take It to the Slopes

Colorado may be Ski Country, but not all Colorado State students “hit the slopes” in the traditional manner.

Throughout the 2004-2005 academic year, students from the Department of Mechanical Engineering worked extensively with Vail Resorts to design and develop innovative energy management solutions of their mountain operations. A “P3 Award” from the Environmental Protection Agency provided funding for the project.

Mechanical engineering students Seth Jansen, Ashley Davis, and Jesse Dean were members of the student design team, NetEnergy, which stems from the Mechanical Engineering Senior Design Practicum. Jansen states, “Improved environmental performance is an ongoing effort in the ski industry; this project complements industry efforts and has potential economic benefits as well.”

The NetEnergy team, under the guidance of Professor Wade Troxell, partnered with Vail Resorts, the National Ski Areas Association (NSAA), and the Brendle Group to explore onsite energy generation and opportunities for using renewable resources, and energy storage for ski resorts. Davis notes, “Prior to this, there has been no comprehensive research on energy management, distributed generation, or energy storage within ski industry operations.”

Jeffrey Babb, Vail Resorts operations director, commented on the value of partnering with CSU and interacting with its engineering students. “This team researched innovative methods of integrating existing ski area infrastructure,” Babb shares. “The students helped to create a more robust, flexible, and sustainable energy cycle.”

Judy Dorsey, president of the Brendle Group and a 1992 alumnus of the Department of Mechanical Engineering, was pleased to support this student design team. For the past 10 years, Dorsey’s work has been focused on sustainable design and pollution prevention. Dorsey shares, “This was a wonderful opportunity to connect with my alma mater and provide current students with the resources necessary for their success. Collaborating with the College of Engineering has been rewarding for me both personally and professionally.”

For more information, contact the Department of Mechanical Engineering at (970) 491-6559 or mech@engr.colostate.edu.

Students Learn Importance of Giving Back

The College of Engineering has announced the creation of a Student Fund Drive, which is jointly coordinated by the Development Office and the Office of the Associate Dean for Academic Affairs.

Because the drive is designed to encourage a sense of ongoing commitment to the college and its department, student participation, rather than the level of giving, is the focus of the program. “We are hoping to develop a philanthropic culture among our student body,” states Roxanne Fry, assistant director of development for the College of Engineering.

Mechanical engineering student Mike Conboy made a gift in support of his department’s Senior Design Practicum. He shares, “The Mechanical Engineering Senior Design Practicum is more rigorous than that of many other schools, providing experiences that better prepare us for the transition to graduate school or industry. I want to help ensure that future students receive the same experiences.”

Each department selected a student-giving liaison who worked closely with the Development Office. Thanks to the hard work of these student leaders, more than 75 students, faculty, and staff members gathered for a bowling event to kick off the drive. Shawn Klawitter, the chemical and biological engineering student-giving liaison, encouraged his fellow students to consider giving back to their department. “When students make a gift to the chemical and biological engineering department, they ensure that they have the means to be competitive with other schools.”

Ryan Fleming (pictured at left), the student-giving liaison for the Department of Civil Engineering, points out the educational benefits that students reap as a result of private support. “It’s great that we have an opportunity to give something back and make the college even better.”
Distinguished Alumni

2005 College of Engineering Distinguished Alumni Award Winners:

Dennis L. Peery (1971) and Mary E. Peery (1984)

Dennis Peery retired from Hewlett-Packard in 2000 after serving 35 years in positions ranging from R&D engineer to manager of project manufacturing engineering, quality, customer satisfaction, and regional facilities. In addition to his degree from Colorado State University, he earned an associate's degree in electrical engineering technology from Brigham Young University in 1965.

Mary Peery is currently the senior vice president of strategic change management for Hewlett-Packard’s imaging and printing group. She joined Hewlett-Packard in 1984 and throughout her career worked in divisions that focused on mass storage, digital imaging, and other leading-edge technologies. Her professional highlights include being named the general manager of Hewlett-Packard’s hardcopy scanner division in Greeley, Colorado, in 1998 and becoming Hewlett-Packard’s vice president of digital imaging in 2000. In 2002, Mrs. Peery was named Hewlett-Packard’s senior vice president of digital imaging and publishing.

Mr. and Mrs. Peery reside in Loveland, Colorado.

