

# W. RICHARD LATON, Ph.D.

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## VITAE

### EDUCATION

- Ph.D. (1997), Geology with an emphasis in Hydrogeology, Western Michigan University  
*Groundwater - Kalamazoo River Interaction near the Parchment City Well Field, Parchment, Michigan.*
- M.S. (1992), Environmental Earth Science (Coastal Geomorphology), Western Michigan University  
*Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping.*
- B.S. (1989), Earth Science (Oceanography), Saint Cloud State University, Minnesota  
*Density Flow Analysis of Turbidity Currents.*

### PROFESSIONAL SUMMARY

Dr. Laton is an expert in the field of hydrology/hydrogeology. He is currently an Associate Professor of Hydrogeology in the Department of Geological Sciences, California State University, Fullerton. This is a continuation of a career that includes 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/geomorphology, field sampling techniques and well hydraulics as well as environmental remote sensing/GIS. His classes at the university encompass topics including: water quality, environmental sampling, groundwater modeling, well hydraulics, oceanography, and basic geology. He enjoys introducing students to applied research and acts as the faculty advisor to a large number of upper-level students. He has also acted as a consultant for a variety of companies and agencies that need input on the above subjects as well as natural hazard assessment and mapping.

### CERTIFICATIONS

California Professional Geologist (PG-7098)	Texas Professional Geologist (PG-10018)
Arizona Professional Geologist (PG-42253)	Washington Professional Geologist (PG-2517)
Indiana Professional Geologist (LPG-2191)	(Illinois and Florida pending)
Minnesota Professional Geologist (PG-44868)	AIPG-Certified Professional Geologist (CPG-10544)
Oregon Professional Geologist (G2153)	

OSHA 40-Hour Hazwoper Supervisor, active.

Certified Liquid Boot Applicator and Inspector

Boy Scouts of America – Merit Badge Sponsor; Geology, Oceanography, Environmental Science and Soil and Water Conservation

## SELECTED CONSULTING, RESEARCH, AND EMPLOYMENT EXPERIENCES

### Professional Profile

1998 – 2001 & 2007 – Present, Senior Consultant with *Earth Consultants International*.  
1995 – Present, Partner (Owner Operator) with *Environmental Science & Planning, LLC*.  
2008 – Present, Chairman / Chief Executive Officer to *Global Environmental Solutions Corp.*  
2001 - 2007, Consultant to *Hromadka & Associates*.  
1996 – 1998, Senior Hydrogeologist with *SimulProbe Technologies*.

**1995 – Present. *Environmental Science & Planning, LLC*.** Partner (Owner Operator).

#### 2008

- Provided expert analysis of Dry Cleaner facility for commercial property in Torrance, California. (*Environmental Engineering & Contracting, EEC*)
- Aided in developing conceptual model of manufacturing facility in Long Beach, California. (*EEC*)
- Provide technical oversight and alternatives for San Bernardino County Flood Control. (*EEC*)
- Orange County, California. Retained as expert on single family home in association with potential water issues. (Defense)
- San Bernardino County, California. Provided consulting services in relation to water supply to area of single family residences. (*EEC*)
- Signal Hill, California. Provided expert analysis of downhole video of suspected drain. (*EEC*)

#### 2007

- La Jolla, California. Provide expert testimony on surface and groundwater issues related to landslide. (Plaintiff)
- Long Beach, California. Provide expert testimony on surface and groundwater issues surrounding a coastal condominium complex. (Plaintiff)
- Norco, California. Provide expert oversight to Wildermuth Environmental, Inc., on surface water and groundwater sampling protocols and training.

#### 2006

- Riverside, California. Environmental Impact Report. Provided technical support on land development associated with an old mining claim.
- Irvine, California. Environmental Engineering and Contracting. Provided support and review of CPT, ROST data for environmental contamination project in the state of Illinois.

#### 2005

- Malibu, California. Provide expert testimony on sewer seepage and geology.
- Riverside, California. Layne Christenson. Oversaw specialized soil and groundwater sampling.

#### 2004

- Oakland, California. Apex Environmental. Soil and groundwater sampling.
- California. Apex Environmental. Statistical analysis of lead in soil samples.
- Carpentaria, California. Retained as wetland expert, included HEC-RAS modeling.

#### 2002

- Playa Vista, California. Carlin Environmental Consulting. Developed methane mitigation plan for residential and commercial development.

#### 1999 -2000

- Norco, California. Carlin Environmental Consulting. Oversaw development of methane sampling and mitigation standards for Riverside California.
- Methane Mitigation Investigation of Norco/Corona, California.
- Long Beach, California. Carlin Environmental Consulting. Soil and groundwater sampling.

**1997**

- Kalamazoo, Michigan. Worked with *United Environmental Technologies, Inc.* to help develop sampling and well construction protocols for various projects.

**2001- 2007**, Costa Mesa, California. Consultant to *Hromadka & Associates*.

Provided litigation support, computer and physical modeling, expert report review and writing. Managed cases and field site inspections for company.

**2006**

- PCB transport in San Diego Bay, San Diego, California.
- Physical model of apartment complex combined sewer and storm drain network (Chubb).
- Severe rainfall analysis in four events, flooding, San Francisco, California.

**2005**

- Analysis of sediment transport from large grading project, Yorba Linda, California, and nursery debris production at school site.
- Groundwater uplift analysis of clogged filter fabric in flexible lining and sediment transport in San Diego Creek in 2-mile reach using flexible block lining, Irvine, California.
- Sediment transport in Compton Creek downstream of Montrose Plant, in Torrance, California. Transport analysis of sediment in major/minor events.
- Development of Volume Based BMP design procedure for San Bernardino County WQMP.
- Multi-lake hydrologic and water quality analysis at Lake Merced, California. Phosphates, nitrates, golf courses, coliform in groundwater, flood control and risk reduction. Tunnel flow capacity analysis. Hydrologic balance analysis.
- Transport and fate of TCE, PCE in surface water, Santa Rosa, California.
- Soil water transport and ET studies for Anaheim Hills, California for several hundred residences. Water balance studies.
- Soil water transport and ET studies for several dozen residences in Fullerton, California. Soil water flux in concrete.
- Soil water transport and hydrologic balance analysis near land slides in San Clemente, California.
- Soil water transport and hydrologic balance analysis of residential tract near Castaic Lake, California.
- Soil water transport and hydrologic balance analysis of residential tract in Fullerton, California.
- Groundwater plume transport, analysis of BTEX in rising GW in Oahu, Hawaii (Island Demolition). Tidal effects.
- Flooding in Daly City and San Francisco, California. Tunnel capacity analysis.
- Rising Tide flooding, global warming review, Oahu, Hawaii.

