

ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS

SOUTHERN CALIFORNIA SECTION, SAN DIEGO CHAPTER

"Serving Professionals in Engineering, Environmental and
Ground-Water Geology"

San Diego Chapter, April 2006 Newsletter

APRIL MEETING NOTICE: WEDNESDAY, APRIL 18, 2006. SOCIAL TIME STARTS AT 5:30 PM, TALK AT 6:30 PM

April's meeting features a presentation by Hans Van de Vrugt, CEG, R.Gp of Southwest Geophysics. Hans will present on geophysical applications for use in environmental and geotechnical consulting. The meeting will be at the offices of Ninyo & Moore, 5710 Ruffin Road, San Diego, CA. Please contact Ashley Galland (agalland@ninyoandmoore.com) to RSVP. Dinner is buffet-style. Cost is \$20.

Hans is President of Southwest Geophysics here in San Diego. At Southwest Geophysics Mr. van de Vrugt's experience includes performing and managing geophysical studies. He has over 15 years of experience in conducting geophysical evaluations for projects such as schools, medical centers, convention centers, treatment plants, pipelines, transportation corridors, resorts, commercial and residential developments, and landfills. Some specific geophysical project experience includes:

- **Leo Carrillo State Beach, Malibu California:** Geophysicist for the proposed installation of a Geotube. The Geotube is intended to mitigate future erosion of site improvements located along the State beach. Services provided included the performance of seismic refraction surveys, electrical resistivity soundings, and ground penetrating radar profiles in the area of the proposed Geotube; data compilation; and preparation of a written report.
- **USEPA Unexploded Ordnance Removal Site, Southern California:** Geophysicist for survey services and geophysical analysis for the evaluation of a 13-acre portion of a suspected unexploded ordinance (UXO) property located at a World War II U.S. Army facility. Following the war and from the mid-1950s to about 1993, private industry also used portions of the area for the storage, manufacturing, assembling, and testing of a variety of explosives and pyrotechnic materials (fireworks). Services included conducting initial/reconnaissance level surveys using highly sensitive hand held metal detectors to delineate any surface/near surface UXO. Following the initial survey, a highly detailed survey was conducted using EM 61 and a total field magnetometer. Data were processed in the field. The results of the survey uncovered several UXO which were later detonated by the San Bernardino Bomb Squad.
- **Desert Basin Generating Station, Casa Grande, Arizona:** Geophysicist during a geotechnical evaluation for the proposed 500-megawatt, natural gas-fired Desert Basin Generating Station. The purpose of the evaluation was to develop geotechnical data to be



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used by the design/build team in the preparation of their cost estimates. Field work included the performance of downhole seismic surveys. Both P- and S-waves were generated and recorded in order to develop engineering parameters for the design of the plant.

- **Combat Training Pool/Tank, Miramar Marine Corps Air Station, San Diego, California:** Geophysicist conducting ground penetrating radar (GPR) to locate the voids beneath and adjacent to the pool shell. Numerous GPR transects were conducted along the sides of the pool and adjacent to other site improvements near the swimming pool.
- **Marine Corps Base, Camp Pendleton, Oceanside, California:** Geophysicist during the performance of environmental site assessment of 78 former underground storage tank (UST) sites at Camp Pendleton Marine Corps Base. The geophysical surveys were used to delineate the location of USTs and existing utilities so that an appropriate boring location plan could be formulated. Surveys included the use of magnetics, GPR, electromagnetics, and line tracers.
- **Palmilla Golf Course, Palmilla Resort, San Jose del Cabo, Mexico:** Geophysicist providing services as part of a groundwater study for Arroyo Palmilla and Arroyo Seco located within the Palmilla Golf Course at the Palmilla Resort. The purpose of the study was to assess the presence and potential quantity of useable groundwater for irrigation of the golf course. Services included the review of background geologic and geophysical data, performance of electrical resistivity surveys and seismic refraction profiles within, and across the arroyos, data interpretation, and preparation of a geophysical data report. The results were used in the design of a drilling and well installation program.
- **State Route 163 Widening, Clark County, Nevada:** Geophysicist providing geotechnical consulting services in conjunction with the widening of a three-mile long segment of State Route 163 in the Newberry Mountains near Laughlin. Services included the performance of seismic refraction studies to evaluate the rippability characteristics of the on-site rock materials in the proposed area of widening, the rock quality in Bridge Canyon for a planned abutment, and the depth to and quality of bedrock near Hiko Springs for a planned retaining wall. The study involved the collection of 8,970 lineal feet of data along 64 seismic refraction survey lines. Seismic profiles included lines of 100 feet long for proposed shallow cuts (10-20 feet), 200 feet long for intermediate cuts (20-40 feet), and 300 feet long for deep cuts (40-60 feet).

