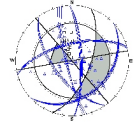




Association of Environmental and Engineering Geologists
Inland Empire Chapter



Rock Slope Stability Investigation and Analysis for Geologists

Two-Day Short Course

8:00 am - 4:00 pm (in field Saturday am)
June 23 and 24, 2006 (Friday and Saturday)

Temecula, California (Marie Calenders)
\$250, \$275 Non-Members, \$300, at door

Who

Geologists and Engineering Geologists who want to know and learn about introductory and advanced methods and topics for new skills, update, and review training are invited for this specialized short course focusing on traditional, and inland area southern California, issues regarding geologic hazards of rock fall and rock slope stability in soft, stiff or competent earth materials. Practical and applied concepts and applications will be presented for those participating, whether gaining new knowledge or for new techniques, interpretations and applications. CEU (Continuing Education Unit) credit will be earned upon attendance and completion of time-frames for the course.

Instructors

Brendan Fisher, Senior Engineering Geologist, Kleinfelder, Inc., Bellavue, Washington.

William (Bill) Gates, Ph.D., Principle Geological Engineer, Kleinfelder Technical Resource Center, Auburn, Washington.

Chester (Skip) F. Watts, Ph.D., Director, Institute for Engineering Geosciences, Dalton Distinguished Professor of Geology, Radford University, Virginia.

Course Topics

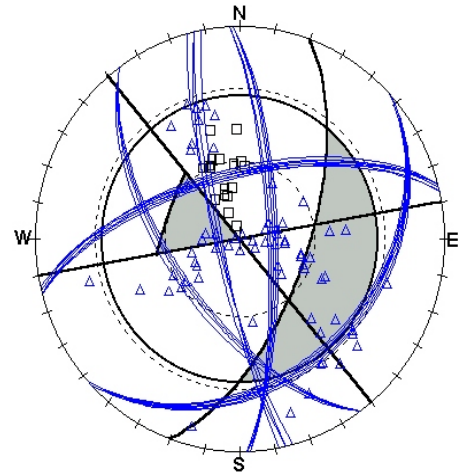
This two-day short course will focus on basic rock slope engineering presented from the standpoint of practitioners responsible for the design and construction aspects of excavations in rock.

Topics – Day One _____ Course focus (instruction in class):

- Rock slope field data collection methods and drilling and sampling techniques
- Rock mass rating systems
- Estimation of discontinuity and rock mass shear strength
- Kinematic slope stability analysis via stereonet projection
- Two and three dimensional limit equilibrium block stability analysis
- Markland's Kinematic Evaluation
- Rockfall hazard rating systems

- Slope remediation strategies including:
 - Slope reconfiguration
 - Drainage
 - Block reinforcement
 - Mesh
 - Buttresses
 - Blasting techniques
 - Case histories, if time allows

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Topics – Day two Course focus (field exercise and lab data analysis: field teams and class):

Course will consist of a morning field trip to nearby rock outcrop(s) where the group will be split up into “teams”. We will perform outcrop and line mapping and collect information pertaining to rock discontinuities and rock mass engineering properties. During the afternoon, we will return to the class meeting location and use the computer program ROCKPACK III to plot stereonets and perform stability calculations.

Course theme/strategy

Basic engineering theory will be covered during the course although the focus will be on the practical applied aspects of rock slope design and remediation tailored to engineering geologists. Each participant will receive class notes, which will consist of the PowerPoint slides that are presented in class. Other references provided to the participants will include journal articles that are pertinent to the course teachings. Participants will also receive a fully functional copy of ROCKPACK III (written by Professor Skip Watts) for use during the course and for a six-month evaluation period.

Course Itinerary (detailed actual course curricula/agenda will be in training materials)

8:00 - 4:00 Friday, 23-Jun-06: Classroom

Starting with Breakfast Buffet, class instruction until Banquet Lunch, followed by classroom instruction to close of day, then optional at lounge

8:00 - 4:00 Saturday, 24-Jun-06: Field/Classroom

Starting with Breakfast Buffet, proceed to field exercise until return, then Banquet Lunch, followed by session of data work-up for presentation.

Bring laptop computer if you have one you can bring.

Location and Directions

Marie Calenders Family Restaurant
 29363 Rancho California Road
 Temecula, CA 92591
 (951) 699-9339

Travel to Temecula. Directions are in reference to I-15 and Rancho California Road. East 0.4-miles on right from I-15 in Temecula from the Rancho California Road exit.



Association of Environmental and Engineering Geologists

Inland Empire Chapter, Southern California Section

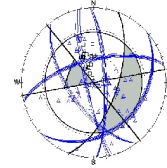
P. O. Box 8944

www.aegsc.org/chapters/inlandempire

Moreno Valley, CA 92552-8944

www.aegsc.org

Phone (951) 924-6756, (951) 276-6624, ext. 257 www.aegweb.org



REGISTRATION FORM FOR COURSE ENROLLMENT

Rock Slope Stability Investigation and Analysis for Geologists

Complete and return to register for enrollment with check payment as directed below, please:

Name (Title ?): _____

Affiliation: _____

Street No./PO: _____

Mail Address: _____

City _____ State _____ ZIP _____

AEG Member #: _____ Work Ph. No. _____ Other Ph. No. _____

Please complete above accordingly: Name (as you would like it for name label), Affiliation (company name, employer, etc.), Title (optional), Mail for receipt, etc., Phone Nos. for contact, or any emergency.

Course Fee (please mark amount remitted): \$250 (AEG Member) ___ \$275*(non-member) ___ \$300 (at door) ___

Please send e-Mail message when sending registration Form and payment to Treasurer rick.gundry@verizon.net . E-Mail confirmation of enrollment will be by return e-Mail/Mail (choose), and will constitute receipt of payment.

Submit please ASAP this Registration Form to Enroll and make payment and remit by check payable to:

AEG Inland Empire Chapter

P. O. Box 8944

Moreno Valley, CA 92552-8944

Registered Business Recipient at Postal Box

* **Note:** If you are not an AEG Member, it is easy to become one. Regular Professional AEG Membership Fee is \$105/year; however, new Members pay \$30 per year less for three years, ie. \$75 per year for the first three years. So why not join AEG today for \$75.00 this year, and save \$25.00 on Course Fee ? (Means only \$50 really for one-year Membership !) You can join online via credit card with very easy limited amount of information needed by seeking Membership at the AEG Web-Site, for Association of Environmental and Engineering Geologists.

Contact Becky Roland aeg@aegweb.org Ph. No. (303) 757-2926 FAX 303.757.2969

Why be a Professional that is a Member ? <http://www.aegweb.org/i4a/pages/index.cfm?pageid=3327>

See brand new AEG WEB-SITE opened last week at <http://www.aegweb.org>