2005 Mechanical Engineering Distinguished Alumni Award Winner:

Dr. Scott L. Delp (1983)

Dr. Delp is a professor of bioengineering and of mechanical engineering at Stanford University. He was employed by Hewlett-Packard in Fort Collins for two years following graduation from Colorado State University and subsequently earned his Ph.D. from Stanford University in 1990. Dr. Delp joined the faculty at Northwestern University in 1991, and in 1999, he returned to Stanford and began serving as the chairman of the biomechanical engineering division of Stanford’s mechanical engineering department. In 2002, he was named the founding chairman of Stanford’s bioengineering department, a new department based in the schools of engineering and medicine.

Dr. Delp currently resides in Stanford, California.

2005 Civil Engineering Distinguished Alumni Award Winner:

H. Edward Lecuyer (1950)

Mr. Lecuyer is the co-founder of Merrick & Company, which began primarily as a civil engineering and surveying company. In response to client demands for a broader range of services from a single source, the company steadily expanded its scope of operations to embrace all of the traditional engineering disciplines as well as architecture. The company further expanded its range of technical services in the late 1980s to include geographical information services (GIS), process engineering, and material handling equipment design and fabrication. Since 1991, Merrick & Company has been consistently ranked by Engineering News Record (ENR) as one of the top 200 design firms in the United States.

Mr. Lecuyer and his wife, Marjie, reside in Hays, Kansas.
2005 Electrical and Computer Engineering Distinguished Alumni Award Winner:

Parker S. Stafford (1959)

Mr. Stafford has been involved with the aerospace industry for more than 45 years. His career highlights include serving as the vice president and chief engineer of Lockheed Martin’s aeronautics division and astrospace divisions, earning the NASA Public Service Award for Viking Mars Lander in 1977. He completed the Harvard Advanced Management Program in 1983 and received the LMC Jefferson Cup as Manager of the Year in 1989. After retiring from LMC, he received the General Palmer Consulting Award in 1997. He is currently a consultant to NASA on several space programs.

Mr. Stafford and his wife, Sally, reside in Melbourne, Florida.

2005 Engineering Science Distinguished Alumni Award Winner:

David K. Ferguson (1983)

Mr. Ferguson is currently employed by Apple Computer, where he is responsible for the USB software team. He was the founder of two start-up companies: PerFit, a computerized exercise equipment manufacturer, and Outbound Systems, a portable computer manufacturer. He also assists his wife, Ellen, with her race car data acquisition business, Veracity Racing Data. Mr. Ferguson has a passion for motorsports and has been involved for more than 20 years with Marque Club Driver Training and Sports Car Racing. He has won numerous season championships in SCCA autocrossing and road racing at the regional, divisional, and professional levels.

Mr. Ferguson resides in Sunnyvale, California.

2005 Chemical and Biological Engineering Distinguished Alumni Award Winner:

Elizabeth Caldwell Walzel (1984)

Ms. Walzel has been employed by The Dow Chemical Company for more than 20 years and currently serves as the director of the Specialties and Ventures Technology Center. Although her major focus throughout the years has been in manufacturing, she also has completed assignments in EH&S, engineering, and integrated supply chain. She has held leadership positions since 1989 and has completed executive education coursework at the Thunderbird American Graduate School of International Management.

Mrs. Walzel and her husband, Michael, reside in Lake Jackson, Texas with their two children, Tommy and Katie.

2005 Atmospheric Science Distinguished Alumni Award Winner:

Dr. William M. Frank (1973, 1976)

Dr. Frank is currently a professor at Pennsylvania State University. Prior to attending Colorado State University, he earned a bachelor of science degree in aeronautical engineering from the Massachusetts Institute of Technology in 1968. Dr. Frank was a flight test engineer in the U.S. Air Force from 1968-1972 and served as a CSU research associate from 1976-1978. He served as an assistant professor at the University of Virginia from 1978-1982 and began his work at Pennsylvania State University in 1982 as an assistant professor. He served as the head of the Department of Meteorology at Pennsylvania State University from 1986 to 1992.

Dr. Frank and his wife, Kathy, reside in Boalsburg, Pennsylvania.
Neil Grigg, a longtime professor with the College of Engineering, was honored in April 2005 for his significant contributions to Colorado State University. In recognition of his work, Grigg received the Distinguished Faculty Award from CSU’s Alumni Association.

