



Department of  
**Construction  
Management**

*FALL 2008*

**The Road to  
*EXCELLENCE***

**Colorado  
State**  
University

COLLEGE OF APPLIED HUMAN SCIENCES

# Advancing Construction Management Along the Road to Excellence

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## On the Road to Excellence

Colorado State University's Department of Construction Management is on the Road to Excellence: We are committed to becoming the highest-quality construction management program in the country.

It is an honor to serve as the new department head of construction management.

Author Perry Paxton once said, "Excellence is in the details. Give attention to the details and excellence will come." This past year, our department has focused on the many details that will lead us to our destination.

Our highest priority has been to create an environment that will promote and sustain a first-rate educational experience for our students. This requires hiring and retaining first-class faculty. With wholehearted support from our college and the University's administration, our department received the go-ahead and funding to hire six new faculty, two of whom have joined us this fall.

With more than 1,000 students enrolled, CM is the University's largest major. So that we may continue to provide a quality education to our students, the administration has approved our proposal to cap enrollment at 800. We also have raised the bar for students to be accepted into our program.

Our faculty and staff have worked together to create a strategic plan that now serves as our map, guiding us along the Road to Excellence. The plan lays out the details for how we will become the premier construction education program. This includes strengthening our partnerships with industry, as evidenced by the Industrial Sciences Building renovation, paid for entirely by the industry, and the near completion of the first phase of our initiative to create an endowed chair in heavy construction management.

The energy and enthusiasm within the department are palpable. After he visited campus, one of our new faculty



members told me, "One reason I'm coming to Colorado State is that every faculty and staff member I saw was very excited about the program."

Our students are excited, too, and are traveling along the road with us, taking leadership roles in our program and their education. They are spearheading a new seminar series that will bring industry members into the classroom to talk about construction topics of interest to students. This exciting initiative provides another opportunity for industry to be directly involved with our students and vice versa.

This year, the Road to Excellence Fund was established to support faculty and staff development. Part of the funds also are designated for students, thanks to the involvement of recent graduates Chris Musgrave and Meghan Bonich. Wishing to give back to the program, they have donated to Road to Excellence Fund scholarships, to be awarded to students who demonstrate strong leadership skills.

We are well on our way on the Road to Excellence, and we look forward to you joining us on this journey.

A handwritten signature in black ink, appearing to read "Mostafa Khattab".

Mostafa Khattab, Department Head

*Last October, Colorado State's College of Applied Human Sciences named Mostafa Khattab CM's new department head. Khattab, who previously served as the associate department head and interim department head, was named to the position after a national search.*

### CM Strategic Plan:

# Roadmap to Achieving Excellence

Over the last year, CM faculty and staff have contributed to identifying the department's core values and developing a strategic plan that will lead the department to its goal of becoming the nation's best construction management program.

"Developing a strategic plan with input from faculty, staff, and students is a difficult but necessary endeavor," says Mary Nobe, who headed up the department's strategic planning committee. In March, CM faculty and staff adopted a planning document that is guiding the department toward its short- and long-term goals.

"In the recent past, our department has faced significant challenges that have stretched our people and our resources to their limits," says Nobe. "As we look to the future, we need to re-evaluate and clarify what is important to us as a collective unit. Our strategic plan reflects our departmental vision and mission and, more importantly, our values. Our department has unlimited potential that, once pulled together and focused, will lead to great achievements by our faculty, staff, and students."

Following are the guiding principles driving the department's activities:

### Vision

The Department of Construction Management at Colorado State University will attain prominence as the country's highest-quality construction program, forging collaborations among disciplines with similar interests and also among industry, alumni, and international partners.

### Mission

... is to advance the knowledge and practice of construction management for the betterment of society through teaching, applied research, and service to local, national, and global communities.

### Values

#### **Provide the highest-quality construction management education.**

Share a passion for learning, discovery, and serving. Encourage, recognize, and reward innovation, research, teaching, and service. Foster development personally, professionally, and as a department. Embrace change as an opportunity to better our program.

**Make a positive difference in the lives of students.** Provide students with the knowledge and tools that will enable them to succeed in their careers and act responsibly and caringly in their personal lives and as global citizens. Maintain a passion for lifelong learning and strive to inspire that passion in our students.

**Be a part of something larger than our individual selves.** Support the success and well-being of every member of the Construction Management family. Appreciate and celebrate our individual and collective achievements, which strengthen our department, enrich our organizational culture, and make us better educators. Care about and support our colleagues and our students.

**Exhibit professionalism.** Value and model integrity, honesty, accountability, and skills that are central to a construction professional. Project a professional image. Maintain a professional working environment. Value the autonomy and independent thought and work of each member of the Construction Management family. Respect each person's contributions. Encourage open communication, teamwork, and cooperation.

**Care for our environment.** Care about the communities in which we play a part: campus, local, state, national, and global. Promote the social, environmental, and economic aspects of sustainability with special emphasis on community, healthy living, and human equality.

## Highlights

- Solicit evaluative input and curricular improvement recommendations from external advisory boards, focus groups, and senior exit surveys.
- Foster involvement of construction industry professionals in the classroom.
- Promote faculty and graduate internships within the industry.
- Engage top undergraduate students in research center projects and initiatives, as appropriate.
- Seek collaborative international teaching, research, and service opportunities, and invite faculty and students to participate.
- Develop a plan to update and enhance research facilities and equipment based on needs related to the department's mission.
- Solicit industry input on relevant research topics.
- Serve as a community resource for education, discussions, planning, and projects in the department's areas of expertise.
- Create activities that engage faculty and students with industry, communities, alumni, and other external groups.
- Seek endowment opportunities to increase recognition of leading department programs.