**2004**

- Analysis of TDS, cement Kiln dust, chlorinated hydrocarbons, BTEX, TCA, TCE, DCA, DCE, groundwater flow in fractured and faulted media, Tejachapi, California
- Groundwater hydrostatic pressure analysis, waterproofing of office center, Irvine, California (OPUS)
- Landslide, Laguna Canyon, California (Merz)
- Sediment and Debris production, transport, 50-acre watershed, (Van Steenhuyse), Fullerton, California.
- Transport of Aeolian Sand, PM10, saltation, creep, entrainment in "Blow Sand" area, Palm Springs, California.
- Water Quality holding time criteria development, 85-percentile of average storm analysis, County of San Bernardino, Water Resources Division.

### 2003

- Sediment transport analysis between city of Torrance and Santa Monica Bay. DDT transport.
- Analysis of TDS, viruses, bacteria, raw sewage, in New River, and Salton Sea. RMP. Evaporation impacts to Salton Sea salinity.
- Analysis of landslide development in San Clemente, California (Callen)
- Analysis of soil water excess, Highland Glen, Henderson, Nevada. Perchlorate sampling and analysis
- Review of perchlorate modeling and transport, Mid-Valley Landfill, San Bernardino County, California.
- Groundwater supply and TDS levels of inflow into New River and Salton Sea, Imperial Valley, California
- Man-made preferential pathways and groundwater transport in land development, Henderson, Nevada.
- Water Supply, soil water saturation, landscape methodology review, moisture accumulation, percolation tests, in Anaheim Hills, California.
- Analysis of releases, BTEX, MTBE, lead, groundwater flow, plume evolution, soil gas, soil TPH, CPT/LIF, Hydropunch data, at Mission Valley, San Diego, California.

### 2002

- Sediment transport and erosion near Honolulu, Hawaii.
- Debris and sediment flow in Duck Creek, Las Vegas, Nevada.
- Statistical analysis of all Orange County sediment and contaminant data, San Diego Creek watershed.
- Modeling and analysis of Kaiser TDS plume in Ontario, California. Mercury. Percolation ponds. Perchlorate.
- Infiltration tests, groundwater modeling, domestic water use, Anaheim Hills, California.
- Analysis of landslide hydrologic balance in San Clemente, California.

### 2000-2001

- Stability of erosion control measures in San Diego Creek, Irvine, California
- Erosion analysis of slope failures in Dana Point, California
- Transport of DDT in surface water, groundwater, sediment, and atmosphere, M2000 Transport of DDT from Montrose Chemical Plant, Torrance, California
- Analysis of gasoline transport in Mission Valley, San Diego, California
- Analysis of DDT transport, in stormwater, near Montrose Plant, Torrance, California
- Groundwater transport of fuel, free product, in Mission Valley, San Diego, California.
- Surface and subsurface interface of DDT at Montrose Plant, Torrance, California.
- Groundwater effects, soil-water transport and slope failures in Dana Point, California

### 1998 - 2001 & 2007 – Present, Senior Consultant with *Earth Consultants International*.

- Work includes project management and project hydrogeologist duties. Other activities include business development and marketing. Projects include wastewater, oil field seepage and methane mitigation, dewatering for construction purposes, EIR development, water resources investigations, watershed studies, and a regional groundwater GIS study for Riverside County.
  - Retained by the City of Malibu to represent them in surface water suite.
  - Oceanographic-Hydrogeological analysis and modeling of tidal fluctuations, storm surge and impacts to a coastal developments wastewater discharge system.
  - Conducted regional groundwater study for the City of Malibu associated with a groundwater flow model of the downtown area. Includes field work, data analysis and modeling support.
  - Provided expert testimony for City of Malibu on local groundwater conditions.
  - Hydrogeological Characterization and modeling of subsurface wastewater discharge (mounding) – Malibu California.

- Hydrogeologic Characterization and testimony to wastewater discharge to subsurface – Malibu California.
  - Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for proposed wastewater treatment facility in downtown Malibu.
  - Hydrogeologic Characterization And Assessment Of Impacts Of Wastewater Discharge for Proposed Construction Of Thirteen Single-Family Residences Trancas Canyon Malibu, California.
  - Playa Vista Corporation – Groundwater and Methane Migration Investigation on Playa Vista Property, Los Angeles, California.
  - Environmental Impact Report - Geologic, Seismic and Hydrologic Sections of the Environmental Impact Report for the Proposed Sully-Miller Fieldstone Project, 6145 Santiago Canyon Road, in the City of Orange, California.
  - Safety Element of the General Plan, Riverside County.
  - Developed Safety Elements for Newport Beach, Brea, Glendale, and Pasadena.
  - Feasibility investigation to review mitigation options for active crude oil seeps (tar) and methane generation within the Santa Fe Energy Olinda oil field in Brea.
  - Groundwater study of Winter Canyon, Malibu, California for the purpose of determining the feasibility of using the canyon for wastewater disposal.
  - Groundwater study of 200 acres in preparing the Malibu Civic Center EIR.
- Santa Ana, California. Project consultant to *U.S. Envi-Tech, Inc.* Duties include market analysis and summary of product viability. Also charged with developing sampling protocols for Korean Government (river monitoring). This included a trip to Seoul, South Korea to give a three-day short course to the Environmental Management Corporation (Equivalent to US EPA).

**1996 – 1998 Senior Hydrogeologist for *SimulProbe Technologies.***

- Traveled throughout North America and Europe marketing various technologies. Promoted to head of marketing in Midwest and Southwest. Responsible for budgeting, supervising staff, project management, and making presentations to government officials and private contractors. Duties also included direct marketing to drilling firms and environmental consultants, supervising all sales personnel and marketing efforts; scheduling service calls and field operations; assisting with R&D; field training and site management.

**1995 – 1998**

- Kalamazoo, MI. Worked for the *GEM Regional Center, Western Michigan University.* Conducted water budget analysis for watershed located in Calhoun County.
- Kalamazoo, Michigan. Worked with the *Health Division of the Michigan Department of Environmental Quality* on well grouting issues surrounding public and private water supplies.
- Kalamazoo, Michigan. Worked with the *Michigan Department of Environmental Quality* on the Hydrogeological and Geochemical aspects of the Panelyte site. This involved the use of geophysics and geochemical analysis for the detection and mapping of possible contaminants.
- Ross Township, Michigan. Retained through *Western Michigan University* by the City of Kalamazoo, to determine the impact of a proposed wellfield on the surrounding surface water bodies (streams, lakes and wetlands).

**1993 - 1995**

- Minden, Michigan. Retained by *Michigan Peat Company* to evaluate peat reserves. Evaluation involved sampling and mapping the peat reserves for the purpose of litigation.
- Salem, Illinois. Retained by *Hi-Shots Aerial Photography Inc.*, to setup and demonstrate internet capabilities for small business.