Grigg earned his doctorate in hydraulic engineering from Colorado State University in 1969 and began his career here in 1972 as an associate professor. In 1974, he took a position at the University of North Carolina Water Resources Research Institute and rejoined CSU as a professor in the Department of Civil Engineering in 1982. He has served as director of the Colorado Water Resources Research Institute, director of the Water Center, head of the Department of Civil Engineering, director of the University’s Office of International Education, and director of the International School for Water Resources at Colorado State.

“Neil’s contributions to students through education, research, and service are exemplary,” said Sandra Woods, interim dean of the College of Engineering. Grigg is nationally and internationally known for his expertise in water resource planning and management, public works infrastructure management, water law, urban water systems, and disaster preparedness. He has led professional delegations to countries including China, Japan, Vietnam, and South Africa and served as a consultant for several United Nations agencies. His network of previous graduate advisees extends to more than 30 nations around the world.

Grigg is a loyal supporter of the college and its mission. In 2000, he and his wife, Peggy, established the Grigg Family Graduate Scholarship in Water Resources Engineering; the scholarship provides graduate scholarship support to students studying water engineering.

Colorado State University honored Robert L. Walker, a successful alumnus and longtime supporter, as the College of Engineering Honor Alumnus at the 2005 Distinguished Alumni Awards dinner.

Walker, who graduated from the Department of Mechanical Engineering in 1956, is a successful engineer and businessman, having founded a number of aerospace businesses that have grown to achieve national and international stature. He also has been a strong supporter of the Department of Mechanical Engineering, providing gifts that have greatly enhanced educational opportunities for our students.

Walker was the founder of Space Data Corporation, an aerospace company, and since 1976, he has been the president of PNI, Inc., a privately owned investment company in Arizona. He is also the chairman and CEO of International Leisure Hosts, Ltd., which owns and operates Flagg Ranch Resort, a seasonal resort located near Yellowstone National Park.

He was a member of the College of Engineering’s first Dean’s Advisory Board, a recipient of the Personal Service Award for the College of Engineering, and the 2004 College of Engineering Distinguished Alumni Award winner. In addition, he played a central role in establishing what has become the SAE International Snowmobile Challenge. This event allows students to design, build, test and compete with snowmobile engines that are at or beyond the current state-of-the-art technology in two-stroke engines.

Since 1999, the Walker family has generously supported undergraduate scholarships for mechanical engineering students with high academic achievement. In addition, the Walkers have provided gifts in support of the Mechanical Engineering Senior Design Practicum. “The College of Engineering is grateful for the outstanding leadership and generous support that the Walker family has provided throughout the years,” says Sandra Woods, interim dean. “Bob and Bonnie are important members of our team, and we are very proud of their successes.”

Walker and his wife, Bonnie, have three children, all of whom graduated with degrees from Colorado State.
Faculty and Staff Giving Shows Commitment

Each year, the College of Engineering Faculty/Staff Drive provides opportunities for our internal constituents to support a department, program, or project area of their choice. During the 2004-2005 fiscal year, the generosity of our faculty and staff resulted in gifts totaling more than $90,000; these gifts demonstrate their commitment to our mission and are helping us prepare our students for successful, rewarding careers.

Dr. Neil Grigg, a faculty member in the Department of Civil Engineering, is pleased that his contributions to the college help shape the lives of students, much like gifts that others provided helped shape his own life. He says, “The funding that supported my graduate studies helped me get a start in a career. I plan to do what I can to help others have the same opportunities.”

In partnership with the thousands of alumni and friends who make gifts to the college, our faculty and staff make contributions to the college because they understand how it impacts our students: private support provides students with scholarships and fellowships, attracts and retains high-caliber educators, and ensures that our laboratories are equipped with state-of-the-art equipment.

Claire Lavelle, executive assistant and outreach coordinator for the Department of Chemical and Biological Engineering, recognizes the importance of giving back. She notes, “I support the College of Engineering and the Department of Chemical and Biological Engineering because I believe it shows a loyalty to our efforts. I want the college and our department to be successful, and I know that my gift helps make that possible.”

Scholarship Luncheon

Honors Donors, Students

Scholarships and fellowships honor the brightest students enrolled in the College of Engineering by recognizing and rewarding their hard work, accomplishments, and potential. Scholarships also help us recruit and retain students, empower them to successfully enter the workforce, and enable those in need of financial assistance to achieve their dreams.