## Students

### MCAA Student Chapter Receives Gift, Wins Award



Present for the CAMPC award presentation were (left to right): CAMPC board member Tom Stone, College of Applied Human Sciences Dean April Mason, CM Department Head Mostafa Khattab, and CAMPC Executive Director Dave Davia.

In December, the Colorado Association of Mechanical and Plumbing Contractors (CAMPC) made a \$100,000 gift to CSU. The funds are supporting the Mechanical Contractors Association of America (MCAA) Student Chapter in the CM department.

The student chapter has repeatedly distinguished itself, thanks largely to the ongoing and enthusiastic involvement of MCAA members. This past year, Colorado State was one of 20 MCAA Student Chapters to enter the association's Dec. 31 national student competition and was among the four top-scoring teams. Judges selected the teams based on the quality, accuracy, feasibility, and originality of their written proposals.

The winning teams later presented their proposals at the MCAA 2008 conference in Palm Desert, Calif., where CSU's team received honorable mention recognition. In addition, Colorado State's MCAA Student Chapter received a 2007 Chapter of Excellence grant from the MCAA National Career Development Committee. About half of the \$3,000 grant is allocated to scholarships.

### CM Student Named Udall Scholar

Caitlin Powell, a construction management major with a business administration minor, and Johanna Hamburger, a political science and economics double major, have been selected as recipients for the prestigious Morris K. Udall Scholarship Program. The Udall Scholarship awards up to \$5,000 to future leaders across a wide spectrum of environmental fields.

"This is very exciting news, as these two students are the first Udall Scholars in the history of Colorado State University," says Heather Esterday, coordinator of Colorado State's Office of Nationally Competitive Scholarship Programs.

Powell, a junior from Minnetonka, Minn., plans to pursue a master of design science in sustainable design. Powell participates in several sustainable and green-building organizations,

including the Rocky Mountain Sustainable Living Fair, and is the president of the Emerging Green Builders of Northern Colorado.



Powell competed on Colorado State's Leadership in Energy and Environmental Design (LEED) student competition team, taking second in the nation, and has passed the LEED professional exam – a feat for seasoned professionals. Powell also works with The National Center for Craftsmanship on "DeConstruct." The project involves dismantling and recycling three homes; it also trains people to become skilled craftsmen while minimizing the amount of waste in landfills.

### CSU Students Present at First Green School Summit

Green schools are healthier learning environments; they also save their school districts, on average, \$47,880 in reduced annual energy costs. The Colorado Green Schools Advocacy Committee envisions that by 2015, all new and remodeled schools in Colorado will be high-performing green schools.

In April, three CSU students participating in CON 576, Sustainable Technology in Built Environments, presented case studies at the first Green School Summit, held in Denver.

Aware that the U.S. Green Building Council - Colorado chapter has identified schools as its top priority for 2008, CM Professor Brian Dunbar had each of his CON 576 students study a green school in Colorado or a neighboring state. Students gathered detailed information about the schools, the green features, project team members, and outcomes. Compiling this information with photos, each student

created a presentation showcasing each school's most unique features. They then presented their case studies to the class and three visiting members of USGBC - Colorado.

Three Colorado State students – Alex Stone (Telluride Mountain School, Telluride, Colo.), Shannon Carlson (Kinard Junior High, Fort Collins, Colo.), and Jamie Saer (Greybull Elementary, Greybull, Wyo.) – were selected to present their case studies at the Green School Summit. CSU alumna Kristi Barnes, '93, a photographer and green-building case studies designer, further refined the case studies for dissemination through the Colorado chapter of the USGBC.

"The students did an excellent job, and Kristi's work really added to the professionalism of the conference and the students' presentations," says Dunbar.

To view the case studies, go to [www.usgbccolorado.org](http://www.usgbccolorado.org).

## Students

# 2008 Student Competition Success

## Associated Schools of Construction (ASC) Regional Competition



*Commercial, First Place*



*Design Build, First Place*

## ASC National Competition



*Mechanical, Second Place*



*LEED, Second Place*

*Ryan Dorsey received Best Presenter award from Kinetics.*

## National Association of Home Builders (NAHB) National Convention

*Residential Construction Management Competition, Fifth Place*

*Team member Meghan Bonich won a BuilderBooks.com Outstanding Student Award.*

## Students Capture Float Award – Again

Just as in 2006, the float that CM students constructed for the 2007 Community Homecoming Family Weekend Parade was a crowd favorite, this time winning the Grand Champion Novelty award for Colorado State University entries. The colorful float, designed to illustrate “the building blocks of our community,” was conceived and constructed by CM students Meghan Bonich, Brandon Ahrenholtz, Matt Matejcek, Pete Grubestic, Eric Grubestic, Stefan Hatfield, John Anest, Brent Haselden, Kevin Harrison, and Bryan Gimball.



The students also benefited from the assistance of Arcon Inc. and CM professors Chuck Smith and Steve Jaouen.

## CM Grads: 100 Percent Placement

- Lowest salary: \$39,900
- Highest salary: \$73,881
- Average salary: \$54,408
- Average salary in Colorado: \$52,205
- Average salary in California: \$65,057
- Number of job offers received: 247
- Positions that most graduates are hired into: project engineer, field engineer, assistant superintendent, assistant estimator

*Information derived from Spring 2008 senior exit surveys, completed by 105 graduates.*

***“It’s important for industry to make connections with students while they’re still in school. Often, students have signed contracts with employers before they even graduate. Thirty-five percent of my seniors have a contract by the time they enter the senior capstone course.”***

*– Ron Holt, CM faculty*

## **New Faculty Member, Mehmet Ozbek**

### **Education**

Ph.D., Civil Engineering, Vecellio Construction Engineering and Management Program, Virginia Tech, 2007

M.S., Civil Engineering, Vecellio Construction Engineering and Management Program, Virginia Tech, 2004

B.S., Civil Engineering, Construction Engineering and Management Track, Middle East Technical University, Ankara, Turkey, 2002

### **Recent Positions**

Post-Doctoral Research Associate, December 2007-August 2008

Graduate Research Assistant, August 2002-December 2007

Estimator, VINSAN Inc., Summer 2001

Field Engineer, VINSAN Inc., Summer 2000 and Summer 1999

### **Leadership and Service**

Vice President, Construction Management Association of America Student Chapter, Virginia Tech, 2006-2007

## **Passionate About Preserving Infrastructures**

**O**n Feb. 6, Mehmet E. Ozbek arrived on campus for a long day of interviews, tours, and Q&A sessions. That same day, a 16-foot-deep sinkhole opened up on Interstate 25. More than 40 feet in diameter, the sinkhole caused closure of the northbound lanes for two days.

