



US Army Corps  
of Engineers®

# ENGINEERING AND CONSTRUCTION BULLETIN

No. 2008-21

Issuing Office: CECW-CE-D

Issued: 20 June 2008

**Subject:** Training will be offered to help Corps District design and construction engineers and DPW staff with mold and mildew remediation for new construction, major renovations and existing buildings.

**Applicability:** Information

1. It is very important that Corps Engineering and Construction staff and Army DPW staff be effectively trained in mold and mildew remediation. This is especially important for project managers of new construction and renovation projects, architects, structural engineers, HVAC and HVAC controls designers, and installation energy managers, master planners, and O&M personnel. This week-long workshop will be held in Fayetteville, NC at the Doubletree Hotel. It will include three days of classroom training at the hotel and 2 days of "hands on" training at Ft Bragg. There is no tuition charge for this training for Corps or Army installation personnel. Private sector attendees will be accommodated at no tuition charge on a space available basis.
2. The Engineer Research and Development Center (ERDC) will conduct the week-long workshop. This training has already been paid for by HQUSACE, so you are only responsible for any salary, travel, and per diem. The workshop will be held October 20-24, 2008 and will start at 0800 on Monday and end at 1500 on Friday. Please plan on five full days. Transportation will be provided from the Doubletree Hotel to/from Ft Bragg so rental cars will not be needed to accomplish the training.
3. To attend this course please email your name and contact information to Dale Herron at ERDC ([dale.l.herron@usace.army.mil](mailto:dale.l.herron@usace.army.mil)). To reserve a sleeping room, contact the Doubletree Hotel before Sep 19<sup>th</sup> at (910) 323-8282 and ask for the US Army workshop group rate.
4. A draft list of subjects is included below:

## DRAFT – SUBJECT TO REVISION

- Biological and Indoor Air Quality
  - Relative Humidity
  - Mold, Mildew, Fungi, Bacteria
  - Moisture Transport Mechanisms
  - Dilution and Source Control Differences Based on Climate
  - Surface Temperature Control versus Moisture Control
- Keeping the Rain Out of Buildings

## ECB 2008-21

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- Drainage Planes
- Rain, Holes and Forces
- Traditional Stucco, EIFS, and Brick Veneer
- Face Seal, Barrier Walls, and Rain Screen
- Pressure Equalization and Water Managed Systems
  
- Vapor Diffusion Retarder, Air Flow Retarder and Roof/Attic Ventilation
  - Thermal Gradients and Condensing Surfaces
  - Difference between Vapor Diffusion and Air Transported Moisture
  - Impermeable and Permeable Sheathings
  - Insulating and Non-Insulating Sheathings
  
- Mechanical Systems and Controlled Ventilation
  - Dedicated outdoor systems
  - Exhaust vs. Supply Ventilation vs. Balanced Ventilation
  - Preconditioning of Makeup Air
  - Negative Air Pressure Fields

5. Special thanks to Dale Herron, CERL (217) 373-7278, and Alexander Zhivov, CERL (217) 373-4519, for organizing this workshop. HQUSACE point of contact for this ECB is Gary Bauer, 202-761-0505.

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