- Michigan. Retained by *Superior Environmental Corp.* to conduct an EM-31 geophysical surveys. The surveys were designed to locate possible buried tanks in a downtown bank parking lot, a corner restaurant parking lot, fabrication/manufacturing buildings and a former car dealership.
- Schoolcraft, Michigan. *Alpha GeoSciences Inc.* (Through Department of Geology, Western Michigan University). Hired to run a hollow stem auger drill rig. Three 30-foot wells were installed.
- Kalamazoo, Michigan. *Golder Associates Inc.* (through the Institute for Water Sciences, Western Michigan University) retained to geophysically log wells located within the KL-landfill CERCLA site using a natural gamma radiation.
- Champaign/Urbana, Illinois. Conducted an aerial photographic survey of the Champaign/Urbana landfills to locate hot spots where possible sub-surface fires maybe burning. Contract was funded through the *Illinois State Geological Survey*.
- Ann Arbor, Michigan. Conducted aerial photographic survey of a contaminated wetland for *Alpha GeoSciences Inc.* of Kalamazoo, Michigan. Provided site maps of monitoring wells and sampling locations.

#### **1991 - 1993**

- Paris, France. Retained by *Littoral et Patrimoine* for projects in France and India. Evaluated coastal erosion and constructed possible solutions to ongoing erosion problems.
- Sandusky, Ohio. Designed sediment coring program along the Sandusky River and part of Lake Erie for project funded by the *Ohio Department of Natural Resources*. The sediment cores were used in defining the sediment input from the Sandusky River and Lake Erie on adjacent estuaries/marshes.
- Three Rivers, Michigan. Retained by *Reid and Reid Law Offices*, Kalamazoo, Michigan, to evaluate the effects of the construction of a golf course and adjacent buildings on the water quality of Lake Templene.
- Portage, Michigan. Designed and coordinated the work on an aeration pilot project on Austin Lake. This project involved bottom sampling, coring and sediment profiling. Collected and analyzed the sediment and water samples for the *Ramco Company*. Prepared an independent report on the success of the entire project.
- Ludington, Michigan. Assisted on the Department of Geology's state funded project involving erosion control monitoring of Undercurrent Stabilization systems.
- Michigan. Assisted the Western Michigan University Department of Geology on a state-funded project regarding erosion monitoring along Lakes Michigan and Huron.
- Wilmington, North Carolina and Plainwell, Michigan. Retained by Dr. Thomas Straw to analyze various meteorological parameters for a hydrology project in Wilmington, NC.
- Plainwell, Michigan. Retained by Dr. Thomas Straw to solve problems associated with a gravel pit operations.
- Sanibel Island, Florida. Retained by the *City of Sanibel Island, Florida* to evaluate coastal erosion along the Gulf Coast side of the island.

#### **1990 - 1991**

- Atlanta, Georgia. Retained as consultant by *Sutherland, Asbill & Brennan*, to address a wetland problem within one of *Mobil Land Development Company's* major developments. This included wetland hydrology, soil chemistry monitoring and aerial photographic interpretation.
- Benton Harbor, Michigan. Member of Scientific Party - Great Lakes Mapping cruise of eastern Lake Michigan (United States Geological Survey cruise no. NPTN91-1). The resultant sediment samples were split between WMU and the USGS allowing for research on shape analysis for possible finger printing.
- Western Michigan University, Institute for Water Sciences. Research assistant on a United States Geological Survey funded project along the Lake Michigan shoreline.

**1989-1990**

- Western Michigan University. Worked with the Department of Geology on small construction projects and consulted on a state funded project addressing shoreline erosion.

**1983 - 1989**

- Hutchinson, Minnesota, *3M Company*. Worked at various jobs for the 3M Company. These jobs ranged from heavy equipment operator to hazardous waste disposal to machine and computer database operator.

## TEACHING PHILOSOPHY

As a college professor, I have emphasized instructional methods that are both innovative and traditional. As a lecturer, I like to try and represent concepts and processes using the whiteboard, but I also structure the discussion using PowerPoint that I can place onto Blackboard for the student to review. PowerPoint presentations are difficult to pace and I find it necessary to work with the slide up for an extended time so the students can fully grasp the point or concept being made. I also like PowerPoint for quizzes as it allows me to walk and interact with the students. Drawing on the whiteboard sets a pace and forces a concentration on essential elements that I think gives the students the added advantage of really knowing what is critical to me and the subject. When I teach, I try to set small learning goals I can test and in that way quiz the student with writing and expression of ideas rather than digital responses. In the major's courses, I have the liberty of bringing my practical experiences to bear on the discussions and we can go to the field to observe phenomena that reinforce the teaching objectives. Even labs are often best with a field component. My goals for teaching are to try and get the student to understand the conceptual basis of the area of science we are studying and to let them fill in facts out of their own interest. Naturally, facts must be discussed to establish the meaning of some concepts but the importance of facts is secondary to understanding the concepts. What makes scientific concepts most meaningful is the relationship they have to a student's life. This is the part that is particularly fun for me. Showing how understanding geology gives a person a sense of stewardship is especially important and leads to many fun and learning based discussions with the students at all levels.

## TEACHING EXPERIENCE

- 2006–Present California State University, Fullerton, CA  
Associate Professor of Hydrogeology. Responsible for teaching lower division classes in Hydrogeology (GEOL 436); Physical Geology (GEOL 101-GE) and upper division classes in Groundwater Modeling; Environmental Sampling and Protocols; Well Hydraulics and Aquifer Analysis (GEOL 535T)
- 2000–2006 California State University, Fullerton, CA  
Assistant Professor of Hydrogeology. Responsible for teaching lower division classes in Hydrogeology (GEOL 436); Meteorology (GEOL 340-GE); Oceanography (GEOL 333-GE); Physical Geology (GEOL 101-GE) and Lab (GEOL 101L-GE) and upper division classes in Groundwater Modeling; Environmental Sampling and Protocols; Well Hydraulics and Aquifer Analysis (GEOL 535T); Research Methods in Geology (501); Geology Seminar (GEOL 590)
- 2001-Present Western Michigan University, MI  
Responsible for Summer Field Course in Hydrogeology. Taught 1-week graduate level field course(s). (1) Principles of Well Drilling and Installation; (2) Principles and Practices of Aquifer Testing; (3) Remediation Design and Implementation.
- 1999-2000 California State University, Fullerton, CA  
Part-time instructor. Responsible for Oceanography (GEOL 333) and Water Quality (GEOL 437).
- 1992-1996 Western Michigan University, MI  
Graduate Student Instructor responsible for Hydrogeology (Geo 435), Oceanography (Geol 333), Hydrogeology Summer Field Course (Geo 535 a, b, c, d, e and f). This field course consisted of six individual modules (40-Hour HAZWOPPER, Environmental Surface Geophysics, Principles of Well Drilling and Installation, Principles and Practices of Ground-Water Sampling and Monitoring, Principles and Practices of Aquifer Testing and Analysis, and Remediation Design and Implication). Other responsibilities included Construction Measurements and Layout through the Department of Engineering Technology. Responsible for the lab sequences only.