The incident clearly illustrated a point Ozbek had been making about his key interest area, the preservation of infrastructures. “Different types of infrastructure systems are not isolated,” Ozbek explains. “The sinkhole on I-25 was a perfect example of this: A burst water main had impacted a major roadway.”

This fall, Ozbek joins Colorado State’s CM faculty as an assistant professor. He is teaching two sections of CON 367, Construction Contracts and Project Administration. “One reason I applied to CSU is that the department has great industry support,” says Ozbek. “That’s important, so students can connect with industry during their education, and so industry can be involved with their future employees.”

Another selling feature for Ozbek was discovering that all faculty members share a clear vision of becoming the best CM program in the nation. “I believe they have the energy and ability to accomplish that,” he says.

He is pleased to see there is strong support for increasing research activity. “Infrastructures all across the U.S. are deteriorating,” says Ozbek. “They were well planned and nicely built many years ago, but they haven’t been looked after and maintained. I’d like to focus my research on preserving infrastructures and addressing these national issues, particularly with respect to transportation infrastructure. We need to come up with tools and systems that will enable different types of infrastructures to work together rather than against one another.”



***“We need to come up with tools and systems that will enable different types of infrastructures to work together rather than against one another.”***

He believes his interest in infrastructures is a good fit with the department’s emphasis in Heavy Construction Management.

Ozbek plans to share his research findings with students, so they can see how research provides practical, real-life applications. He also intends to promote students’ writing and oral presentation skills and integrate graduate-school expectations into his classes, by elevating the learning objectives and instilling critical-thinking skills. He would like students to go beyond understanding the material, to analyzing problems, designing solutions, and drawing conclusions.

Ozbek and his wife, Pinar, moved to Colorado in August. The couple enjoys ballroom dancing, skiing, music, being outdoors, and living in Fort Collins, which they consider to be “a college town and so much more.”

## Glick's Goal: Inspiring Students to Learn

Scott Glick has spent 30 years managing new residential construction, remodels, and land development. When asked why he decided to teach, he says, "I felt I had knowledge I could impart to students."

This fall, as a new assistant professor of construction management, Glick brings his expertise into the classroom. He says his goal is to discover how students learn and what motivates them. He hopes to engage students in their classes, so they will develop strong writing skills and logical thought processes that will lead to quality learning and successful careers.

While Glick sees technology as an asset to the construction process, he also firmly believes students must first understand what people in the field are doing and what each worker brings to the project. "Technology's great, but you can't manage what you don't know," he says.

Green building is one of Glick's passions – particularly construction-site recycling. "I've always tried to reduce waste in the houses I've built," he says. In addition to exploring how students learn, Glick's research interests include life-cycle assessment, emissions impact on projects, and city and regional planning issues regarding construction.

Glick sees construction education evolving to better prepare students to work in an international arena. "Collaboration is necessary," he says, and facilitating good working relationships requires a better understanding of other cultures. He believes the department's partnerships in the Middle East will position the department and the students to play an active role in the globalization of construction management education.



***"I'd like to explore more ways for industry and students to collaborate, so students can benefit from the most current knowledge about the field."***

"It's exciting to be a part of Colorado State's CM program right now," says Glick. "Industry has stepped up and shown that they believe in us. I'd like to explore more ways for industry and students to collaborate, so students can benefit from the most current knowledge about the field."

Glick and his wife, Maggie, both native Coloradans, live on 50 acres in north Fort Collins, where they board cattle. They enjoy watching the wildlife that frequent the area.

## New Faculty Member, Scott Glick

### Education

Ph.D., Interdisciplinary, Education with emphasis in Construction Management, Colorado State University, 2007

M.S., Construction Management with emphasis in Green Building, Colorado State University, 2004

Master of Public Administration, University of Wyoming, 1991

B.S., Accounting and Finance, University of Northern Colorado, 1982

### Recent Positions

Owner, Scott Glick Construction and Development, Sole Proprietorship, 1991-present

Owner, Scott Glick Real Estate, Sole Proprietorship, 1985-present

Adjunct Faculty, Construction Management, Colorado State University, 2006-2008

Instructor, Construction Management, Colorado State University, 2004-2006

Graduate Teaching Assistant, Colorado State University, 2003-2004

### Leadership and Service

Volunteer, Million Solar Roofs Initiative, Northern Colorado Renewable Energy Society, Fort Collins, Colo., 2004-2005

Board of Directors, Legacy Land Trust, Fort Collins, Colo., 1998-2001

Larimer County Planning Commission, 2008-2011

# CM Welcomes New Staff Members

## Wagner-Renner Retires

Sue Wagner-Renner, financial officer in the Department of Construction Management and longtime Colorado State employee, retired in March.

Before coming to the CM department in 1990, Wagner-Renner worked for ten years as a supervisor in the CSU Foundation and a year as office manager at the University's Equine Center. In 1995, she earned her bachelor's degree in business administration from Colorado State.



During her tenure in CM, Wagner-Renner managed the department's finances, personnel, research grants, and travel, and coordinated events. She planned the department's annual Fajita Fest and coordinated three Ram Built Gala fundraising events. She also helped organize trade shows, conferences, scholarship dinners, and alumni activities.