SUMMARY OF MARCH'S MEETING (Notes by Jonathan Goodmacher, President)

March's combined meeting with the ASCE-Geotechnical group was very well attended with approximately 60 persons in attendance. The speaker was Dr. Timothy D. Stark, Ph.D., P.E who is a Professor of Civil Engineering at the University of Illinois at Urbana-Champaign. Dr. Stark summarized a case study of observations, data, and analyses that were used to investigate the



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cause of distress in two housing developments located downslope of a large hillside fill. This case history highlighted the importance of locating the critical cross-section or weakest portion of the hillside before construction and designing the slope to ensure that it remains stable, the proper use of back-analyses in landslide investigations, the use of the critical cross-section in the back-analyses, and the importance of installing slope inclinometers shortly after the report of distress and installing them in and outside of the slide mass.

PRESIDENT'S MESSAGE:

A major **Thank You** to Lee Vanderhurst of Geotechnics for volunteering to assist with the Chapter Newsletter. Lee will be editing next month's newsletter.

On a related topic we (local members) need to think about organizational continuity. The term of the current officers ends in September and we will be soliciting volunteers and input from the membership. Please think about participating. As President I probably spend about 4 or 5 hours a month in organizing and planning. It's not a major commitment of time and is a good way to maintain and develop contacts within the community of consultants.

The 2007 AEG National Convention will be held in Los Angeles. The 50th Anniversary of the founding of the AEG will be celebrated at this convention. As part of that planning I am responsible for reporting back to the committee on desired short courses. At this time the committee is considering short courses on geostatistics, geophysical techniques, age-dating techniques, and landslides. We are also seeking suggestions for fieldtrips. Finally, AEG will be presenting an annual award for outstanding projects in environmental or engineering geology. If you have ideas for short courses or a large project that merits consideration please contact me (jgoodmacher@ninyoandmoore.com). FYI, the 2007 convention is scheduled for September 24 through 28, 2007. It will be held at the Sheraton Universal Hotel (near Universal Studios).

UPCOMING SAN DIEGO AEG MEETINGS:

May 16, 2006: Dr. Peter Robertson of the University of Alberta and Gregg Drilling will present CPT and related technologies and their uses in environmental and geotechnical applications. Dr. Robertson has more than 30 years of experience in geotechnical engineering in both private industry and academia. He was the Chief Engineer for a geotechnical consulting firm in Hong Kong where he was involved in major soil and rock slope stability studies and design of deep foundations and large excavations. Dr. Robertson's research and development work has centered on in-situ testing techniques and their application to geotechnical engineering. Major areas of application have been soil liquefaction, earthquake analyses and soil structure interaction problems. He is also a co-author of a major text book on Cone Penetration Testing. In addition, he has published over 200 technical papers and has presented more than 50 specialty short courses and seminars to geotechnical professionals in North America, Europe and Asia.

June 2006: We are looking for a topic of interest to the community. Please contact Jonathan Goodmacher (jgoodmacher@ninyoandmoore.com) if you have a good suggestion.



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MEETINGS OF AFFILIATED GROUPS AND SAN DIEGO AREA SEMINARS/PRESENTATIONS

Deep Foundations Institute Short Course (May 4 and 5, 2006): AEG has partnered with the Deep Foundations Institute to offer a Short Course and Seminar on Augered Cast in Place Piles. The course date is May 4 and 5 and it will be at the Radisson Hotel at Los Angeles International Airport. AEG Members get a discounted rate to participate, so be sure to check the "AEG" box in the member organization list on the registration form attached to this email.

