

Agenda

The Physical Waterscape - Management and Planning *P. Hubbard*

- Surface water resources
- Groundwater resources
- Flood and water supply management
- Regulators and stakeholders
- Technical developments and challenges
- Effects of climate change on management strategies

Surface Water Rights: Quantity and Usage *S. Nastich*

- Obtaining water rights in California – Permitting and reporting
- Statutory and regulatory limits on the exercise of water rights
- Interstate water compacts
- Water transfers
- The effects of drought and climate change
- Public trust

Groundwater Rights: Management, Regulation, and Exercise *D. Cameron*

- California law of groundwater rights
- Key concepts in groundwater law
- Intervention, management, and the role of “undesirable results”
- Sustainable Groundwater Management Act
- Recent developments

Complying with Water Quality Laws and Regulations *W. Manley*

- State and federal water quality regulations
- Industrial wastewater regulation
- Stormwater permitting and enforcement
- Special topics - agricultural runoff, public water supplies
- Enforcement
- Waters of the U.S.

Meeting Water Needs of Business and Industry *S. Warner*

- Water supply
- Long term water reliability for industry, manufacturing, energy production
- Transactional challenges
- Potential risks to groundwater and surface water
- Water quality Issues
- Developing regulatory policies
- Water use in renewable energy production
- Pending litigation

Ethical Considerations in Water Law and Resource Development *S. Nastich, S Warner*

- Are there human rights to water?
- Determining ethical uses of water and how to use water ethically
- Water theft and water trespass ethics problems
- Ethics considerations for technical professionals in water development projects

Water Laws, Regulations and Recent Developments
San Jose, CA - Wednesday, May 16, 2018



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Learning Objectives

You'll be able to:

- Understand** statutory and regulatory limits on the exercise of water rights.
- Learn** about state and federal water quality regulations and enforcement.
- Consider** ethical issues in water law, regulation and water development projects.
- Examine** groundwater depletion, recharge, and the Sustainable Groundwater Management Act.
- Discuss** business and industry water needs and challenges.
- Explore** ethical uses of water, and consider ethics issues in water development projects.



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- Understand** statutory and regulatory limits on the exercise of water rights
- Examine** groundwater depletion, recharge, and the Sustainable Groundwater Management Act
- Discuss** business and industry water needs and challenges
- Study** management and planning

- issues related to surface water and groundwater resources
- Learn** about state and federal water quality regulations and enforcement
- Consider** ethical issues in water law and water development projects

Continuing Education Credits

Attorneys
6.5 California CLE Hours
Including 1.0 Ethics Hour

Floodplain Managers
6.5 ASFPM CECs

California Engineers & Geologists
Non-Credit Continuing Ed.





Patrick Hubbard, PG, CEG is a principal with Aqueous Pathfinding, Inc. and a consulting principal to Langan. He has 30 years of professional experience performing and managing environmental projects, particularly related to water supply and water supply wells. Mr. Hubbard has worked closely with regulatory agencies and attorneys, evaluated well operations and contaminant impacts, calculated contaminant transport and fate to water supply wells and streams, evaluated potential impacts relative to water supply reservoirs, and directed aquifer analysis and field testing. He also provides expert witness testimony and litigation support. Clients include water districts; local governments; law firms; and the semiconductor, steel, petrochemical, and transportation industries.

Summer L. Nastich is a litigator, counselor, scientist, engineer, and arbitrator specializing in environmental, construction, and land use law, including any necessary litigation. Ms. Nastich has a life-long passion for learning and problem solving. She received three undergraduate degrees (Oceanography, Biology, and Zoology), then a J.D. degree (*cum laude*), and then Master's degree in Environmental Engineering. Her thirst for gaining and applying knowledge led her to an exciting law practice that incorporates all of her book learning, the knowledge she gained working as an environmental consultant, and the knowledge and experience she's assimilated over more than a decade of practicing law.