In 2004, Wagner-Renner was cited in the University's faculty-staff newsletter as an Everyday Hero, and in 2006, she received the department's Ram Built Hard Hat Award for her support of construction education. That same year, she also received an Outstanding Achievement Award, given to five state-classified employees each year.

Wagner-Renner remains in Fort Collins with her husband, Ron. She is operations manager for the Associated Schools of Construction and coordinator for the Rocky Mountain Asphalt Conference and Equipment Show.

## Deanne Douglas



If you've called or come into the main CM office recently, you've likely encountered Deanne Douglas. In January, Douglas became the department's new administrative assistant and graduate student liaison. Her responsibilities include providing customer service to students, faculty, and industry. She also assists graduate students through the entire graduate program process. Douglas is a liaison with CM's web designer, to ensure the department's website is kept current. She is pursuing a Master of Education degree at Colorado State.

## Nasser Albeiruti



Nasser Albeiruti spent nearly two years working as an accounting technician for both the School of Education and the School of Social Work at Colorado State. In May, he became the CM department's financial officer. In addition to handling the department's budget, he manages staff payroll, human resources, travel, and other departmental business functions.

Albeiruti earned his bachelor's degree in chemical engineering at Colorado State and, in December, he will complete his master's degree in accounting.

## Kristin Hailpern



Kristin Hailpern, CM's new key adviser, came to the position in June well prepared to advise the department's 1,000 Pre-CM and CM majors. She has two Colorado State degrees: a B.S. in psychology and an M.E. in education and human resources – counseling and career development program. While in graduate school, Hailpern worked as a counselor at CSU's Career Center and as an assistant adviser for the biology department.

## Anna Fontana



After serving as interim coordinator of the Phelps Placement Office for nearly a year, Anna Fontana was permanently hired into the position last November.

Fontana, a 1997 CM graduate, worked for DPR Construction in Redwood City, Calif., for nine years. In 2006, she completed her master's degree in civil and environmental engineering in construction management at Stanford University, then relocated to Fort Collins.

Fontana teaches a preinternship seminar each semester and also helps students prepare résumés and hone their interviewing skills. Each year, she assists nearly 250 CM students in finding placement in their three- or six-month internships required for graduation. She also coordinates on-campus recruiting and is the lead for the department's Career Fair.

## Khristy Preston



Khristy Preston, associate coordinator of the Phelps Placement Office, joined the CM family last November.

A CSU graduate in speech communication, Preston's career experience includes several years as a human resource specialist in the University's employment office. Previously, she worked for the AFL-CIO, placing students primarily in construction-related apprenticeships throughout the United States.

Preston's main responsibilities include senior recruiting, pre-employment training, recruiting and outreach marketing, and helping to coordinate the CM Career Fair.



# First Egyptian Exchange Students Complete CM Master's Program at CSU

Last year, Colorado State University established an exchange program that provides scholarships for up to four Egyptian students annually to come to Colorado State and earn their master's degrees in construction management. The program is the outgrowth of a Memorandum of Understanding established between CSU and the Arab Academy of Science and Technology.

The first Egyptian students, Michael Azer and Meena Nageeb, arrived a year ago. Both students earned their bachelor's degrees in construction engineering from the American University in Cairo (AUC). Even though they had some familiarity with life in the United States prior to coming to CSU, they say that living here has required making some adjustments.

"The culture in Egypt is to live with your parents until you marry. So, living with my parents, I was never concerned with cooking and laundry," says Azer. "But in the U.S., I had to learn to do these things for myself."

Says Nageeb, "I went to school at the American International School in Kuwait and did my undergraduate work at the American University in Cairo. Furthermore, I had many friends from the United States and other countries. So, to some extent, I was familiar with life in the United States, which made my adjustment here somewhat easier. Even so, it was still a very interesting and sometimes challenging experience – especially adjusting to very different weather conditions, a different culture, and living so far away from home, family, and friends."

During the year, Azer and Nageeb served as GTAs for an upper-division estimating course. They have completed their master's work and plan to pursue doctoral degrees.

Azer says his career goal is to do research and work in academia. "I was accepted into CSU's mechanical



*Michael Azer (left) and Meena Nageeb are the first Egyptian students to complete a master's degree program in construction management at CSU, in cooperation with the American University in Cairo, Egypt.*

engineering program, where I'll pursue my Ph.D., with a focus on the interface between construction and mechanical engineering. I'll be completing my coursework online, while working as a BIM consultant for Consolidated Contractors Company on projects in Egypt and the West Bank," he says. "Earning my master's at CSU gave me the knowledge and experience to be granted this job at such a reputable company and also provided me the opportunity to further my studies."

"I believe that having acquired a bachelor's degree in construction engineering and a master's in construction management from CSU will help me achieve my career goals," says Nageeb. He plans to pursue a Ph.D. degree in construction engineering and management.

## Students Help Build Home for Bosnian Family

Students in the CM department and in Colorado State's Habitat for Humanity Student Chapter helped make a dream come true for a refugee family from Bosnia. Last summer, the students, in cooperation with Fort Collins Habitat for Humanity and CSU interior design and landscape design students, built a home for Davor and Jasmina Strick and their 9-year-old daughter, Aida.

The Stricks came to the U.S. in 1996, after fleeing their war-torn country. They work in the community and have obtained their U.S. citizenship.

The Habitat team worked to complete the home in a record three months. Recognized for its beauty, energy efficiency, and tasteful design and landscaping, the home was then entered into the Parade of Homes, sponsored by the Home Builder's Association of Northern Colorado. The interior design students staged the home using furniture they collected from the Habitat Home Supply in Fort Collins.

The three-bedroom, two-bath home was on display for two weekends in mid-September. The family moved into their new home after the Parade of Homes ended.

