

ONE DAY SHORT COURSE

Constructing with Fabricated Geomembranes: Advances & Emerging Trends

7.0 Professional Development Hours (PDHs)

WHO SHOULD ATTEND

Those involved with the design, specification, testing, construction, operation, ownership, and/or regulatory oversight of geomembrane lined or covered facilities including water, waste, coal, and petroleum containment.

WHY YOU SHOULD ATTEND

Attendees will gain a broad knowledge of the advantages, manufacturing, fabrication, and installation of fabricated geomembranes and what is required to properly design, specify, test, and construct fabricated geomembranes for the following applications:

- Coal combustion residuals, Mining, Floating covers systems;
- Canals, decorative, and irrigation ponds;
- Wastewater treatment ponds;
- Secondary containment;
- Golf Course and decorative Ponds;
- Waste containment liner and cover systems.



ONE DAY COURSE AGENDA

| <u>TIME</u> | <u>PRESENTATION TOPIC</u> | <u>SPEAKER(S)</u> |
|----------------|---|---|
| 7:30-8:00 am | Registration/Continental Breakfast | |
| 8:00-8:20 | Introductions & FGI Research | (Mansue & Stark) |
| 8:20-8:40 | Current & Emerging Regulatory Issues | (Klesmith) |
| 8:40-8:50 | Factory v. Rolled Geomembranes | (Slifer) |
| 8:50-9:10 | Geomembrane Manufacturing | (Kolbasuk) |
| 9:10-9:25 | Geomembrane Selection Matrix | (Frobel) |
| 9:25-9:35 | Break/Networking/Discussion | |
| 9:35-10:30 | Fabrication & Installation | (Lange & Heap) |
| 10:30-11:00 | Geomembrane Testing & Specification | (Allen) |
| 11:00-11:30 | Leak Location Surveys | (Laine) |
| 11:30-12:00 pm | Lunch and Networking | |
| 12:00-12:30 | Welding Demonstration & Testing Demo | (Sinclair & Hobbs) |
| 12:30-1:30 | Floating Covers & Potable Water | (Mills) |
| 1:30-2:00 | Coal Combustion Residuals | (Zych) |
| 2:00-2:15 | Break/Networking/Discussion | |
| 2:15-3:00 | Mining Applications | (Breitenbach) |
| 3:00-3:30 | Oil Development, Production & Cleanup | (Shehane) |
| 3:30-3:45 | Canals, Decorative & Irrigation Ponds | (Heap) |
| 3:45-4:00 | Secondary Containment | (Lange, Peebles) |
| 4:00-4:15 | Local Design & Installation Experience | (McVay) |
| 3:30-4:30 | Case Histories (5-10 minutes each) | (Sheridan, Slifer, Eichelberger, Lange, Simbeck, Boorsma) |
| 4:45-5:00 | Summary & Questions | |
| 5:00 | Geomembrane Welding & Testing Demo | (Sinclair & Hobbs) |

Friday, March 11, 2011

7:30 a.m.– 5:00 p.m.

Hilton Garden Inn-Indianapolis NW
6930 Intech Blvd.
Indianapolis, IN 46278
(317) 288-6060

INSTRUCTORS (IN ORDER)

Timothy D. Stark, Ph.D., P.E.-
University of Illinois at Urbana-Champaign
Larry Manue – IDEM
Daniela Klesmith– IDEM
Stan Slifer – Watersaver Co.
Gary Kolbasuk – Raven Industries.
Ron Frobel – Frobel & Associates
Stuart Lange – Lange Containment.
John Heap – Colorado Lining Intl.
Sam Allen – TRI/Environmental
Daren Laine – Leak Location Services
Frank Sinclair – Sinclair Equipment Co
Steve Hobbs – Leister Tech & Concord
Andrew Mills – Layfield Group.
Gary Zych – American Electric Power
Allan Breitenbach – Vector Engrg.
Bill Shehane – Seaman Corp.
Ray Peebles – Cooley Group
Dan McVay – ATC Associates
Chris Eichelberger – AEG, Ltd.
Terry Sheridan – GeoStorage, Inc.
Jeremiah Boorsma – AccuGeo Liner
Duff Simbeck – Simbeck & Assoc.



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TRAVEL TO HILTON GARDEN INN - INDIANAPOLIS NW:

- 6930 Intech Boulevard, Indianapolis, IN 46278, 317-288-6060 (no special FGI Short Course Room Rate)
<http://www.indianapolisnorthwest.hgi.com>

Directions from Indianapolis Int'l Airport: (No Hotel Shuttle) 12 mile drive: Head SW on Sky Bridge Dr. Left on High School Rd. Merge on to I-465 N/I-70 onto I-465 N/I-74 W. Exit 21 for 71st St. Left at W 71st St. Left at Intech Blvd. Hotel is on the right.

Directions from East of Indianapolis: I-70 going EAST to Indianapolis, take exit 73B merge onto I-465N/I-70W - follow I-465N take exit 21 for 71st Street turn left at W 71st Street and left onto Intech Blvd.

Directions from West of Indianapolis: I-70 going WEST to Indianapolis, take exit 83B merge onto I-65N toward Chicago - take exit 124 for 71st Street turn left at W 71st Street and left onto Intech Blvd.

3 WAYS TO REGISTER:

1. Register on-line with credit card at: <http://fgiindy.eventbrite.com>.
2. E-mail personal and credit card information required below to: fabricatedgeomembrane@gmail.com
3. Mail required information and check payable to: FGI, University of Illinois, Dept. of Civil Engineering, 205 N. Mathews Ave., Urbana, IL 61801.

Registration:

Enrollment is limited to facilitate the presentations and course discussions so please register early but no later than March 4, 2011. Full payment of \$49 before February 21, 2011 and \$99 after February 21, 2011, must accompany each registration. Government employee and student registration is free before March 4, 2011 and \$49 after March 4, 2011. The registration fee covers one full day of instruction, reference materials and short course notes, continental breakfast, morning and afternoon refreshments, and lunch. The short course materials are not available for sale to persons not attending the course. Payment must be sent with the attached registration form.

Cancellations:

Advance enrollment is required. If you cannot attend, please notify us immediately. We will try to refund as much of your fee as possible or you may select someone to assume your enrollment position. This is a limited enrollment course and "no-shows" will be charged the full amount if they do not cancel before March 4, 2011 because of meal costs.

Name _____

Title _____

Company _____

Address _____

City/State/Zip _____

Phone _____

E-mail _____



Credit Card Information:

1) Charge my registration fee to: Visa MasterCard

Card no.: _____

Exp. date: _____

Your Signature: _____