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BUILDING A BETTER WORLD

Colorado Engineers Week Celebration February 21-22, 2008



"Engineering for the Future" 2-Day Education Event & 2008 Annual Dinner and Ceremony Doubletree Hotel Denver, CO

**National Co-Chairs: Chinese Institute of Engineers (CIE),
USA and IBM Corporation**

Brought to you by:



**Professional Engineers
of Colorado**

Professional Engineers of Colorado
3030 W. 81st Avenue
Westminster, CO 80031
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"Engineering for the Future" 2-Day Education Event

Schedule of Events

Thursday, February 21, 2008



Time

7:45 - 8:15 a.m. Registration & Check-In

8:15 - 8:45 a.m. Annual Meeting

8:45 - 9:00 a.m. Break

9:00 - 12:00 p.m. **"Supply & Demand of Engineers: Why is there a Shortage and What Can We Do to Meet the Demand? Why are many graduating engineers going into other fields? Salary? Liability? Opportunity?"**
Speakers: Representatives from CSU, CU, School of Mines College of Engineering

12:00 - 2:00 p.m. **Lunch with NSPE Vice President: Bradley F. Aldrich, P.E., F.NSPE**

2:00 - 2:30 p.m. Break

2:30 - 4:00 p.m. **"State Licensure Board Report: Rule Changes, Continuing Education, Licensure, Bachelors + 30 Hours: How does this affect the practicing Professional Engineer in Colorado?"**
Speaker: Charles H. Adams, State Board of Licensure for Professional Engineers, Program Director & Billy Harris, P.E.

4:00 - 4:15 p.m. Break

4:15 - 5:00 p.m. **Legislative Issues 2008 - What's Happening?"**
Speakers: Senator Abel Tapia, P.E. & Representative Amy Stephens

Obligation of an Engineer Pledge

*I am an Engineer. In my profession, I take deep pride.
To it I owe solemn obligations.*

Since the stone age, human progress has been spurred by the engineering genius. Engineers have made us able Nature's vast resources of materials and energy for mankind's benefit. Engineers have vitalized and turned to practical use of the principles of science and the means of technology. Were it not for this heritage of accumulated experience, my efforts would be feeble.

As an Engineer, I pledge to practice integrity and fair dealing, tolerance and respect and to uphold devotion to the standards and the dignity of my profession, conscious always that my skill carried with it the obligation to serve humanity by making the best use of Earth's precious wealth.

As an Engineer, in humility and with the need for Divine Guidance, I shall participate in none but the honest enterprises. When needed, my skill and knowledge shall be given without reservation for the public good. In the performance of duty and in fidelity to my profession, I shall give the utmost.

Order of the Engineer Ceremony History

Out of tragedy was born a symbol of engineering recognition, achievement and the reminder that the potential for disaster lurks when incompetence is substituted for excellence.

In the United States in 1970, "The Order of the Engineer," was inspired from the, "Ritual of the Calling of the Engineer," long established in Canada.

The symbol for recognition and excellence of profession in the United States is the stainless steel ring worn on the little finger of the working hand, which was patterned after the Canadian wrought iron ring.

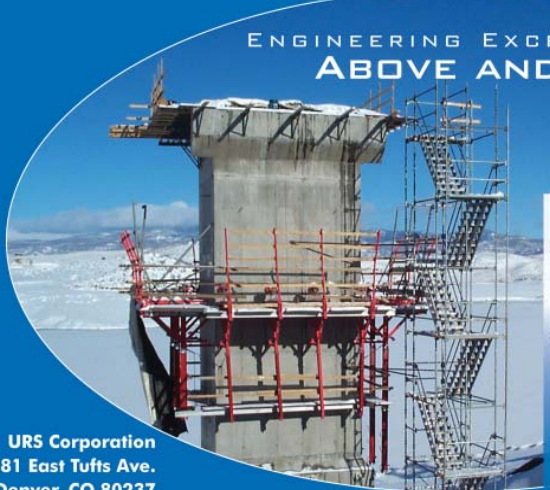
Both rings are recognizable by professional and laymen alike as the symbol of an engineer dedicated to his profession. In Canada the symbol of the iron ring was originally made from the wrought iron beams from the world's largest single cantilever span that crossed the St. Lawrence at Quebec City.

The Quebec Bridge plunged into the St. Lawrence River at Quebec City on August 29, 1907, killing 76 workers. By deviating from accepted procedures and saving a few steps, the Phoenix Bridge Company saved none, but under-calculated the weight of the bridge, and at a time of conflicting theories of lattice design and strength, key members were underdesigned.

The Canadian iron ring is a symbolic link to both achievement and the potential to disaster. Those who wear the iron ring (Canada) and the stainless steel ring (United States) do so in an increasingly litigious and supposedly cost-conscious world, where it is wise to remember that the way in which design responsibility was assigned and paid for was one of the underlying causes of the Quebec Bridge collapse.



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2008 Upcoming Events

Please visit www.pec.org for more details

***Bridge Building Contest - Saturday, February 23, 2008**
Denver Federal Center, Lakewood, CO

*MATHCOUNTS Competitions:

Boulder - Saturday, February 23rd, University of Colorado at Boulder

Jefferson - Friday, February 1st, Colorado School of Mines, Golden

Metro - Saturday, February 9th, University of Denver

North Metro - Saturday, February 23rd, Rocky Top Middle School, Thornton

Northern - Saturday, February 16th, University of Northern Colorado, Greeley

Pikes Peak - Saturday, February 9th, Colorado College Colorado Springs

Southern - Saturday, February 23rd, Colorado State University at Pueblo

Western Slope - Saturday, February 9th, Mesa State College Grand Junction

State - Saturday, March 8th, Colorado School of Mines, Golden

National - Friday, May 9th, Marriott Denver Tech Center

***Chapter Events** - Please see www.pec.org for more information

9.