## Fostering Partnerships in Egypt

In May, Peter Dorhout, Vice Provost for Graduate Research, and College of Applied Human Sciences Dean April Mason traveled to Egypt with CM Department Head Mostafa Khattab and faculty members Angela Guggemos and Brad Johnson. With some changes in leadership at Helwan University, Colorado State faculty and administrators visited Egypt to establish new partnerships and reconnect with previous partners.

Over the summer, Johnson and Guggemos began developing a short, study-abroad course for CSU students. "Through this course, students will learn about international project management with a focus on the Egyptian culture and how that impacts the construction management process," says Johnson.

## **University-Industry Collaboration Makes History**

**“The industry leaders who have supported this center are investing in a well-educated, highly professional workforce that will be uniquely prepared to hit the ground running when they graduate, entering the professional world with the background to be successful and to contribute to the success of the construction industry overall.”**

– Larry Edward Penley, CSU President



*On April 24, industry and University leaders gathered to celebrate the unveiling of plans for the new Preconstruction Center project. The donor-recognition event took place in the area that will become the Saunders Construction Inc. Lecture Hall.*

When CM Professor Ron Holt gives a tour of the Industrial Sciences Building, built in 1883, he is clearly proud of the stature Colorado State’s CM program has achieved in its 61-year history. “The department is really changing, and when industry saw these changes – enrollment controls, new faculty coming on board, the vision to be the highest-quality program in the nation – they really wanted to be a part of it,” says Holt.

So much so, that industry members stepped forward to contribute the entire \$4.1 million in cash and in-kind to renovate the 125-year-old Industrial Sciences Building to meet present and future educational needs. Donors committed to realize a shared vision: the creation of a premier educational environment where students will learn and practice in a setting that mirrors today’s construction firms.

In April, the University celebrated and thanked the sponsor companies and unveiled plans for the project – a vision that originated with former department head Larry Grosse. Grosse advocated for the project to be a collaborative venture from the beginning, and this vision has continued under current department head, Mostafa Khattab.

Haselden Construction made the lead contribution to the renovation. Company President Ed Haselden led the effort to engage other industry leaders in the project. “We couldn’t have achieved this fundraising goal without Ed Haselden’s support, passion, and drive,” says Khattab.

Haselden views the project as a winning opportunity for students, higher education, and the construction industry. “We’re creating a great environment for students to learn, and we’re helping to steer the development

of the curriculum, so that students are learning the preconstruction process rather than just estimating, scheduling, and planning,” he says.

The renovation will feature the Haselden Construction Preconstruction Laboratory, an area consisting of both classroom space and fully equipped modular work units where students will form their own “companies.” These capstone experiences will prepare students to be industry-ready by the time they graduate.

April Mason, dean of the College of Applied Human Sciences, says the renovated building – recently renamed the Preconstruction Center – will enable students to integrate multiple facets, including concept, design, estimating, project management, marketing, and presentation. “The laboratory, classrooms, lecture hall, common areas, and technology lab on the second floor will all support this model,” Mason adds.

The project also supports the University’s green initiatives, using as many environmentally sustainable products and methods as possible. The building will retain much of its historic integrity, including the Industrial Sciences Building name that is set in relief on the building’s façade. New signage outside the building will identify it as the “Preconstruction Center.”

Demolition and construction began in August. Plans call for scheduling classes in the building beginning Fall 2009.

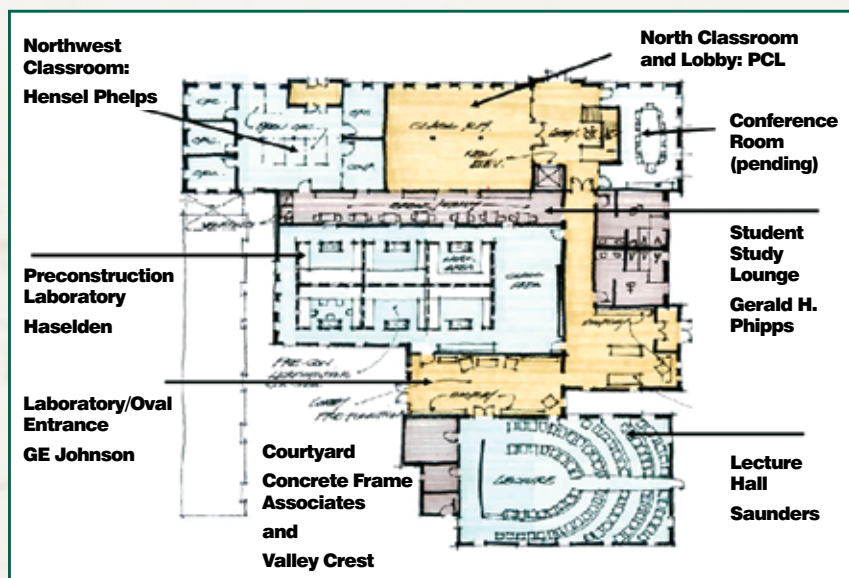
“Students in this program are very fortunate to have such involved industry members investing in our education through the renovation of these facilities,” says John Anest, president of the student CM Board of Directors. “Students are increasingly more involved in clubs, competitions, and projects, and these additional classes and work areas will guide us to become the professionals the industry is looking for.”