## Other Teaching Experience

- 1996-98 Instructor – *Eight-hour OSHA HAZWOPER* supervisor course (29 CFR 1910.120 (e)(3).  
1995 Hi-Shots International Conference. Taught short-course on environmental remote sensing utilizing a helium-filled tethered blimp. 10 individuals attended the course.  
1992 Kalamazoo, Michigan. Teaching Assistant for a course titled *Shoreline Geology and Processes*. Course sponsored by the Secondary Education of Michigan Summer (SEMS). This was a state-funded project. (30 students)  
1991 St. Joseph, Michigan, Berrien County. Teaching assistant for a course titled *Shoreline Geology and Processes* sponsored by the SEMS State funded project. (30 students)

## Developed CSUF-Departmental Short-Courses:

- Westbay Multiport Sampling (2004-09)
- CPT Field Demonstration on Quality Environmental Site Investigation. (In-cooperation with Gregg Drilling) (2004)
- Environmental Sampling Procedures and Practices (2003)
- Borehole and Well Logging Interpretation (Taught at Layne Christenson) (2003)
- Baroid Industrial Drilling Products - Drilling and Boring Fluids (2002)
- GIS Course I & II – What is GIS and how can it be utilized in research (2001)
- FEMA – Advanced HAZUS Training for GIS Professionals (2001)

## AWARDS, HONORS, SPECIAL QUALIFICATIONS

- NGWA 2009 McEllihiney Lecturer
- NGWA Groundwater Summit Co-Chair (2006); Committee member (2005, 2007 and 2008)
- CSUF – Student Association, Outstanding Academic Advisor (2003/04)
- CSUF – NSM Nominee for Outstanding Contributions to Student Success Award (2002/03 & 2003/04)
- Western Michigan University established a scholarship in my honor for the outstanding Geology Department Student. To be awarded annually starting Spring 1998.
- Western Michigan University, Department of Geology, Distinguished Service Award, 1997.
- Western Michigan University Research Fellowship 1991-92.
- IEEE OCEANS 92' student paper finalist.

## NATIONAL AND UNIVERSITY COMMITTEES

- Association of Ground Water Scientists and Engineers (a Division of NGWA) Vice-Chair, 2008-2010
- Association of Ground Water Scientists and Engineers (a Division of NGWA) Board Member, 2004-2008
- National Water Research Institute; Orange County Groundwater Monitoring Review Council; 2006 -
- NGWA Council for Planning, 2006 -
- Long Valley Hydrologic Advisory Committee, 2003 -
- National Groundwater Association – Professional Development Committee member, 2000 – (chair 2009-2010)
- National Groundwater Association – National Certification Committee member, 2002 - 2008
- California Groundwater Resource Association – State Meeting Committee member 2007/2008
- NSM, Service Learning, committee member, 2001 - 2007
- NSM, Tucker Wildlife Advisory Board, 2003 – 2007
- NSM, Career Opportunity Committee, 2004 - 2006
- CSUF, University Advancement Foundation, committee member, 2003-2005

**FUNDED GRANTS and CONTRACTS**  
**(CSUF total to date through 2008: \$ 2,590,000)**

**2008**

- Mojave Water Agency (\$160,000); *Grant Extension for work on Water Resource Evaluation and Mapping – Mojave Desert Region. (Centro Hydrologic Sub- area). Remote Sensing, geophysical survey of groundwater flow associated with bedrock faulting.*

**2007**

- Mojave Water Agency (\$280,000); *Grant Extension for work on Water Resource Evaluation and Mapping – Mojave Desert Region. (Alto and Centro Hydrologic Sub- area)*

**2006**

- Mojave Water Agency (\$384,000); *Grant Extension for work on Water Resource Evaluation and Mapping – Mojave Desert Region.(Oeste Hydrologic Sub- area)*

**2005**

- Mojave Water Agency (\$655,000); *Grant Extension for work on Water Resource Evaluation and Mapping – Mojave Desert Region.(Specifically the El Mirage, Harper Lake and Joshua Tree areas)*

**2004**

- Mojave Water Agency (\$470,000); *Grant Extension for work on Water Resource Evaluation and Mapping – Mojave Desert Region.(Specifically the Lucerne Valley Area)*

**2003**

- Mojave Water Agency (\$217,000); *Water Resource Research within the Mojave Desert. Part of this project is to development a GIS/Database inventory of all wells, groundwater elevations and hydrogeochemistry of each basin within the boundaries of MWA. Specific portions of the grant have been set aside to collect and analyze data from a 2,500 foot deep multiport monitoring well in the vicinity of Oro Grande Wash.*
- *Friend of the San Gabriel River (\$32,000); Citizens Monitoring Program Development and Implication. This was funded through a State of California Grant (Prop 50).*

**2002**

- Mojave Water Agency (\$57,405); *Groundwater Investigations to look at potential recharge areas throughout the Southern Mojave Desert Area. Establishment of digital well log inventory and bibliographic search of all documents pertaining to MWA water agency. CSUF was also charged with developing a key well program for Lucerne Valley based on groundwater basin recharge.*
- *CSUF Service-Learning Mini-Grant (\$1,500); The integration of Service Learning into Advanced Environmental Geology.*
- *Earth Consultants International, Inc. (\$3,000); Geologic Interpretation of borehole geophysics. Involves the gamma-ray logging and interpretation of subsurface geology.*

**2001**

- *CSUF Service-Learning Mini-Grant (\$3,000); The integration of Service Learning into Advanced Hydrogeology Sampling.*
- *San Elijo Lagoon Conservancy (\$35,000); Sediment Quality and Depositional Environment Of San Elijo Lagoon.*
- *Los Angeles Regional Quality Control Board (\$31,000); The Santa Clara River Watershed; GPS and Observational Report on the Santa Clara River*
- *Grant to develop a web based model on Distance Calibration of Earth Images (\$800). This was part of Advanced Technology in Science Learning Environments Grant through the Department of Biology.*
- *CSUF Summer Support Assistance for Summer (\$5,000); This was summer support money to provide assistance in the sampling of water and soil throughout Orange County, California.*

**2000**

- Los Angeles Regional Quality Control Board (\$25,000); *The San Gabriel River Watershed; GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach.*

**GRANTS and CONTRACTS IN-REVIEW**

- Long Valley Hydrologic Committee – Mammoth Pacific Corporation (\$75,000), *Hydrologic Monitoring In Long Valley Caldera* (Co-PI: Laton W.R. and Foster J.)

**IN-KIND DONATIONS for Research / Projects**

- Conference table and chairs (\$500); Donated by URS Corporation.
- Generator (\$2,500); Donated by Aquifer Science and Technology.
- Ford F-250 Pickup (\$8,000); Donated by URS Corporation.
- Deep Multiport Westbay Monitoring Well (\$300,000); A deep multiport monitoring well was installed on the northwestern portion of campus in order to develop a long-term monitoring program for groundwater in the north Orange County groundwater basin. The well was installed with sampling ports at 6 different zones to a total depth of 850 feet below ground level. The entire project was donated.
- Software (Waterloo Hydrogeologic – Visual Modflow, AquiferTest and Aquachem) (\$5,500).
- Miscellaneous equipment, supplies and laboratory analysis has been donated for a multitude of different projects (\$50,000). These donations have been used for student thesis research and classroom activities.
- Arboretum Groundwater Study (approximately \$10,000); Drilling and installation of 3 monitoring wells for the purpose of developing curriculum for general hydrogeology. These wells are part of a larger project to interpret the hydrogeology of CSUF and the local area.
- Sampling Truck (value \$30,000). The vehicle is specially designed to collect water samples downhole – equipped with twin generators and large capacity hydraulic system. Donated by Earth Technologies, Inc.