San Diego Association of Geologists (SDAG) April 19, 2006: The SDAG monthly meeting will feature student presentations. The meeting will be held at Giovanni's Restaurant, 9353 Clairemont Mesa Blvd, San Diego, CA 92123. Meeting starts at 6 pm.

The **Groundwater Resources Association of California** has several events coming up that may be of interest to the consulting community. A list is presented below. Go to www.grac.org for more information on these events.

- April 29, GRA Legislative Symposium and Lobby Day in Sacramento
- April 4-5, Nitrate in California's Groundwater in Modesto
- June 7-8, Emerging Contaminants in Groundwater in Concord.

The **2006 Roy J. Shlemon Specialty Conference** is being held May 3-5, 2006 in Durango, Colorado at the Historic Strater Hotel. The conference subject is "Mass Wasting in Disturbed Watersheds" chaired by Bill Haneberg, Sue Cannon, Paul Santi, and Jeff Coe. To receive more information and to register for the conference, go to the web site: www.haneberg.com/watersheds.

The **Seismological Society of America** will be in San Francisco to commemorate the 100th anniversary of the 1906 earthquake and kick off the SSA's centennial celebration at the "The 100th Anniversary Earthquake Conference". SSA will be meeting jointly with the Earthquake Engineering Research Institute for their 8th National Earthquake Conference and the California emergency management community for their annual Disaster Resistant California conference at the Moscone Convention Center on April 18-22. The conference is also being co-sponsored by more than 50 organizations from around the world, including AEG. Registration and hotel information is online at the 100th Anniversary Earthquake Conference website: <http://www.1906eqconf.org>

San Diego Association of Geologists Announces Call for Papers For the SDAG 2006 Annual Field Trip Guidebook: Southern Anza-Borrego Desert and Coyote Mountains, California
SDAG seeks new manuscripts based on original work in the broad fields of regional geology, tectonics, neotectonics, hydrogeology, paleontology, engineering geology, petrology, geothermal



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resources, geomorphology, paleoclimatology, mining and mineral resources, landslides, and related fields. Articles on any facet of the natural or cultural history of Anza-Borrego Desert State Park, Carrizo Marsh, Coyote Mountains, Yuha Basin, Valley of the Moon, Superstition Mountains, and vicinity are also welcome. Anza-Borrego Desert State Park and the surrounding area contain a broad spectrum of geologic and other natural features worthy of National Park status. We will explore the faulting and structural complexity of the northwestern Coyote Mountains, descend into the Borrego Badlands for a visit to the Mio-Pliocene fossil beds, venture into the mud caves of Arroyo Tapiado, and ponder the mysteries of The Domelands. The field trip stops have not been finalized. However, we plan to camp, probably near the Coyote Mountains or at Agua Caliente Campground. Meals will be provided. Carpooling is strongly recommended. For more information, please call Dave Bloom at 619-571-3470. **Deadline for submission of titles is April 26, 2006.** Please submit the title, authors and affiliation, and address, e-mail, and telephone and fax numbers for the corresponding author information when submitting titles. Submit title by e-mail to vp@sandiegogeologists.org **Deadline for submission of abstracts is May 9, 2006.**

FROM THE SECTION CHAIRMAN (REPRINTED FROM SECTION NEWSLETTER)

Below is a message from the Southern California Section Chair of AEG. It addresses issues and concerns that affect those of us with registration here in the State of California. As President I am aware that many of you already receive the section newsletter. However, a large percentage of our group is not a member of the AEG and don't receive the Section Newsletter. I encourage all to join the AEG as this is one example of the kinds of issues that are tracked by the group. Here is Charles Nestle's message:

March 24 BGG Meeting The Board for Geologists and Geophysicists held a meeting on March 24 specifically to address the performance of the Executive Officer, Paul Sweeney. The meeting was attended myself, Bruce Hilton, Marcia Kiesse, Dave Bieber (immediate past AEG President), Bob Anderson, Rick Rempel, TAC members Tony Sawyer and Roy Shlemon, former board staff members (Mary Scruggs and others), two representatives from the Board for Professional Engineers and Land Surveyors, Board counsels Gary Duke and Mr. Chang, Dr. Matthews (bravely mustering enough energy to attend), and a host of others who I didn't recognize and who didn't sign in. Most of those listed above spoke on a variety of issues where fault had been found with the performance of the Executive Officer.

