



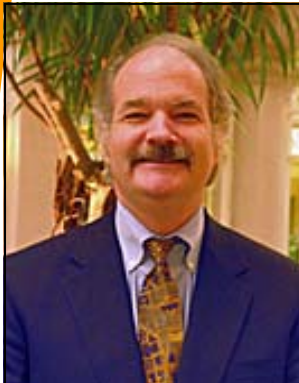
Pikes Peak Chapter ASHRAE Annual Technical Seminar Friday April 17, 2009 Registration 8 AM

\$50 Members \$75 Non-members

Register on-line at www.pikespeakashrae.net
Up to 6 PDH credit certificates will be available

ARE HIGH PERFORMANCE BUILDINGS REALLY PERFORMING?

It is possible today, at an incremental construction cost of 2-10%, to create buildings which operate at 25, 50, and even 75% less energy than Standard 90.1-2004. A few high profile buildings touted to be designed as low-energy have been extensively metered and studied. This presentation provides an overview of the process, performance, technologies, and lessons learned for these recent 'high performance' buildings which range in measured energy savings of 25-70% over Standard 90.1 and opportunities for even greater savings in the future—achieving cost-effective net-zero energy commercial buildings by 2025.



DRURY B. CRAWLEY
Team Leader,
Commercial Buildings
U S Department of Energy
Washington, DC

Mr. Crawley leads the U.S. Department of Energy's Building Technologies Program team working to achieve cost-effective net-zero energy commercial buildings by 2025. He is also responsible for managing the DOE's building energy software tools development activities including EnergyPlus (winner of an R&D 100 Award in 2003), Energy Design Plugin for Google SketchUp, Energy-10, DOE-2, and SPARK, among others.

With more than 30 years of experience in buildings energy efficiency, renewable energy, and sustainability, he has worked in government research and standards development organizations, as well as building design and consulting companies. A registered architect, he is currently completing his PhD in Mechanical Engineering on the topic of building simulation as a policy tool at the University of Strathclyde in Glasgow, Scotland.

JOEL ASRAEL
Manager of the
Commercial Buildings
Program
Governor's Energy Office
State of Colorado

Joel Asrael is the Manager of the Commercial Buildings program at the Governor's Energy Office. He has a masters in Mechanical Engineering, is a Certified Energy Manager, is LEED Accredited, and has over 10 years experience with Performance Contracting. Joel's responsibilities at the GEO include working with State agencies, Municipalities, Counties, K-12 schools and Higher Education institutions across the state to engage in successful Performance Contracts.

Held at School District 11 FOTC Facility
5240 Geiger Blvd.
Continental Breakfast & Lunch will be served