## **PROFESSIONAL PUBLICATIONS, ABSTRACTS, PRESENTATIONS and POSTERS**

### **Peer-Reviewed Publications (Published, Accepted, Submitted)**

1. Laton, W.R., 2006. *Building Groundwater Monitoring Wells on Campus – A Case Study and Primer*. Journal of Geoscience Education (Vol. 54, No. 1), pgs 50-53.
2. Laton, W.R., Whitley, R.J., and Hromadka II, T.V., 2006. *A Methodology for Identifying the Potential Source of Groundwater Contamination in a Multiple Source Problem Using a New Mathematical Approach*. Hydrogeology Journal. DOI 10.1007/s10040-006-0106-4
3. Laton, W.R., Hromadka II, T.V. and Picciuto J.A., 2006. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. Hydrological Science and Technology, Volume 22, No.1-4.
4. Laton, W.R., 2004. *Seepage, Flow and Chemical Partitioning Between the City of Parchment Wellfield and the Kalamazoo River, Southern Michigan*. Journal of Floodplain Management (Vol. 4, No. 1), pgs 11-32.
5. Foster, J.F., Laton, W.R., and Figueroa, O. *Sudden Late Holocene closure of San Elijo Lagoon, northern San Diego County, California*. Environmental and Engineering Geosciences (in review)

### **Publications in Preparation**

1. Laton, W.R., and Hromadka II, T.V. *Statistical evaluation of residential overwatering in Southern California*. To be submitted to Hydrogeology Journal in fall 2009.
2. Laton, W.R., and Robbins, E. *Groundwater And Surface Water Study Taylor Yard And Vicinity, Los Angeles, California*. To be resubmitted to Association of Engineering Geologists early 2009.
3. Laton, W.R., Foster, J., and Blazevic, M. *Hydrogeological Investigation of a Closed Alluvial Basin: Lucerne Valley, San Bernardino County, California*. To be submitted to Hydrogeology Journal in mid 2009.

### **Guidebooks, Full Paper Proceedings and Articles**

1. Laton, W.R., 2005. The Cutting Edge “Teaching Hydrogeology in the 21<sup>st</sup> Century”. NGWA-AGWSE News and Views. (article September, 2005)
2. Jenson, J. and Laton, W.R., 2005. Second Annual Groundwater Summit. NGWA-AGWSE News and Views. (article September, 2005)
3. Laton, W.R., 2004. *Building Ground Water Monitoring Wells on Campus: A Case Study and Primer*. NGWA-AGWSE News and Views. Vol. 1, Issue 1.
4. D. Bausch, E. Gath, T. Gonzales, and R. Laton, 2000. *GIS-Based Hazard Mapping and Loss Estimation in the Safety Element of the General Plan for Riverside County, California*. California: EERI 6<sup>th</sup> International Conference on Seismic Zonation, Riverside County, California.
5. Laton, W.R., <sup>1</sup>Perez, R., and Bausch, D., 2000. *New Hazard Maps for Riverside County, California*. San Diego Association of Geologists annual field trip guidebook.
6. Laton, W.R., 1992. *Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping*. OCEANS '92, Newport, Rhode Island.

### Abstracts, Presentations and Posters

1. Laton, W.R., 2009. *Boring Logs – What’s Important and What’s Not: A Scientific Viewpoint*. NGWA National McEllhiney Lecture 2009, Sponsored by NGWAREF. (Invited 30+ presentations throughout North America)
2. Foster, J.H. and Laton, W.R., 2008. *Groundwater Resources Sustainability in the Victorville Area: Results from the Oro Grande Wash Recharge Pilot Study*. Association of Engineering Geologists. (abstract/presentation)
3. \*<sup>1</sup>Dailey, D., Laton, W.R., and Foster, J.H., 2008. *New Detailed Model for El Mirage Subsurface Geology, El Mirage, CA*. GRA Annual Meeting. (abstract/poster)
4. \*<sup>1</sup>Velarde, J.C., Foster, J.H., and Laton, W.R., 2008. *The Geology of Spring Systems in the Vicinity of White Mountain/Silver Creek, Lucerne Valley, San Bernardino County California*. GRA Annual Meeting. (abstract/poster)
5. \*<sup>2</sup>Monzon, E. and Laton, W.R., 2008. *Estimating Applied Irrigation for Urban Landscapes in South Coast California, using Theoretical and Conventional Means*. GRA Annual Meeting. (abstract/poster)
6. Lizzi, A., Laton, W.R., Foster, J.H., 2008. *Evaluation of the Potential Groundwater Resources of A Confined Aquifer, San Diego County, California*. NGWA Groundwater Summit (abstract/presentation)
7. Laton, W.R., 2006. *Surface Water and Ground Water: How the Two Interact*. NGWA National Meeting. (Invited - presentation)
8. \*<sup>1</sup>Cruikshank, M.J., Foster, J.H. and Laton W.R., 2006. *Presence of Deep High Quality Ground Water in El Mirage Valley, San Bernardino County, California*. NGWA Groundwater Summit (abstract/poster)(Outstanding Research Award)
9. \*<sup>2</sup>Surko, T., Armstrong, P.A. and Laton, W.R., 2006. *Gravity Survey of Lucerne Valley Ground Water Basin, Mojave Desert, Southern California: Implications for Basin Geometry and Structure*. NGWA Groundwater Summit (abstract/presentation)
10. \*<sup>2</sup>Barthel, P.S. and Laton, W.R., 2006. *Desert Studies Center: A Hydrogeologic Model and Water Budget*. NGWA Groundwater Summit (abstract/presentation)
11. Laton, W.R., 2005. *Methods to Determine Basin Yield*. GRA Groundwater Resources Series – Basin Yield and Overdraft: Scientific and Legal Perspective. (Invited - presentation)
12. Laton, W.R., 2005. *Borehole Logging from Sample Collection to Borehole Geophysics*. Presented at NSF Workshop on “Teaching Hydrogeology in the 21<sup>st</sup> Century”. (presentation/lab write-up)
13. Laton, W.R., 2005. *Water Budget Analysis – A Story of Two Arid Region Groundwater Basins*. CEA-Crest Symposium on Arid Hydrology. (abstract/presentation)
14. \*Laton, W.R., Hromadka, T., Yeager, M., Picciuto, J. and Whitely, B., 2005. *A New Method for Estimating Runoff Quantities for Flow and Volume-based BMP Design*. CASQA Conference. (abstract/presentation)
15. \*<sup>2</sup>Lizzi, A.L., Laton, W.R. and Foster, J., 2005. *Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
16. \*<sup>2</sup>Boeke, B., Laton, W.R. and Foster, J., 2005. *Groundwater Potential for Harper Dry Lake: Implications for Ground Water Availability in Harper Valley, San Bernardino County, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
17. \*<sup>2</sup>Kolstad, K. and Laton, W.R., 2005. *Hydrocarbon Soil Vapor: Actual vs Predicted*. NGWA 2005 Groundwater Summit. (abstract/poster)
18. \*<sup>1</sup>Napoli, N. and Laton, W.R., 2005. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
19. \*<sup>2</sup>Perez, R. Foster, J. and Laton, W.R., 2005. *The Redefining of a Groundwater Basin, Alto Sub Basin, Southwestern Mojave Desert, California*. NGWA 2005 Groundwater Summit. (abstract/poster)

