



NATIONAL EMERGENCY TRAINING CENTER  
EMERGENCY MANAGEMENT INSTITUTE

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CLASS SCHEDULE

COURSE CODE: E274

NATIONAL DAM SAFETY PROGRAM TECHNICAL SEMINAR NO. 19

*"FILTERS, DRAINS, AND GEOTEXTILES IN DAMS AND LEVEES"*

February 22–23, 2012

Course Manager

Robert Perry

Place

Building J & E, Auditorium

Wednesday, February 22, 2012

Building J, Auditorium

8:15 a.m.      Welcome

Robert Perry, CFM  
Training Specialist/Course Manager  
Mitigation Branch  
Emergency Management Institute  
Emmitsburg, MD

**History**

8:30            History of Graded Filters

Dr. John Schmertmann, P.E.  
Principal  
John H. Schmertmann, Inc.  
Gainesville, FL

9:30            Geotextile Filter Failures

Dr. Robert Koerner, P.E., NAE  
Emeritus Director/Emeritus Professor  
Geosynthetic Institute  
Drexel University  
Folsom, PA

10:30          Break

**Principles**

11:00          Fundamental Function of Filters

Jim Talbot, P.E.  
Senior Engineer for Dam Design,  
Construction, and Rehabilitation  
St. Leonard, MD

12:00          Lunch

Wednesday, February 22, 2012 (Continued)

**Design Guidance and Criteria**

1:00 p.m.	Federal Emergency Management Agency (FEMA) Filter Manual	Mark Pabst, P.E. Senior Specialist Risk Management Center U.S. Army Corps of Engineers Golden, CO
	Filter Design Example	Noah Vroman, P.E. Geotechnical Engineer Vicksburg District U.S. Army Corps of Engineers

2:30 Break

**General Topics**

3:00	Seepage-Related Failure Modes	Dr. Kevin Richards, P.E. Senior Civil Engineer Division of Dam Safety and Inspections Office of Energy Projects Federal Energy Regulatory Commission Chicago, IL
3:30	Geotextiles in Embankment Dams	Mike Gobla, P.E. Geotechnical Engineer Bureau of Reclamation Denver, CO
4:30	Adjourn	

Thursday, February 23, 2012

Building E, Auditorium

8:15 a.m.	How to Determine if a Filter is Working Properly	Hal Van Aller, P.E. Geotechnical Engineer Maryland Dam Safety Division Baltimore, MD
8:45	Top 10 for Chimney Filter/Drain Systems	John France, P.E. Vice President URS Corporation Denver, CO

Thursday, February 23, 2012 (Continued)

9:15 a.m. Dams without Filters Mike Gobla, P.E.

9:45 Break

**Field Performance and Case Studies**

10:15 Successes and Failures in the Western Part of Virginia Thomas Roberts, P.E.  
Regional Regulatory Engineer–Dam Safety  
Division of Dam Safety and Floodplain Management  
Christianburg, VA

10:45 National Resources Conservation Service (NRCS) Case Histories Tom Brown, P.E.  
Geotechnical Engineer  
National Design, Construction and Soil Mechanics Center  
Natural Resources Conservation Service  
Fort Worth, TX

11:15 Waterbury Dam Filter Injection Case History Michael Snyder, P.E.  
Geotechnical Engineer  
Foundations and Dams Section  
Geotechnical Branch  
U.S. Army Corps of Engineers  
Baltimore, MD

11:45 Lunch

12:45 p.m. Ohio Case Histories Mia Kannik, P.E.  
Project Manager  
Division of Soil and Water Resources  
Dam Safety Engineering Program  
Columbus, OH

1:15 Case Study – Filter Evaluations for the Hartford Levee System Kevin DiRocco, P.E.  
Project Manager  
GEI Consultants, Inc.  
Woburn, MA

Thursday, February 23, 2012 (Continued)

1:45 p.m.	Challenges of Building Your Filter or Drain	Jim McHenry, P.E. Senior Civil Engineer Division of Dam Safety and Inspections Headquarters Office Federal Energy Regulatory Commission Washington, DC
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2:30            Break

**Panel Discussion**

3:00	State Dam Safety Representative, Private Sector, US Bureau of Reclamation(USBR), Federal Energy Regulatory Commission (FERC), US Army Corps of Engineers (USACE)	Hal Van Aller, P.E. (State of MD) John France, P.E., URS Corp. (Private Sector) Mike Gobla, P.E. (USBR) Joseph Mueller, P.E. (FERC) Noah Vroman, P.E. (USACE) Dr. John Schmertmann, P.E. (Private Sector) Jim Talbot, P.E. (Private Sector)
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4:15            Adjourn