All spoke on their personal observations, some in excruciating detail, that without corroborating evidence may verge on slander or libel. It seemed that among the current, and former staff members who spoke on the record (and indeed, Rick Rempel video taped the proceedings), that they all had such similar experiences that corroborating evidence should not be required (sufficient circumstantial evidence is often all that law enforcement requires to prosecute). The board members thought differently, however, and by majority vote chose to keep him on (majority, in this case, being two to one with one abstention).



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The Executive Officer serves at the pleasure of the Board and can be let go without cause. The amount of mistrust, antagonism, obvious dysfunction, and abundant testimony from such a divergent group of individuals airing a variety of complaints directly applicable to the Executive Officer should have been sufficient cause for dismissal. So why was he not dismissed, and why is the Board so apparently dysfunctional?

Problem 1: The Executive Officer of the Board for Geologists and Geophysicists is *not a geologist*. By way of comparison, The Executive Officer of the Board for Professional Engineers and Land Surveyors is a licensed Professional Engineer. Is this important? A non-geologist in the Executive Officer's position may be more prone to politicizing the decision-making process than a technical professional would be in the same position. On the other hand, some argue that managerial and political skills are more important than technical knowledge for the task of running a board.

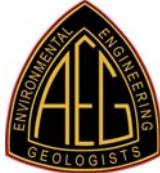
While there is no statutory requirement for any Executive Officer to be licensed by the board for which he or she serves, the increase in perceived credibility a licensed EO would bring to that board might make it a worthwhile objective. Since the board appoints the Executive Officer, this should be easily achievable.

Problem 2: Of the seven positions on the Board for Geologists and Geophysicists (BGG), three are vacant. Since Dr. Matthews (CEG) retired last month, only one current board member is a geologist – Bill Black (GP), three are public members, and two of those public members are engineers. How can a board of this composition possibly be expected to fulfill its obligations to the public while regulating an industry that its members are not part of? How can these board members be expected to question and fully comprehend the issues that they face without the specific education and training required to thoroughly understand them? The public members rely upon the experience and expertise of the professional members to guide them through these complex technical issues; but the lack of technical expertise on the board has left it ill equipped to provide the level of service the public and the industry demands.

The Solution: All vacant geologist positions on the Board for Geologists and Geophysicists must be filled. The board has two vacant CEG positions and will soon have one vacant geophysicist position when Mr. Black's term expires this coming July (although there is a provision in the code for a temporary extension should the position remain unfilled).

What you can do: Geologists who are interested in, and have the desire and drive to actually control the operation of the Board, must fill these positions. If you meet the qualifications for the position as specified in Business and Professions Code § 7811 (see page 4 of the Geologist and Geophysicist Act), you can apply for a board appointment by filling out, printing, signing, and mailing an on-line application form at the Governor's web page. Go to: <http://www.governor.ca.gov/>, then click on "Appointments" (on the left side of the page), then "Serving in the Schwarzenegger Administration." Follow the instructions from this point on.

Because this is a political appointment, filling out an application may not be enough. Make an appointment to visit your State representative(s) either at their local office, or in Sacramento, and let them know you've applied for the board appointment and would like their support. If



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you've never met your representatives, you will find they are surprisingly easy to talk to. Ask them to send a letter of recommendation to: Alice M. Dowdin, Deputy Appointments Secretary, Office of Governor Arnold Schwarzenegger, State Capitol, Sacramento, CA 95814. Even if you don't go to this level of effort, submitting an application provides a larger pool of applicants from which to choose. This is the critical first step to populating the board with qualified technical professionals who can educate the public members and work toward appointing a licensed professional as its Executive Officer.

Lastly: As stated in Business and Professions Code § 7810.1: "Protection of the public shall be the highest priority for the Board for Geologist and Geophysicists.... Whenever the protection of the public is inconsistent with other interests sought to be promoted, the protection of the public shall be paramount." Until the positions are filled, let's hope the Board and its Executive Officer strive to depoliticize their decisions. Reciting this Code Section prior to rendering decisions might help.