20. <sup>\*2</sup>Surko, T.L., Armstrong, P. and Laton, W.R., 2005. *Gravity Survey of Lucerne Valley Groundwater Basin, Mojave Desert, Southern California: implications for basin geometry and structure*. NGWA 2005 Groundwater Summit. (abstract/poster)
21. <sup>\*1</sup>Blazevic, M., <sup>1</sup>Napoli, N., Foster, J. and Laton, W.R., 2004. *Subsurface Geologic Investigation of a closed Alluvial Basin: Lucerne Valley, San Bernardino County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
22. <sup>\*1</sup>Napoli, N., <sup>1</sup>Blazevic, M., Laton, W.R. and Foster, J., 2004. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
23. <sup>\*2</sup>Perez, R., Foster, J. and Laton, W.R., 2004. *Just how deep is it?; Alto Deep Well and its impacts to Alto Groundwater Sub-Basin Geology*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
24. <sup>2</sup>Hunt, S. and <sup>\*</sup>Laton, W.R., 2004. *Update on Geochemical Analysis of the Central Basin, Los Angeles County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
25. <sup>\*2</sup>Haj-Manouchehri, D. And Laton, W.R., 2003. *Water Quality in Relation to Watershed Management in the Lower San Gabriel River, Southern California*. WRI conference (abstract/poster)
26. Laton, W.R., 2003. *Lessons Learned; Groundwater Flow Model – Taylor Yard, Los Angeles*. South Coast Geological Society. October 6, 2003. (Invited - presentation)
27. <sup>\*</sup>Laton, W.R. and <sup>1</sup>Dolmat, J., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. National Ground Water Conference. (abstract/TIPS)
28. <sup>2</sup>Figuroa, O. and <sup>\*</sup>Laton, W.R., 2003. *Ground Water Modeling of a Coastal Aquifer Malibu, California*. National Ground Water Conference. (abstract/TIPS)
29. <sup>\*2</sup>Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Water Level Monitoring, Lower Borrego Canyon Wash, Irvine CA*. National Ground Water Conference. (abstract/TIPS)
30. <sup>\*2</sup>Hasegawa, S. and Laton, W.R., 2003. *Risk Assessment of Point and Non Point Source Pollution on Water Resources along the Santa Ana River*. California Groundwater Conference. (abstract/poster)
31. <sup>\*1</sup>Dolmat, J. and Laton, W.R., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. California Groundwater Conference. (abstract/poster)
32. <sup>\*2</sup>Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Precipitation Induced Recharge Data Lower Borrego Canyon Wash, Orange County California*. California Groundwater Conference. (abstract/poster)
33. <sup>2</sup>Hunt, S. and <sup>\*</sup>Laton, W.R., 2003. *Geochemical Analysis of the Central Basin, Los Angeles County, California*. California Groundwater Conference. (abstract/poster)
34. Laton, W.R., 2002. *Taylor Yard and Los Angeles River, Preliminary Groundwater and Surface Water Study Groundwater Model of Taylor Yard and Vicinity Los Angeles, California*. NGWA National Meeting. (abstract/poster)
35. <sup>1</sup>Otto Figuroa and <sup>\*</sup>Laton, W.R., 2002. *Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California*. NGWA National Meeting. (abstract/poster)
36. <sup>\*</sup>Laton, W.R., <sup>2</sup>Sean Hunt, and Foster, J., 2002. *The Impact of Groundwater – Surface Water Interaction on Contaminant Distribution, San Elijo Lagoon, California*. NGWA National Meeting. (abstract/poster)
37. Laton, W.R., 2002. – *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy. (Invited - presentation)

38. Laton, W.R., 2001. Distance Calibration of Earth Images - To design and develop a Web delivered lesson showing an Advance in Information Technology that can be used in a Science Learning Environment for In-service Teachers (online lesson plan).
39. Laton, W.R., 2001. *The Role of Groundwater in Geologic Hazards*. California Science Academy (CEA-Crest). (abstract/presentation)
40. Laton, W.R., 2001. *Natural Hazards Mapping, Thailand*. Thailand Geological Survey. (presentation)
41. Laton, W.R., 2001. *Subsidence evaluation and assessment, Bangkok, Thailand*. Thailand Geological Survey. (presentation)
42. \*Laton, W.R., \*<sup>1</sup>Perez, R., and \*<sup>1</sup>Figuroa, O., 2000. *Natural Hazard Mapping – A GIS Approach*. CSUF Geology Department.
43. Laton, W.R., 2000. *Natural Hazards Assessment of Temecula, California*. San Diego Association of Geologists annual field trip. (presentation)
44. \*Sauck, W. A., Laton, W.R., <sup>2</sup>Seng, D.L., and <sup>2</sup>Vandereide, M.A., 2000. *Ground-penetrating radar investigations of nearshore sediments of eastern Lake Michigan*. IAGLR 2000.
45. Laton, W.R., 1999. *Watershed Management and Sampling Protocol*. Korean Ministry of Environment and Environmental Management Corporation short course. (Invited - presentation)
46. Laton, W.R., 1999. *Environmental Sampling – what, when and why*. Port of Los Angeles, Environmental Group. (Invited - presentation)
47. Laton, W.R., 1998. *Single Point Pneumatic Slug Test, Soil Vapor Extraction (SVE) Testing During Initial Site Investigation*. Hazardous Waste Section, SMARTech '98, Raleigh, NC. (abstract/presentation)
48. Laton, W.R., 1998. *SimulProbe® Environmental Core Barrel*. EPA National Site Assessment Conference. Denver, CO. (Invited - presentation)
49. \*Marcus, D.L., <sup>2</sup>Bonds, C.L. and Laton, W.R., 1997. *Rapid Screening using the SimulProbe Multimedia Sampler - Case Histories and Future Directions*. New England Environmental Exposition. (abstract/presentation)
50. \*<sup>2</sup>Laton, W.R., <sup>2</sup>Hascall, A.P., <sup>2</sup>Atekewana, E.A., Hampton, D.R., 1996. *Seepage Meter Spatial and Temporal Variability in the Study of Groundwater Interaction With Surface Water Features*. American Geophysical Union, San Francisco, CA. (abstract/presentation)
51. <sup>2</sup>Laton, W.R., 1996. *Well Grouting Research*. Michigan Environmental Health Association, Ground Water Conference, Thompsonville, MI. (Invited - presentation)
52. <sup>2</sup>Laton, W.R., 1996. *SimulProbe Sampling in Contaminated Areas*. University of Michigan Summer Hydrogeology Field Course, Wortsmith Research Center, MI. (demonstration/presentation)
53. \*Barnes, D.A., <sup>2</sup>Kovacich, M.S., <sup>2</sup>Limez, S., and <sup>2</sup>Laton, W.R., 1995. *Error Analysis in Great Lakes Beach Profile Surveying Techniques*. Canadian Coastal Conference, Dartmouth, Nova Scotia. (abstract/presentation)
54. <sup>2</sup>Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Colloquium on Environmental Earth Science, Western Michigan University, Kalamazoo, MI. (presentation)
55. <sup>2</sup>Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Hi-Shots International Conference, Saint Louis, Missouri. (Invited - presentation)
56. \*Mackey, S.D., Guy, D.E., <sup>2</sup>Laton, W.R., and <sup>2</sup>Kovacich, M., 1994. *Geologic Framework of an Eroded Lake Erie Coastal Marsh - Metzger Marsh, Ohio*. North-Central Geological Society of America, Kalamazoo, Michigan. (abstract/presentation)
57. \*Vincent, R.K., <sup>2</sup>Laton, W.R. and <sup>2</sup>Sattler, J., 1993. *Detailed Modeling of Solid Waste Landfill Surface Water Run-off from High Resolution Elevation Data Automatically extracted From Stereo Photos Taken by a Camera on a Tethered Balloon Platform*. Association of Engineering Geologists, San Antonio, Texas. (abstract/presentation)
58. <sup>2</sup>Laton, W.R., 1993. *Site Characterization and Mapping Utilizing a Tethered Balloon System*. HI-SHOTS International Convention, Saint Louis, Missouri. (Invited - presentation)