## Industry-Sponsored Areas in the New Preconstruction Center

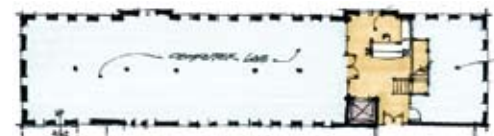
The CM department, College of Applied Human Sciences, and Colorado State University wish to thank the following donors for their enthusiastic support of the Preconstruction Center:

- Haselden Preconstruction Laboratory: Haselden Construction
- Lecture Hall: Saunders Construction, Inc.
- North Classroom and Lobby: PCL Construction Services, Inc.
- Northwest Classroom and some of the new technology in the center: Hensel Phelps Construction Co.
- Technology Laboratory, mechanical contractors: Mechanical Contractors Association, U.S. Engineering, Trautman & Shreve, Murphy Company, Braconier Plumbing & Heating; electrical contractors: Intermountain Electric, Dynalectric Colorado, Sturgeon Electric
- Preconstruction Center Lobby: GE Johnson Construction Co.
- Student Study Lounge: Gerald H. Phipps Construction Companies
- Courtyard: Concrete Frame Associates in collaboration with Valley Crest Companies

## CSU Preconstruction Center



## Second Floor



- Technology Lab**
- Mechanical Contractors Association
  - U.S. Engineering
  - Trautman & Shreve
  - Murphy Company
  - Braconier Plumbing & Heating
  - Intermountain Electric
  - Dynalectric Colorado
  - Sturgeon Electric

# CM Celebrates Lead Contributors to Heavy CM Endowed Chair

## Scholarship Update

Forty-four scholarships totaling \$76,294 were awarded to CM students for the 2008-2009 academic year. If you would like to contribute to existing CM scholarship funds, or if you would like to establish a new scholarship, please contact Office of Development, College of Applied Human Sciences, 1501 Campus Delivery, Fort Collins, CO 80523-1501. You also may contact Joan Trussell at (970) 491-1938 or Joan.Trussell@colostate.edu.

## Two New Scholarships Established

The **Beavers Charitable Trust** has donated \$25,000 to the Construction Management program to fund the Beavers Heavy Construction Scholarship. The award is made annually to a qualified student(s), with preference given to an upper-class or graduate student majoring in construction management or construction engineering studies who has a professional goal of achieving a career in the heavy construction industry. The recipient also must demonstrate financial need. The endowment is intended to appeal to individuals and organizations interested in advancing the education of students pursuing careers in the heavy construction industry.

The **Colorado Asphalt Pavement Association** (CAPA) contributed \$3,000 to establish an annual scholarship, which CAPA will fund each year. The scholarship is awarded to an upper-division undergraduate student or students who demonstrate interest in asphalt technology and/or the road construction industry. Two \$1,500 scholarships were awarded for the 2008-2009 academic year.

In April, industry members gathered on campus to recognize the generosity of lead contributors to the Heavy Construction Management Endowed Chair, a permanent faculty position in the Department of Construction Management.

The first phase of the two-phase plan is to eclipse the \$1.5 million mark, with the longer-term goal of reaching a \$3 million endowment. A reception highlighted two of the lead donors, Colorado Contractors Association (CCA) of Denver, and Connell Resources of Fort Collins; both completed \$250,000 pledges. Other milestone contributors also were recognized.

“The Construction Management program at Colorado State University is truly world class,” said CCA executive director, Tony Milo. “I encourage all CCA members looking for good employees to interview CSU’s fine pool of graduates and strongly consider supporting the program with monetary contributions. The strength of the CM program will foster the continued growth and health of the state’s heavy/highway/utility industry.”

“We’re very close to crossing the finish line in the first phase,” said Mostafa Khattab, department head. “Industry members are supporting this initiative through their contributions, as well as their personal and professional

commitments. This is a dedicated group and will most certainly see this project through.”

Recognition also was given to milestone donors: Rocky Mountain Cement Council, Asphalt Paving Co., LaFarge, Premier Paving, United Companies, and Coulson Excavating.

Since initiating the Heavy CM Program in 2003, the department has hired Dr. Scott Shuler to develop the curriculum and a research laboratory. Shuler has developed three courses that provide students with a solid education in roadway planning and development. The new Colorado Pavement Association Asphalt Laboratory is supporting heavy/highway lectures as well as sponsored research by graduate students.

When the first-phase funds are secured, the department will hire a professor and supplement the position.

The endowment will provide a permanent emphasis in Heavy Construction Management. In addition, the named chair-holder will:

- serve as a liaison between the industry and the CM department;
- inspire and lead students to choose heavy construction as a career choice; and
- build a partnership with the College of Engineering.



At a reception in April, the University recognized two lead donors, the Colorado Contractors Association and Connell Resources of Fort Collins. Each donated \$250,000 to establish a chair in heavy construction management.

# CM Program Advances International Partnerships

Faculty in Colorado State's CM department are using teaching and an ever-widening network of international partnerships to help relieve the devastating effects of unemployment and poverty in the Middle East. Unemployment in the West Bank and Gaza Strip is more than 28 percent. Furthermore, 58 percent of Palestinians live below income poverty lines, and of those, 30 percent live in extreme poverty. Unemployment of 16- to 25-year-olds has shredded the social and economic fabric of their society. Without jobs, young people often don't have the means to marry, obtain housing, or start a family.

Last fall, CM received a \$166,000 training contract from the Education For Employment Foundation. EFE's goal is to give youth with limited prospects hope and a stake in their own and their country's future, by providing them with cutting-edge professional training that leads directly to job opportunities.

Working with the research team, principal investigator Angela Guggemos coordinated the curriculum development for a Training of Trainers (ToT) workshop. In November, team members Mostafa Khattab, Brad Johnson, and Ron Holt traveled with workshop coordinator Becky Bell to Jordan to conduct the workshop. The workshop prepared trainers to teach unemployed engineering graduates practical and application-oriented construction management skills as part of an eight-week training program.

In the spring, the CSU-trained instructors trained the program's first participants – unemployed engineering graduates who live in the West Bank and who underwent language training before being accepted.

