

Seminar Series



Join us the second Thursday of every month for a series of “brown bag” seminars, sponsored by the National Renewable Energy Laboratory and the U.S. Department of Energy (DOE). Each seminar is held at NREL’s Washington, D.C., office or in Golden, Colorado. Topics focus on new and innovative renewable energy and energy analysis strategies, models, and technologies.



Web Access and Call-In Information

Log-In Info

URL for log-in:

<https://www.mymeetings.com/nc/join/>

Conference Number: SW192882

(no passcode is needed)

You also can join the event directly at

<http://www.mymeetings.com/nc/join.php?i=SW192882&p=&t=c>

Call-In Info

To call in: 1-877-989-1543

Passcode: 8864359



EnergyPlus and SketchUp – Integrating Building Energy Performance into Design

A seminar presented by DOE/EERE’s Office of Planning, Budget, and Analysis and NREL’s Strategic Energy Analysis and Applications Center

Drury Crawley, Team Leader (acting)

Commercial Buildings, Office of Energy Efficiency and Renewable Energy

Thursday, August 14, 2008

10 – 11 a.m. (Golden, Colo.)

Noon – 1 p.m. (Washington, D.C.)

(The seminar is also offered via conference call or Internet conferencing. See the log-in and call-in information below. **An RSVP is required to ensure that we have enough phone lines and/or seats.**)

EnergyPlus—DOE’s building energy simulation program—includes many building energy-simulation features that previously have not been available together in a mainstream program. Features include variable time steps, configurable modular systems integrated with a heat balance-based zone simulation, on-site power, hybrid natural/mechanical ventilation, and under-floor air distribution (UFAD). The underlying heat balance load calculation method is included in the 2005 American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Fundamentals. In 2007, DOE began working on a plug-in for Google’s SketchUp software, which Google describes as “3-D for everyone.” SketchUp is used by a majority of architects during early design to facilitate studies of shape and massing. The Energy Design Plug-In integrates EnergyPlus with SketchUp, allowing easy evaluation of building energy performance. This presentation, by Drury Crawley of EERE, introduces EnergyPlus and its simulation methodologies, capabilities, utilities, and interfaces that facilitate using it.

Drury B. Crawley is acting team leader for the Commercial Buildings area of DOE’s Office of Energy Efficiency and Renewable Energy. He leads DOE’s team that is working to achieve net-zero energy commercial buildings by 2025. He also is responsible for managing DOE’s building energy software tools research and development activities including EnergyPlus, Energy Design Plug-In, and DOE-2, among others. He has more than 30 years of experience in energy efficiency, renewable energy, and sustainability for buildings; and is active in ASHRAE, the U.S. Green Building Council, and the American Institute of Architects. He serves on the editorial boards of three international journals, has published more than 100 papers and articles, and has given more than 175 presentations throughout the world.



Drury Crawley

Golden, Colo., information

**1617 Cole Blvd., Golden, Colorado
Building 3, Conference Room 170.**

Due to construction at the Visitors Center, the seminar location will remain in Building 3 until further notice.

Please contact Kalia Kehoe at

kalia_kehoe@nrel.gov or 303-384-7439

Washington, D.C., information

**901 D Street SW (adjacent to the Forrestal Building)
or 370 L’Enfant Promenade. Ninth Floor.**

**Please contact Wanda Addison, of Midwest
Research Institute (MRI), at**

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For more information on NREL analysis and applications, please visit www.nrel.gov/analysis and www.nre.nrel.gov/applying_technologies