



September 2017

## LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

**September 21 (Thursday) – 11:30 AM**

**W. Richard Laton, Ph.D., PG, CHG, CPG**

**Associate Professor of Hydrogeology, California State University, Fullerton**

### **LOW ALTITUDE PHOTOGRAPHY UTILIZING UAVs: GEOLOGIC AND HYDROLOGIC APPLICATIONS**

#### **Abstract**

Low altitude photography dates back to the late 1880s, when photographs were taken from hot air balloons. Aerial photography has since advanced throughout the years, with photographs have been collected via airplanes and satellites. Recent advancements in technology, specifically unmanned aerial vehicle (UAV) technology, have precipitated an increased interest in low altitude aerial photography. The UAV technology supplements an already-expanding spatial digital data area including Geographical Information System (GIS), remote sensing, and 3D visualizations. GIS consists of a computer-based spatial data management and analysis system that provides an excellent platform to analyze data gathered by the UAV. Remote sensing uses imagery (by satellite, aerial, kite, blimp, drone, etc.), both passive and active, to collect, detect, and analyze data. 3D visualization is an advanced way for scientists to look at natural systems in multiple dimensions that allows for the exploration, analysis, and understanding of the data.

Dr. Laton's talk will focus on specific uses of UAVs in a variety of geologic and hydrologic applications.

#### **Speaker's Biography**

Dr. Laton is an expert in the field of geology/hydrology/hydrogeology. He is currently an Associate Professor of Hydrogeology in the Department of Geological Sciences, California State University, Fullerton, and the prestigious 2014 Ross Oliver award winner. This continues a career that has included years of teaching, consulting, litigation support, and management experience. Dr. Laton possesses extensive knowledge in the areas of hydrogeology, soil and water contamination, hydrology and surface water, wetlands, coastal monitoring and geomorphology, field sampling techniques, and well hydraulics/well design, in addition to environmental remote sensing and GIS.

Dr. Laton's university classes encompass topics that include basic geology, water quality, environmental sampling, groundwater modeling, well hydraulics, and oceanography. He enjoys introducing students to applied research, and acts as the faculty advisor to a large number of upper-level students. He has also worked as a consultant for numerous companies and agencies needing input on the above subjects, and has performed natural hazard assessment and mapping.

***Join us for Dr. Laton's  
informative presentation!***

## Meeting Time, Place, Cost, and Reservations

### When:

**Thursday, September 21, 2017**

### Meeting Agenda

Lunch Served: 11:30 AM to 12:00PM  
Announcements: 11:45 AM to 12:00 PM  
Guest Speaker: 12:00 PM to 12:45 PM  
Questions/Close: 12:45 PM to 1:00 PM

### Place:

**The Grand at Willow Street Conference Center** located at 4101 East Willow Street, Long Beach, CA (562-426-0555). Take Lakewood Boulevard south from the San Diego Freeway (I-405), turn west onto Willow Street, and turn right onto Grand Avenue at the sign for the Center. Park for free in the multi-level garage structure.

### Cost:

Lunch and Speaker: \$25.00 *with reservations*  
\$30.00 *without reservations*  
Retired: \$20.00  
Student: \$5.00

**PAYMENTS IN CASH OR CHECK ONLY**

### Meeting Reservations:

We encourage you to make your reservations using the LABGS web site, at [www.labgs.org](http://www.labgs.org)

Otherwise, call Ryan Weller at (562) 637-6019, or e-mail [ryweller@gmail.com](mailto:ryweller@gmail.com).

Reservations must be made by: **10:00 AM Tuesday September 19<sup>th</sup>** to receive the discount price noted above. **As always, walk-ins are welcome.**

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## ANNOUNCEMENTS:

Let a LABGS Board member know if you have a pertinent announcement.