In July, a graduation program took place for the 17 students who graduated from the program. The event included a "Grad Fair" to showcase the graduates to construction/engineering firms in

the West Bank to inspire hiring and future job commitments from the private sector, academia, and NGOs. The graduates were guaranteed jobs with Consolidated Contractors Company (CCC) or its ally companies or with local construction firms in the West Bank. Over the next three years, CCC has committed to hire or place 45 graduates of the program outside Palestine. EFE aims to double or triple this number of job commitments in the West Bank's private sector.

"From my decades in the construction industry, I know firsthand the benefits of a construction project manager who keeps a project on time and on budget – not to mention keeping the construction site safe," says EFE founder and CEO Ronald Bruder. "With a construction boom in the West Bank and in the Gulf, we are hopeful we can link our highly trained graduates with regional employment opportunities available in this pivotal field. In this way, our program will reduce unemployment among Palestinian engineering graduates and also contribute to economic growth and physical safety in the Middle East and North Africa region."

The impetus for Colorado State's involvement in this unique, international partnership evolved from a USAID grant the CM department received in 2004 to develop a multi-discipline, multicultural construction education program with colleagues at Helwan University in Egypt. Since then, the department has developed several other Egyptian partnerships, which have led to Memoranda of Understanding and exchange programs between Colorado State University and higher education institutions in Egypt.

"One of the responsibilities of higher education is to influence our culture and our students and other cultures as well, by lending a hand," says CM Department Head Mostafa Khattab. "We are really solving or attempting to solve real-life problems in the Middle East."

## Sponsored Research

### Strengthening Partnerships in Egypt: Building on Previous Successes

Principal Investigator: Brad Johnson  
Sponsor: USAID  
Amount: \$25,486, completed June 2008

### Manual for Emulsion-Based Chip Seals for Pavement Preservation

Principal Investigator: Scott Shuler  
Sponsor: National Academy of Sciences  
Amount: \$300,000, concludes February 2009

### Economic Impacts of the Construction Industry on the State of Colorado

Principal Investigator: Mary Nobe  
Sponsor: Mechanical Contractors Association of America  
Amount: \$14,012, November 2007-April 2008

### Warm Mix Asphalt Development, Construction, and Performance

Principal Investigator: Scott Shuler  
Sponsor: Lafarge North America  
Amount: \$12,500, September 2007-September 2010

### Crack Sealant Performance in Colorado

Principal Investigator: Scott Shuler  
Sponsor: Colorado Department of Transportation  
Amount: \$25,000, September 2007-September 2010

### Training of Trainers Workshop for Engineers in the Middle East

Principal Investigator: Angela Guggemos  
Sponsor: Education For Employment Foundation  
Amount: \$166,000, July 2007-August 2009

### Performance of Preventive Maintenance Treatments for Asphalt Pavements

Principal Investigator: Scott Shuler  
Sponsor: Colorado Department of Transportation  
Amount: \$150,000, September 2004-September 2009

### Continuing Education

CM's on- and off-campus certificate and degree programs are designed for professionals seeking continuing education in various construction management fields. Courses are taught by CSU faculty, with construction industry professionals serving as guest lecturers.

#### Fort Collins Campus

##### **NEW! Green Homes Certificate Program**, Sept. 15-Dec. 8, 2008

13 weekly sessions cover all aspects of sustainable home building and remodeling and the major green-building rating systems: LEED-Homes, Built Green, and Energy-Star.

##### **Green Building Certificate Program**, begins March 2009

For more information, visit: [www.ibe.colostate.edu/programs](http://www.ibe.colostate.edu/programs), or call (970) 491-3260.

#### CSU Denver Center

##### **Green Building Certificate Program**, Sept. 9-Dec. 2, 2008

##### **NEW! Green Homes Certificate Program**, begins March 2009

13 weekly sessions cover all aspects of sustainable home building and remodeling and the major green-building rating systems: LEED-Homes, Built Green, and Energy-Star.

##### **Construction Management Certificate Program**, Sept. 10, 2008-Feb. 25, 2009

##### **Advanced Estimating Certificate Program**, begins Spring 2009

##### **Financial Management for Constructors Certificate Program**, begins Spring 2009

For more information, visit: [www.learn.colostate.edu/certificates](http://www.learn.colostate.edu/certificates), or call toll-free (877) 491-4336.

#### Off-Campus Locations

##### **Sustainable Design and Construction Short Course – Two Locations**

**NEW!** Monteverde, Costa Rica, Jan. 5-15, 2009

Maho Bay, U.S. Virgin Islands, May 20-30, 2009

For more information, visit: [www.ibe.colostate.edu/programs](http://www.ibe.colostate.edu/programs), or call (970) 491-5041.

### Class Notes

After working for various companies in New York City and the Middle East, **Austin Turner, '02**, was recently promoted to Construction Manager for Emerging Markets of Burberry Ltd. Now based out of London, Turner is heading up the department in charge of all new construction. He writes: "In 2008 we are planning on opening approximately 17 new stores. My areas to manage will include Russia, the Middle East, Eastern Europe, and Africa."

**Chance Barnes, '90**, lives in Orlando, Fla., and is the first LEED AP for PCL - Orlando. PCL's U.S. operations are based in Denver. His wife, Kristi, a 1993 graduate of CSU's interior design program, is a photographer and green-building case studies designer.

PCL recently hired **Sarah Siegel, '04**, to be the company's Manager of Sustainable Construction.

#### We love hearing from you!

Let us know of your career advancements, personal achievements, or any other news you'd like to share. Send your news via e-mail, mail, or phone to:

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### Alumni News

#### First IBE Reunion Well Attended

A large contingent of CSU students, faculty and alumni attended the 6th annual GreenBuild International Conference held in Chicago last November. More than 24,000 architects, builders, engineers, designers, product manufacturers, and other built environment professionals attended. During the conference, the Department of Construction Management's Institute for the Built Environment (IBE) hosted a reunion for its former students. Thirty-four students and alumni attended, including many graduates of the IBE's Sustainable Design and Construction course in Maho Bay.