Friday, February 22, 2008

Time

7:15 - 8:00 a.m. Registration & Check-In

8:00 - 9:15 a.m. **"Intergovernmental Panel Fourth Assessment Report - A Discussion of Anthropogenic Greenhouse Gas & Global Warming"**

Invited speaker: TBA

9:15 - 9:30 a.m. Break

9:30 - 11:00 a.m. **"Governor Ritter's Colorado Climate Action Plan: A Strategy to Address Global Warming"**

Speaker: Heidi VanGenderen, Sr. Advisor on Climate Change & Energy, Office of the Governor, Denver CO

11:00 - 12:00 p.m. **"The Science of Climate Change; is the Debate Over?"**

Speaker: Dr. William Gray, Emeritus Professor of Atmospheric Science, Colorado State University, Fort Collins, CO

12:00 - 1:00 p.m. **Lunch and Keynote Speaker:** William R. Schroeder, Jr., Manager of Public Affairs, Intermountain Rural Electric Association

1:00 - 1:30 p.m. Break

1:30 - 2:30 p.m. **"Solar Energy, Renewable Energy, and a Primer on CO₂ and Climate Change"**

Speaker: Dr. Howard Hayden, Emeritus Professor, University of Connecticut

2:30 - 4:00 p.m. **"Climate Change and Free Market Considerations"**

Speaker: James Taylor, Senior Fellow for Environmental Policy, The Heartland Institute, Chicago, IL

4:00 - 5:00 p.m. Q&A with speakers



2.

**Presidential Proclamation
for National Engineers Week
February 17-23, 2008**



I send greetings to those observing National Engineers Week.

By harnessing the power of technology and science, engineers help transform and enhance the quality of life for people around the globe. Their work spurs innovation in many important areas, such as manufacturing, defense, agriculture, and aviation. For nearly six decades, National Engineers Week has recognized engineers' contributions to society and encouraged young people to learn more about this exciting field.

For generations, Americans have been at the forefront of innovation. To continue our Nation's progress, maintain America's competitiveness, and carry on our legacy of innovation, our next generation of leaders must be well-versed in science, math, and other critical subjects. My administration founded the American Competitiveness Initiative, which is working to improve education in these areas, investing in research and development, and encouraging technological advances. Through our combined efforts, we can motivate young Americans to become the next generation of pioneers in engineering.

I appreciate America's engineers for working to develop the technology that makes our lives better. Your efforts are helping to build a more hopeful future for people everywhere.

Laura and I send our best wishes.



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2008 Engineers Week Dinner Program February 22, 2008

National Co-Chairs: Chinese Institute of Engineers (CIE), USA and IBM Corporation

*Master of Ceremonies: Nate Dowden, PEC Vice President

Reception: 6:00 - 6:30 p.m.

Order of the Engineer Induction: 6:00 - 6:30 p.m.

Dinner: 6:30 - 7:45 p.m.

Welcome and Introductions: 7:45 - 8:00 p.m.

Order of the Engineer Presentation: 8:00 - 8:15 p.m.

Program: 8:15 - 9:15 p.m.

Topic: "Envisioning the Future of U.S.
Educational Institutions in a Global Frontier"



Speaker/Biography:

Chancellor G.P. "Bud" Peterson, University of Colorado at Boulder

G.P. "Bud" Peterson was appointed Chancellor of the University of Colorado at Boulder beginning July 15, 2006. Prior to assuming this role, he served six years as provost at Rensselaer Polytechnic Institute in Troy, New York. As Chancellor, Dr. Peterson is the chief academic and administrative officer of the CU-Boulder campus. Throughout his career, he has played an active role in helping to establish the national education and research agendas, serving on numerous industry, government and academic task forces and committees.

Born in San Francisco and raised in Prairie Village, Kansas, a suburb of Kansas City, Dr. Peterson attended Kansas State University and earned a Bachelor of Science degree in Mechanical Engineering and a second Bachelor's degree in Mathematics. In 1980 he received a Master of Science in Engineering.

In 1985 he received a Doctorate in Mechanical Engineering from Texas A&M University. He served as a Visiting Research Scientist at the NASA Johnson Space Center before returning to Texas A&M as a faculty member in the Mechanical Engineering Department, where he conducted research and taught courses in thermodynamics and heat transfer. He was later named the Halliburton Professor of Mechanical Engineering and the College of Engineering's Tenneco Professor. While at Texas A&M, he held leadership positions as Head of the Mechanical Engineering Department, Executive Associate Dean of the College of Engineering, and Associate Vice Chancellor for the Texas A&M University System. In 1993-94 he served as Program Director for the Thermal Transport and Thermal Processing Division of the National Science Foundation.

A Fellow of both the American Society of Mechanical Engineers and the American Institute of Aeronautics and Astronautics, Dr. Peterson is the author or co-author of 12 books or book chapters, 160 refereed journal articles, more than 150 conference publications and holds eight patents. He is a member of several professional organizations and the recipient of numerous national and international honors and awards for both teaching and research. Dr. Peterson and his wife Val have four grown children.

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