Because the impact of a scholarship donation is significant and long-lasting, the College of Engineering honors donors and recipients at its annual Scholarship Recognition Luncheon. The 2005 event brought together more than 250 individuals to celebrate the generosity of our donors and the accomplishments of our students. “The scholarship I received made graduate school an attainable goal,” shared a sophomore electrical and computer engineering student. A sophomore civil engineering student noted, “My scholarship reinforces what led me to Colorado State University; that CSU is uniquely dedicated to its students’ academic pursuits.”

Shannon Davis, scholarship coordinator for the College of Engineering, notes that there are several types of scholarship accounts that can be established, depending on the magnitude of donors’ contributions and their desire for continuing the scholarship in perpetuity. “Each scholarship account is unique because it is based on the donor’s wishes,” Davis notes.

The 2006 Scholarship Recognition Luncheon is scheduled for Thursday, March 23 in the West Ballroom of the Lory Student Center. If you would like to discuss opportunities to impact student learning through scholarships, please contact the College of Engineering.
Special Recognition July 1, 2004 – June 30, 2005

Every effort has been made to ensure the accuracy of this donor honor roll. We sincerely apologize for inadvertently misspelling or omitting the name(s) of anyone who contributed during the past fiscal year. We appreciate the opportunity to correct our records. Please advise us of any errors by calling (970) 491-7028 or e-mail: SupportEngineering@colostate.edu.

Donors are listed in alphabetical order according to year of graduation.

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*Indicates deceased.
Create an endowment. You can do this now with cash or stock, or later with an estate gift. Your fund will make a lasting difference by producing income every year for the purpose you choose.

Leave a bequest. Designate an amount or percentage of your estate for a specific purpose or for unrestricted use. Your gift will provide encouragement and always make a difference.

For more information on ways you can make a difference at Colorado State, call toll-free 1-866-CSU-GIVE (1-866-278-4483) or email SupportCSU@ua.colostate.edu

Visit www.plannedgiving.colostate.edu
Class Reunions

Each fall, the College of Engineering hosts reunions for those who graduated 25 and 50+ years ago. These reunions are held in conjunction with the University’s Homecoming/Family Weekend, allowing attendees to participate in campus-wide events such as the annual parade and the football game.

“Engineering class reunions are a great way to reminisce with old friends, share past memories, and allow the college to honor the years that have passed since your graduation,” notes Shannon Davis, who coordinates the college’s events. Attendees are treated to special events such as a dinner hosted by the Dean, a tour of the renovated engineering building, and a continental breakfast in the college’s Internet Café.

Clint Strachan, a 1972 and 1979 alumnus of the Department of Civil Engineering, attended his 25-year reunion in the fall of 2004. “I enjoyed the 25th anniversary activities hosted by the College of Engineering. The dinner and other activities were well organized, and I appreciated the effort made by the college in reaching out to alumni.”

For more information regarding engineering class reunions, please contact the college at (970) 491-7028 or SupportEngineering@colostate.edu.

Alumni Awards Dinner and Dance

The College of Engineering’s Alumni Awards Dinner and Dance provides alumni, their guests, engineering friends, faculty, staff, and students the opportunity to enjoy a relaxed evening of dining, entertainment, and conversation. The event provides the perfect setting to rekindle past friendships and make new acquaintances, all while enjoying music by Kenny Cordova and the Olde Rock Band.

The 2005 event featured the presentation of an honor award to one alumnus from each of the college’s five academic departments, as well as to one Engineering Science alumnus and one college-wide recipient. The 2005 award winners are: College of Engineering, Dennis Peery, ’71, and Mary Peery, ’84; Atmospheric Science, William Frank, ’73, ’76; Chemical and Biological Engineering, Elizabeth Walzel, ’84; Civil Engineering, Edward Lecuyer, ’50; Electrical and Computer Engineering, Parker Stafford, ’59; Engineering Science, David Ferguson, ’83; and Mechanical Engineering, Scott Delp, ’83.

Each year, the College of Engineering honors one outstanding alumnus from each of our five academic departments, as well as one alumnus who graduated with an Engineering Science degree, one college-wide honoree, and one graduate of the last decade. Recipients of our Distinguished Alumni Awards are former students who, by their distinguished career and service to the college, university, state, nation, or world, have brought honor to the College of Engineering, Colorado State University, and themselves.