59. <sup>2</sup>Laton, W.R., 1992. *Coastal Processes and Use of a Blimp*. Shoreline Erosion and Coastal Processes in Berrien County, Lake Michigan College Environmental Center, St. Joseph, Michigan. (abstract/presentation)
60. \*<sup>2</sup>Laton, W.R. and Straw, W.T., 1992. *Small-Scale Coastal Cells; Identification and Mapping*. First Thematic Conference, Remote Sensing for Marine and Coastal Environments, New Orleans, Louisiana. (abstract/poster)
61. <sup>2</sup>Laton, W.R., 1991. *Undercurrent Stabilization Anchor Systems at Tawas on Lake Huron and Douglas on Lake Michigan - A One-Year Study*. Michigan Academy of Science, Ypsilanti, Michigan. (abstract/presentation)

<sup>1</sup>Undergraduate Student

<sup>2</sup>Graduate Student

\* Presenter



## PUBLIC REPORTS

1. Foster, J., Laton, W.R., et. al., 2008. *Geologic Map Series of Mojave Region*. (750, 500, 250, 24' and 15'). Mojave Water Agency.
2. Laton, W.R., Foster, J., et. al., 2007. *Oeste Hydrologic Sub-basin Report*. Mojave Water Agency.
3. Hromadka, II, T.V., Laton, W.R. and <sup>2</sup>Perez, R., 2006. *Hydrologic Data Report October 17-21, 2004 Storms*. Orange County Flood Control District.
4. Laton, W.R., Foster, J., et. al., 2007. *Groundwater Atlas of Oeste Hydrologic Sub-basin*. Mojave Water Agency.
5. Laton, W.R., Foster, J., <sup>2</sup>Ebbs, V., <sup>2</sup>Blazevic, M., and <sup>1</sup>Napoli, N., 2007. *Harper Lake Hydrologic Sub-basin Report*. Mojave Water Agency.
6. Laton, W.R., <sup>1</sup>Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Baja Hydrologic Sub-Basin to Afton Canyon Report*. Mojave Water Agency.
7. Laton, W.R., <sup>2</sup>Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Este to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
8. Laton, W.R., <sup>2</sup>Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Oeste to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
9. Laton, W.R., <sup>2</sup>Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Alto to Centro Hydrologic Sub-Basins Report*. Mojave Water Agency.
10. Laton, W.R., <sup>1</sup>Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Centro to Baja Hydrologic Sub-Basins Report*. Mojave Water Agency.
11. Hromadka, II, T.V., Laton, W.R., and Picciuto, J.A., 2005. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. San Bernardino County Flood Control District.
12. Laton, W.R., Foster, J., et. al., 2004. *Este Hydrologic Sub-basin Report*. Mojave Water Agency.
13. Laton, W.R., Foster, J., et. al., 2004. *Groundwater Atlas of Este Hydrologic Sub-basin*. Mojave Water Agency.
14. Laton, W.R., et. al., 2004. *San Gabriel River Watershed Atlas*. Friends of the San Gabriel River.
15. Laton, W.R., et. al., 2004. *San Gabriel River Watershed QAPP and Sampling Manual*. Friends of the San Gabriel River.
16. Laton, W.R., <sup>2</sup>Kendall, D. and <sup>2</sup>Lizzy, A., 2004. *Drilling Methods and Materials*. On-line course material for NGWA. (in review)
17. <sup>1</sup>Blazevic, M. and Laton, W.R., 2004. *Mojave River Stream Gauging*. Mojave Water Agency
18. Laton, W.R., 2002. *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy.
19. Laton, W.R. and Foster, J., 2001. *Sediment Quality and Depositional Environment Of San Elijo Lagoon, San Diego County, California*. San Elijo Nature Conservancy and Fish and Wildlife Service.
20. Laton, W.R. and Foster, J., 2001. *Santa Clara River Watershed Inventory*. Los Angeles Regional Water Quality Control Board.
21. Laton, W.R. and Foster, J., 2000. *The San Gabriel River Watershed GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach*. Los Angeles Regional Water Quality Control Board.
22. Straw, W.T., <sup>2</sup>Hascall, A.P., <sup>2</sup>Laton, W.R., and <sup>1</sup>Dalman, M., 1997. *Groundwater - Surface Water Interaction Study in Ross Township*. City of Kalamazoo, Michigan.
23. Straw, W.T. and <sup>2</sup>Laton, W.R., 1993. *WMU Austin Lake Aeration Feasibility Study Evaluation*. City of Portage, Portage, Michigan.
24. Straw, W.T., <sup>2</sup>Wardwell, D.A. and <sup>2</sup>Laton, W.R., 1992. *An Evaluation of Undercurrent Stabilization Anchor System Installation at Douglas and Tawas City, Michigan*. Michigan Department of Natural Resources.