Seminar Information

Four Points by Sheraton San Jose Airport 1471 North 4th Street San Jose, CA 95112 (408) 452-0200	Registration 8:00 - 8:30 am
Tuition \$279 for individual registration \$259 for three or more registrations.	Morning Session 8:30 am - 12:00 pm
	Lunch (On your own) 12:00 - 1:00 pm
	Afternoon Session 1:00 - 4:30 pm

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Ms. Nastich's interactions with technicians, experts, courts, clients, and adversaries are seamless, as she speaks all of their languages. Her education and experience also allow her to quickly synthesize technical issues and analyze data and information to unearth solutions to meet each client's unique needs.

David E. Cameron is a water resources attorney with Downey Brand LLP whose practice is focused on securing and protecting water rights, the purchase and sale of water rights, water supply assessments, groundwater management, and related environmental and endangered species issues. His practice includes litigation in state and federal courts, administrative proceedings before the State Water Resources Control Board, and public agency representation, as well as transactional water-related matters. Mr. Cameron enjoys tackling complex legal issues and providing practical solutions to clients, which include water districts, irrigation districts, cities, counties, and agricultural interests large and small.

Wendy L. Manley is a partner at Wendel Rosen Black & Dean LLP in Oakland. For 20 years, Ms. Manley's practice has focused on environmental permitting, compliance counseling, and litigation for both public and private parties, with particular emphasis on stormwater regulation, permitting, compliance and enforcement under the federal Clean Water Act and related state legislation. Ms. Manley has provided

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 CLE hours, including 1.0 ethics hour to California attorneys. HalfMoon Education is an approved CLE provider in California (Provider No. 8370).

This course offers 6.5 non-credit continuing education hours to California professional engineers and geologists. It may qualify for mandated continuing education credit in other states. Refer to specific state rules to confirm eligibility, or contact HalfMoon Education for assistance.

The Association of State Floodplain Managers has approved this event for 6.5 CECS.

Attendance will be monitored and reported, as required. Attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

clients with legal counsel in a variety of contexts, including storm water program development, implementation and auditing; ordinance drafting; tenant leasing and compliance; group monitoring of industrial storm water management; and agency negotiations.

Scott D. Warner, a principal with Ramboll Environ, has 30 years of consulting experience in hydrogeology and water resources development, design/assessment of groundwater remediation strategies, and natural resources planning. He has provided litigation support and expert witness services for cases involving hydro-geochemistry, groundwater remediation and remediation cost recovery, and he has completed projects in North and South America, Asia, and Europe. Mr. Warner has authored or co-authored more than 50 publications on water resources, climate impacts, groundwater remediation, hydraulics and geochemistry for both peer-reviewed journals and conference proceedings, has provided course instruction on groundwater resources and remediation to university and regulatory audiences, and was a co-editor of an Oxford University Press book on environmental site characterization and remediation. He earned an MS degree in Geology from Indiana University, and a BS degree in Engineering Geology from UCLA. Mr. Warner is a registered professional geologist, a certified hydrogeologist and a certified engineering geologist in California.

Additional Learning

April Webinar Series

Land Description Workshop

- **Land Description Basics**
Fri., Apr. 20, 2018, 9:00 - 10:30 AM CDT
- **Interpreting Land Descriptions**
Fri., Apr. 20, 2018, 11:00 AM - 12:30 PM CDT
- **Writing Land Descriptions**
Fri., Apr. 20, 2018, 1:00 - 2:30 PM CDT

Boundaries and Easements

- **Locating Land Boundaries on Paper (And on the Ground)**
Weds., Apr. 25, 2018, 9:00 - 10:30 AM CDT
- **Physical Evidence and Boundaries**
Thurs., Apr. 26, 2018, 1:00 - 2:30 PM CDT
- **Easements: Understanding Possessive Rights in Lands of Others**
Thurs., Apr. 26, 2018, 11:00 AM - 12:30 PM CDT
- **Disputes: Boundaries, Shared Spaces, and Split Estates**
Thurs., Apr. 26, 2018, 1:00 - 2:30 PM CDT

For more information visit:
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Registration

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