

# 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

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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

# Ultraviolet Germicidal Irradiation for Reducing Disease Transmission and Energy Use

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

**Shelly Miller, Associate Professor**  
University of Colorado

**Thursday, November 13, 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.** The presenter will be in Golden, Colorado.)

Airborne transmission of infectious agents within indoor environments has been a recognized hazard for decades. Engineering controls such as ventilation and negative pressure have been helpful for control of airborne infectious agents in high-risk settings such as hospital isolation rooms. Increasing energy costs associated with providing adequate ventilation has prompted renewed interest in other means to remove airborne infectious agents from room air, such as the application of ultraviolet germicidal irradiation (UVGI). During this seminar, Shelly Miller will discuss the aim of a University of Colorado (CU) UVGI research program, which systematically investigates the conditions under which UVGI can be expected to mitigate the spread of infectious agents. She will discuss the results from CU's detailed experiments during the past 10 years, summarize the commercial applications of this technology, and present the potential energy and cost savings related to building operation.

**Shelly Miller** is an associate professor of mechanical engineering at the University of Colorado. She also is an active faculty member of the interdisciplinary Environmental Engineering Program at CU. Her research interests focus on indoor air quality, health effects and exposure to particulate air pollution, and development and evaluation of indoor air quality control measures. Miller received the Chancellor's Postdoctoral Fellow from the University of Colorado in 1996. In 2000, she received an Environmental Achievement Award from the U.S. Environmental Protection Agency Region 8 for her work assessing indoor air quality in schools. Miller received her bachelor's in applied mathematics from Harvey Mudd College and master's and Ph.D. degrees in civil engineering from the University of California, Berkeley.



**Shelly Miller**

## Golden, Colo., information

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

**Please contact Kalia Kehoe at  
[kalia\\_kehoe@nrel.gov](mailto: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  
[wanda\\_addison@nrel.gov](mailto:wanda_addison@nrel.gov) or 202-488-2202**