Geology Continuing Education Series: GIS Applications in Geology and Groundwater Studies

March 4, 2006

co-sponsored by Inland Geological Society

Association of Environmental and Engineering Geologists, Inland Empire Chapter

Geosciences 825.B (.7 CEU)

This short course on GIS emphasizes analytical applications in geology and groundwater studies. It briefly describes GIS as a tool for geosciences and compares two mainstream GIS systems. The fundamentals behind USGS geologic mapping with GIS in Southern California are covered. A demonstration on how GIS can be used in geomorphological investigation of faults and debris flows as well as in the exploration and management of oil and gas fields is also included. Speakers demonstrate various 3D views with GIS on the subsurface structure and water quality as well as related GIS database to groundwater modeling with practical field examples.

PROGRAM COORDINATOR: TIEN-LEE, Ph.D., Professor of Geophysics, UC Riverside

Date/Time: Sat. 9 am-5 pm,

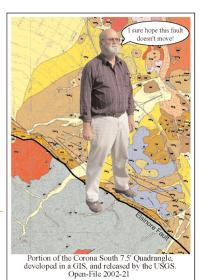
March 4.

Location: UC RIVERSIDE:

Extension Center, 1200 University Ave.

Fee: \$65 / \$60 each for members of the IGS or AEG / \$10 each for students (includes lunch, materials and parking, 1 meeting)

☐ Reg #053-SCF-F55



AGENDA

9 am Welcome / Introduction

9:10 am The GIS Behind the Geologic Maps of the USGS

Kelly Bovard, U.S. Geological Survey

9:40 am GIS and Spatial Distribution of Rainfall Associated With Debris Flows in

Southern California

Russ Cambbell, U.S. Geological Survey

10:20 am Morphology of Fault Bounded Mountain Fronts and Debris Flow Susceptibility

Rachel Alvares, U.S. Geological Survey

11:00 am Advances in Applying GIS to Oil and Gas Exploration and Production

Dr. John D. Grace, Earth Science Associates

noon Lunch – included

1:00 pm GIS as a Geotechnical Tool

Woodrow L. Higdon, Geo-Tech Imagery International

1:30 pm Surface Water and Groundwater Interaction Studies — Integrated Management of

Clean Water and Water Reuse

Les Chau, Kennedy/Jenks Consultants

2:30 pm Managing Groundwater in the Bunker Hill Basin

Raymond Brown, San Bernardino Valley Water District

3:30 pm GIS Methods to Estimate Ambient Water Quality in Groundwater

Andy Malone, Wildermuth Environmental, Inc.

4:00 pm **Discussion** (free forum)

5:00 pm Adjourn

All talks include 10-15 minutes of discussion.



PROGRAM INFORMATION:

Phone: (951) 827-5804 Fax: (951) 827-7374 E-mail: sciences@ucx.ucr.edu

Web Site: www.extension.ucr.edu

PARKING AT THE UC RIVERSIDE EXTENSION

CENTER, 1200 UNIVERSITY AVE.: Daily until 10 pm, vehicles must display a visitor permit or a quarterly evening/weekend permit. Parking is available in the parking structure south of the Center. Parking regulations are enforced from 8 am-10 pm daily in the UC Riverside Extension Center parking lot and parking structure.

TO ENROLL:

By Phone: If you use VISA or MasterCard, you may complete enrollment by calling (951) 827-4105 or

toll-free (800) 442-4990.

By Fax: For credit card or purchase order registration, fax completed enrollment form to (951) 827-7273,

Attn: Student Services.

By Mail: Enclose your check or VISA/MasterCard authorization and mail to: UC Riverside Extension

1200 University Avenue Riverside, CA 92507-4596

In Person: At the UC Riverside Extension Center, 1200 University Ave.,

Riverside.

IMPORTANT: We do not accept enrollments by e-mail, as it is not a secure method of communicating personal information.

ENROLLMENT FORM	W06
I wish to enroll in:	
Geology Continuing Education Series: GIS Applications in Geology and Groundwater Studies	
Geosciences 825.B Reg #053-SCF-F55	
□ \$65 □ \$60 each for members of the IGS or AEG □ \$10 each for students	
Full Name (please print) Social Security No. (Provide if using tuition	for tax credit)
Home Address (street, apt. no.)	
City State	ZIP Code
Daytime Phone	E-mail Address
Are you a U.S. Citizen: 🗌 Yes 🗍 No If no: 🗎 Permanent Resident 🗋 Type of VISA(International student fees may apply.)	
TO PAY BY CHECK: Enclose check made payable to REGENTS-UC in the amount of \$ to cover enrollment(s) and parking permit.	
TO USE YOUR CREDIT CARD:	
VISA/MasterCard No.	Expiration Date
Non-material inc.	-Aprilation bate
Authorizing Signature	
PLEASE USE A SEPARATE SHEET FOR ADDITIONAL ENROLLMENTS. THANK YOU.	