<sup>1</sup>Undergraduate Student

<sup>2</sup>Graduate Student

**SUPERVISED COMPLETED THESES**

<b>Bachelors (BS)</b>	<b>Student Name</b>	<b>Year</b>	<b>Degree</b>	<b>Thesis Title</b>
	Daley, Dale	2008	BS	Subsurface Mapping of the El Mirage Groundwater Barrier, San Bernardino County, California
	Cruikshank, Michael	2006	BS	Hydrogeological Investigation of a Open Alluvial Basin: Oeste Hydrologic Sub-basin, San Bernardino County, California
	Dolmat, Joan	2006	BS	Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting
	Blazevic, Mike	2005	BS	Hydrogeological Investigation of a Closed Alluvial Basin: Lucerne Valley, San Bernardino County, California
	Napoli, Nick	2005	BS	Change In Groundwater Storage in the Lucerne Valley Groundwater Sub-Basin — 1954 To 2002, Lucerne Valley, California
	Brendle, Christine	2004	BS	Remediation of Soil and Groundwater at a Former Service Station.
	Evans, Rachel	2003	BS	Water Quality Analysis - Yellowstone National Park
	Thomas, Sean	2003	BS	Dewatering Plan for the El Toro Area.
	Wiles, Steffy	2002	BS	Angels Camp - Gamma Ray Logging Examination and Correlation.
	Figuroa, Otto	2002	BS	Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California.
	Brand, Randy	2002	BS	Hydrogeologic and Geologic Considerations for Selected sites near the Santa Margarita, Upper Ysidora, and Lower Ysidora Groundwater Basins in Southern California.
	Vortis, Kevin	2001	BS	Geologic History of San Elijo Lagoon San Diego County, California.
	Rashidi-Fard, Shaghayegh	2001	BS	Water Quality Testing and Monitoring Program at the Santa Rosa Ecological Reserve.
Fields, David	2001	BS	Orange County Groundwater Contour Maps for 2000.	

<b>Masters (MS)</b>	<b>Student Name</b>	<b>Year</b>	<b>Degree</b>	<b>Thesis Title</b>
	Monzon, Eric	2008	MS-Enst	Estimating Applied Irrigation for Urban Landscapes in South Coast Southern California, Using Theoretical and Conventional Means
	Barthel, Peggy	2008	MS	Water Budget and Hydrogeologic Model of Spring Flow at Limestone Hill, Zzyzx Desert Studies Center
	Ebbs, Veva	2007	MS-Enst	Groundwater flow into Harper Lake, California
	Kolstad, Kenneth	2007	MS	Analysis of a Steady-State Model: Prediction of Trichloroethylene Vapor Concentration, Using Known Dissolved Phase Concentration
	Lizzi, Anthony	2007	MS	Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California
	Patschull, Eric	2007	MS	Evidence of a North Projecting Ancient Boulder Thalweg in Latest Quaternary Deposits of the Santa Ana River, Orange County, California
	Hunt, Sean	2006	MS	Artificial Recharge as Possible Causes of Observed Long –Term Change in Transmissivity for the Aquifers of the San Pedro Formation in the Central Basin of the Greater Los Angeles Basin, California
	Williams, Steve	2006	MS	Hydrogeologic Investigation of a Shallow Aquifer System with Emphasis on Precipitation Induced Groundwater
	Nguyen, Chinh	2005	MS-Enst	Application of Convex Hull in Identifying Pollution Sources in the Central and West Coast Basins, Los Angeles County, California.
	McCurdy, Jim	2004	MS-Enst	Water Chemistry and Groundwater Flow for the San Bernardino Mountains.
	Versluis, Patrick	2004	MS-Enst	The Fate of Perchlorate: A Look at Perchlorate Entering Orange County's Groundwater.
	Hajmanouchehri, Daneh	2004	MS-Enst	Water Quality In Relation To Watershed Management In The Lower San Gabriel River, Southern California.
	Yuen, Pansy	2004	MS-Enst	Performance Assessment On Water Quality And Biological Effects Of Urban Stormwater Runoff, Norco Hills Wetland, Riverside County, California.
	Figueroa, Otto	2003	MS	Groundwater Flow Model of a Coastal Aquifer, Malibu, California.
	Hasegawa, Shuichi	2003	MS-Enst	Environmental Hazard Risk Assessment on Water Resources along the Santa Ana River.
	Kerza-Kwiatecki, Paul	2003	MS-Enst	Monitoring the Rocky Inter-tidal Zone of Crystal Cove State Park; Creation of an interactive GIS bio-database.
	Springer, Ben	2003	MS-Enst	The Importance of Wetland Monitoring: A Case Study of a Restored Wetland in Norco, California.
	Rosales, Tom	2002	MS-Enst	An examination of the benefits and costs to implement the Municipal Storm Water Permit for Orange County – similarities and differences between coastal and inland cities.
	Schmucker, Kelly	2002	MS-Enst	Water Quality of a Wetland A Case Study In Norco, CA.
Eckhart, Lance	2001	MS-Enst	Vertical Gradient Investigation of a Southern California Landfill.	

### **ATTENDED SHORT-COURSES, WORKSHOPS**

- AAPG - Environmental Regulatory Course
- Advanced Technologies for Accelerated Natural Attenuation
- Applied Microbiology - Understanding Bacterial Augmentation, Montreal, Canada
- Baroid Industrial Drilling Products - Drilling and Boring Fluids (Workshop)
- CWEA – How to Start, Perform and Complete a Successful Public Works Water/Wastewater Project
- EPA - Bioremediation of Hazardous Wastes: Research, Development, and Field Evaluations
- EPA - Natural Attenuation; EPA - Statistical Analysis of Ground Water Data (GRITSTAT)
- EPO/GRA – Aquifer Remediation: Bioremediation and Oxidation Technologies
- FEMA – Advanced HAZUS Training for GIS Professionals
- Managing Toxics in Michigan - Air, Waste and Remediation (Workshop)
- MGWA & MDPH - Ground Water & Wells Fundamentals
- Michigan Citizens Conference/Workshop on Great Lakes Areas of Concern
- NGWA - Remediation of Ground Water Contamination
- NSF – The Cutting Edge “Teaching Hydrogeology in the 21<sup>st</sup> Century”
- Protecting Water Quality through Land Use Planning & Zoning (Workshop)
- Reducing Risk in High Seismic Hazard Zones
- Seismic Reflection/Refraction Interpretation (Workshop)

### **AFFILIATIONS**

- American Geophysical Union
- American Society for Photogrammetry and Remote Sensing
- California Hydrological Society
- Groundwater Resources Association of California
- International Association of Hydrogeology
- National Ground Water Association

### **VOLUNTEER WORK**

- CSUF – Gerontology Seminar Series (2005)
- Boy Scouts of America Troop, Identification of Rocks (2000-08)
- NGWA – Developed on-line Well Construction and Development Course (2004)
- El Dorado Nature Center - Provided expertise for a variety of activities.
- National Sanitary Foundation - Worked on task force to rewrite standards for water well aids material.

### **CSUF – Department of Geosciences Earth Science Week (2001 through 2003):**

Coordinated Department of Geological Sciences Earth Science Week activities.  
Activities included: Special Speaker Series; Career Day Activities; Field Trips to Zzyzx Field Station and Sierra Nevada Aquatic Research Laboratory – Mammoth Lakes; guidebooks.