#### Calling All Alumni and Companies

The Department of Construction Management wants you on our Wall of Honor! We would like to recognize the professional accomplishments of our alumni by posting your business card under glass and frame in the main hallway of the Guggenheim Building.

For more information on how you can participate, visit [www.cm.cahs.colostate.edu](http://www.cm.cahs.colostate.edu), and click on the link to "Wall of Honor."

#### IBE Aids in LEED-Certification Projects

Graduate students and staff in the Department of Construction Management's Institute for the Built Environment have participated in several projects that were submitted for LEED-certification review:

- Poudre School District elementary school, Timnath, Colo. Planners hope this will be the first project in the country to be certified under the new LEED for Schools Rating System.
- Burr Oak Office Building, Fort Collins, Colo. Seeking LEED-silver certification.
- Sundance Professional Centre, Loveland, Colo. First office building in Northern Colorado to earn LEED-gold certification.

## A Letter from Emeritus Faculty Jim Young

In 1962, James W. Young became the first full-time construction education professor hired specifically from industry to teach in CSU's Industrial-Construction Management program. In his 19 years at Colorado State, Young significantly increased program-industry liaisons and initiated curriculum changes to address the needs of industry.

Now living in Wisconsin, Young, a founding member of the Associated Schools of Construction, remains connected with the school where he spent most of his career. Recently, Young sent CM Department Head Mostafa Khattab an e-mail expressing his support of the direction the program is headed today:

*I recently read the Professional Advisory Development Board report from last fall, and I'd like to congratulate you, the faculty, and Dean Mason for prevailing on the need to cap student enrollment. I was amazed to learn that 24 percent of CSU's incoming students are CM majors! It's great to be recognized as a program of stature, but maintaining that kind of reputation requires appropriate measures to meet the demand.*

*Once, in my very early years in the program, I had a conference with a potential freshman and his father. After I explained the goals of construction management, the father asked, "Is this a program of stature?" Wanting to be honest, I said, "No, not if you compare the ICM program to CSU's civil engineering program." The father then redirected his son to civil engineering.*

*I never forgot that conversation, and it became my goal for CM education to become recognized as a program of stature at Colorado State. It appears to me you have accomplished that goal.*

*Keep up the good work! The exciting activities and the program's direction almost make me wish I could back up about 40 years, so I could still be a part of it.*

*Jim Young*



## You Can Help CM Move Ahead on the Road to Excellence

This year, the CM department initiated the Road to Excellence Fund. The fund supports faculty and staff development through travel, mini-grants, and other opportunities that will help faculty and staff excel. Students benefit, too. A portion of the fund, initiated by recent CM graduates, provides scholarships to students who demonstrate strong leadership skills.

Your support will help the Department of Construction Management reach its goal of being the highest-quality construction education program in the country.

Enclosed is my/our check for a gift of \$ \_\_\_\_\_ (made payable to **CSU Foundation**).

Name \_\_\_\_\_

Gift is from:

me    my spouse and me    my partner and me.

Spouse's/Partner's Full Name \_\_\_\_\_

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**Please apply this gift to:**

Road to Excellence Fund – faculty and staff development (#60993)

Road to Excellence Fund – scholarships (#60993)

Heavy Construction Management Endowed Chair (#54645)

Department of Construction Management (#11593)

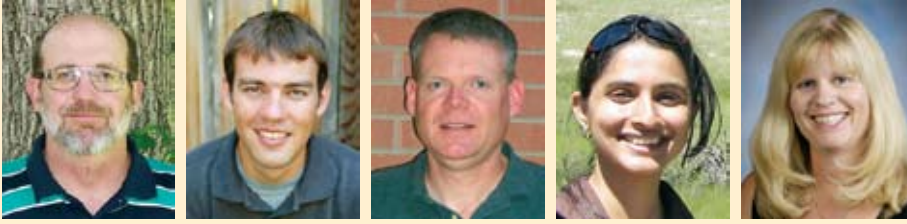
James Parnell Student Professional Development (#52645)

Other (college, department, or fund name): \_\_\_\_\_

Please return this form with your gift to:

CSU Foundation, P.O. Box 1870, Fort Collins, CO 80522-1870, or make your gift online at [www.giving.colostate.edu](http://www.giving.colostate.edu).

# Recognizing Excellence



Recent award recipients are (from left) Mike O'Reilly, Jon Elliott, Dale Porter, Girija Inguva, and Becky Bell.

Faculty and staff members, teaching assistants, mentors, and even other students can make a difference in the life of a construction management student. The department tips its hat to the following individuals who received awards within the last year:

## 2007 and 2008 Faculty of the Year Award

Mike O'Reilly

## 2008 Choice Graduate Teaching Assistant Awards

Jon Elliott

Dale Porter

Girija Inguva

## 2008 College of Applied Human Sciences Superior Service Award

Becky Bell

## First-Ever American Council of Construction Education Award

Jon Elliott, a graduate teaching assistant in CM, is the first recipient of the Dupree Construction Education Fund Scholarship sponsored by the American Council of Construction Education.

The award is made to a practitioner who is enrolled in an ACCE-accredited postgraduate program and who intends to enter into a career as a faculty member in an ACCE-accredited construction management program. Elliott received a \$5,000 scholarship.

## Display Your Company's Image Daily to Top-Notch CM Students

Create a 3' x 5' masonite display about your company, and we'll mount it in the CM computer laboratory, where the country's top-ranked construction management students will see it daily.

Use the panel to display your company's name, logo, and information and to show photos of your projects.

The cost to display a company panel is \$3,500 for a five-year period. Proceeds are used to improve the computer facilities for our students.

For more information, contact Mostafa Khattab at (970) 491-6808 or [mostafa.khattab@colostate.edu](mailto:mostafa.khattab@colostate.edu).