California Specific Exam: Part of the Board's decision to retain the services of Mr. Sweeney included throwing us a bone: the decision to eliminate the CSE has been rescinded. Whether or not this is cause to rejoice is debatable. Rumor has it that Mr. Sweeney may have argued that the whole bid to remove him began with complaints from AEG about his push to eliminate the CSE, and that everyone else simply fell in line. Given the number of different directions the attack came from, that argument clearly has no merit.

The tentative plan proposed by the Board is to include all stake holders in the discussion by arranging meetings via teleconference where anyone who wants to can participate. I find teleconferencing to be awkward and cumbersome, and high numbers of participants will render it even more so. But it's certainly a lot cheaper than flying everyone to Sacramento. As further details are developed you will be notified via e-mail blast to ensure so that you are informed as quickly as possible.

MISSION STATEMENT

The San Diego Chapter of the AEG subscribes to the national AEG's mission statement. The Association of Environmental & Engineering Geologists (AEG) contributes to its members' professional success and the public welfare by providing leadership, advocacy, and applied research in environmental and engineering geology.

AEG AND USEFUL LOCAL LINKS

- Southern California Section AEG: <http://www.aegsc.org/>
- National AEG: <http://www.aegweb.org/>
- San Diego Association of Geologists <http://www.sandiegogeologists.org>
- American Society of Civil Engineers, San Diego Geotechnical Group http://www.asce-sd.org/groups_geotech.asp



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- San Diego State University,
Geology Department <http://www.geology.sdsu.edu>

EMPLOYMENT

As a service to our members, AEG San Diego welcomes job postings - either for open positions or jobs wanted. Please contact Lee Vanderhurst (lvanderhurst@geotechnicsinc.com) for information on advertising in this newsletter. The cost for an ad is \$25 per month. As an incentive your ad posted in the San Diego Chapter Newsletter is included in the version of the newsletter posted on the Southern California Section website. A check for \$25 made out to the San Diego AEG should also be mailed to Steve Bradley, AEG San Diego Treasurer, Tetra Tech EMI, 1230 Columbia St., Ste. 1000, San Diego, CA 92101.

CHAPTER CONTACT INFORMATION

President	Jonathan Goodmacher	Ninyo & Moore	858.576.1000	jgood-macher@ninyoandmoore.com
Secretary	Jacques Lord	Shaw Environmental	619.398.3220	jlord@onesullivan.com
Treasurer	Steve Bradley	Tetra Tech EMI	619.321.6717	steve.bradley@ttemi.com
Newsletter Editor	Lee Vanderhurst	Geotechnics, Inc.	858.536.1000	lvanderhurst@geotechnicsinc.com



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The Deep Foundations Institute Augered Cast-in-Place Pile Committee Presents Two Events

Augered Cast-in-Place Pile Short Course & Specialty Seminar



[May 4-5, 2006](#)

[Radisson Hotel at LAX](#)

[Los Angeles, California](#)

In Cooperation With:

AEG

ASCE Los Angeles Section Geotechnical Group

ASCE San Francisco Section Geotechnical Group

CSI Los Angeles

Geo-Institute of ASCE

SEA of California

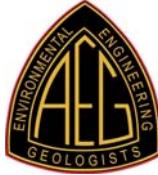
SEA of Southern California



Register online at www.dfi.org



Deep Foundations Institute
326 Lafayette Avenue
Hawthorne, New Jersey 07506



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Thursday, May 4th Short Course Program*

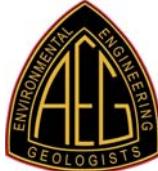
8:00 - 8:30	Registration/Speakers Prep/Exhibitor Set-up
8:30 - 8:40	Welcome: Introduction to Program & Instructors: <i>Willie NeSmith, P.E., Berkel & Company</i> <i>Michael Moran, Cajun Constructors</i> <i>Matthew Meyer, P.E.</i> <i>Langan Eng. & Env. Services Inc.</i>
8:40 - 10:15	Part 1: Introduction – Historical Perspective, Terminology, Course Organization Part 2: Installation Processes and Equipment
10:15 - 10:30	Break & Exhibits
10:30 - 12:00	Part 3: Pile Materials Part 4: Effects of Pile Installation on Performance Part 5: Design – Axial Design of ACIP Piles in Fine-Grained and Granular Soils, and Intermediate Geo-materials
12:00 - 1:00	Lunch
1:00 - 2:30	Part 5 Continued: Design – Axial Design of Drilled Displacement Piles Part 6: Lateral and Seismic Issues – ACIP and DD Piles Part 7: Geotechnical Characterization Part 8: Specifications
2:30 - 2:45	Break & Exhibits
2:45 - 4:00	Part 9: Inspection Part 10: Automated Monitoring Equipment Part 11: Load Testing Part 12: Non-destructive Testing
4:00 - 4:30	Panel Discussion: All Presenters Question & Answer
4:30 - 5:00	Exhibitor Breakdown



Friday, May 5th Seminar Program*

8:00 - 8:30	Registration/Speakers Prep/Exhibitor Set-up
8:30 - 8:40	Introduction, Program Moderator: <i>Chris Shewmaker, Richard Goettle, Inc.</i>
8:40 - 9:00	Historical Perspective on ACIP Piles <i>Willie NeSmith, P.E., Berkel & Company</i>
9:00 - 10:15	Installation & Design of ACIP Piles <i>Dan A. Brown, PhD, Auburn University</i>
10:15 - 10:30	Break & Exhibits
10:30 - 11:15	ACIP Pile Inspector's Video CD-ROM
11:15 - 12:00	ACIP and Drilled Displacement (DD) Pile Quality Control – <i>Rudolph P. Frizzi, P.E.</i> <i>Langan Eng. & Env. Services Inc.</i>
12:00 - 1:00	Lunch
1:00 - 1:30	Extensive Static & Dynamic Load Test Program on ACIP Piles at U.C. Davis Medical Center <i>Camilo Alvarez, MS, P.E., GRL Engineers Inc.</i>
1:30 - 2:00	ACIP Load Test Program for the Solano County Government Center <i>Kenneth G. Sorensen, Kleinfelder</i>
2:00 - 2:30	Orange County Advanced Water Treatment Facility: A Case Study of the Design & Application of Drilled Displacement Piles <i>Gordon King, Morris Shea Bridge Company</i>
2:30 - 3:00	Drilled Displacement Pile Load Test Program, MacArthur Place, Santa Ana <i>W. Morgan NeSmith, Jr., Berkel & Company</i>
3:00 - 3:15	Break & Exhibits
3:15 - 3:45	Deep Foundations Aspects of the Playa Vista Development, Los Angeles <i>Michael D. Reader, RCE GE Group Delta Consultants</i>
3:45 - 4:15	Consideration of Drilled Displacement Piles for Liquefaction Mitigation <i>Timothy C. Siegel, Berkel & Company</i>
4:15 - 4:45	Panel Discussion: All Presenters
4:45 - 5:45	Adjourn/Cocktails: Meet & Greet
5:45 - 6:15	Exhibitor Breakdown

*Program Subject to Change



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Come Informed!

DFI is offering the following Augered Cast-In-Place Piles publications at a discounted rate to attendees:

Augered Cast-in-Place Piles Manual, Second Edition, 2003 (Discounted Price: \$8.00)

This model specification addresses current trends in ACIP Pile construction and quality control, including the use of increased ACIP pile diameters and lengths to sustain significantly higher load carrying capacities, and the challenges associated with the use of grout and reinforcement necessary to sustain such higher loading. The Guideline Specification has been arranged to more closely match the format typically utilized in project specifications.

Inspector's Guide to Augered Cast-in-Place Piles, First Edition, 1994 (Discounted Price: \$8.00)

This manual summarizes the requirements expected of all parties concerned in the successful installation of these piles. Step by step installation procedures, construction equipment and inspection tools are discussed along with the common potential problems. Sample inspection forms are provided.

Augered Cast-in-Place Piles Installation Video, VHS, 1998 (Discounted Price: \$25.00)

Describes the installation of augered cast-in-place piles, including the various pieces of equipment and materials used in construction. Contains animation of drilling through a layered subsurface, grouting of the pile and installation of reinforcing steel.

Inspector's Guide to Augered Cast-in-Place Piles Video, VHS, 2000 (Discounted Price: \$25.00)

Describes the techniques used in the inspection of augered cast-in-place piles to augment the Inspector's Guide to Augered Cast-In-Place Piles publication. This video is primarily intended for contractors, geotechnical consultants and their inspectors.

Inspector's Guide to Augered Cast-in-Place Piles CDR & Viewable PDF (Discounted Price: \$40.00)

CD contains Quicktime Video, Inspector's Guide in Adobe PDF, Quicktime Install, Adobe Reader Install. Windows and Mac platforms supported. Video describes the techniques used in the inspection of augered cast-in-place piles.

Proceedings of Past Augered Cast-in-Place Seminars, 1997-2005 (Discounted Price: \$25.00 each)

Each proceedings includes technical papers presented at that year's seminar, including information on installation, quality control and case histories.

To receive publications before the seminar, get your registration into DFI HQ by April 10th!

Event Information:

DFI Augered Cast-in-Place Pile

Short Course & Specialty Seminar

Sponsored by the Augered Cast-in-Place Pile Committee

May 4-5, 2006

Radisson Hotel at Los Angeles Airport
Los Angeles, California

Exhibit Tables* Available Both Days!

Table-top materials only. No standing displays.

- Ship direct to Hotel.
- Exhibit your materials/information.
- Ship out.

Contact DFI at (973) 423-4030 for Information.

*All persons tending Exhibits must be registered in full.

Course Exhibitor Registration Fee

Covers one 6'x2' skirted table, two chairs, one attendee, breaks, lunch, registration materials, and handout binder.

Seminar Exhibitor Registration Fee

Covers one 6'x2' skirted table, two chairs, one attendee, breaks, lunch, reception, registration materials, and bound 2006 seminar proceedings.

Course Attendee Registration Fee

Covers attendance of event, breaks, lunch, registration materials, and handout binder.

Seminar Attendee Registration Fee

Covers attendance of event, breaks, lunch, reception, registration materials, and bound 2006 seminar proceedings.

Professional Development Hours

Attendees will receive a certificate verifying 6 Professional Development Hours (PDH)* for each day attended.

*The record keeping and determination of acceptability of DFI Professional Development Hours by state or government licensing bodies is the responsibility of the individual.

Hotel Reservations

Radisson Hotel at Los Angeles Airport
6225 W. Century Blvd.
Los Angeles, CA 90045
Hotel Direct: 310-670-9000
Toll Free: 800-333-3333

Specify **DFI 2006 ACIP Course & Seminar** for special \$100 Room Rate! This rate is discounted for DFI attendees and is subject to availability. Cut-off date is Wednesday, April 12th.



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Registration:

Augered Cast-in-Place Piles

Mail or Fax (with credit card information) to:

Deep Foundations Institute E-mail: staff@dfi.org
326 Lafayette Avenue Tel: 973.423.4030
Hawthorne, NJ 07506 Fax: 973.423.4031

Name: _____

Suffix (Jr., III) _____ Pro (PE, PhD): _____

Organization: _____

Address: _____

City: _____

State: _____ Zip: _____

Phone: _____ Fax: _____

E-mail: _____

Organization Type:

- Contractor Engineer Services
 Material/Equipment Supplier Educational

Member of*:

- DFI CGS Geo-Institute
 SEA of California CSI Los Angeles
 AEG ASCE San Francisco
 ASCE Los Angeles

* If you are a member of one of these organizations, please choose the member registration rate indicated in the next column.



Register for Course, Seminar or both events below:

Thursday, May 4th Short Course

- Non-Member Registration \$325.00
 Member Registration \$275.00
 Course Exhibitor Registration \$600.00
Includes one attendee registration and one 6'x2' table.
Table top displays only – no standing displays!
- Student Registration \$50.00
Does not include 2006 seminar proceedings

Friday, May 5th Seminar

- Non-Member Registration \$325.00
 Member Registration \$275.00
 Seminar Exhibitor Registration \$600.00
Includes one attendee registration and one 6'x2' table.
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