

HalfMoon Education Live Continuing Education Webinars

Michigan Groundwater Conference

Online - Wednesday, December 18, 2024 | 8:30 am - 4:00 pm EST

Credits: Professional Engineers: 7.0 PDHs
Geologists: 6.0-Hour Learning Opportunity
Attorneys: 6.0-Hour Learning Opportunity
Certified Planners: CM|6

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Michigan Groundwater Hydrology

D. Lusch

The hydrologic cycle
Precipitation and infiltration – how groundwater is made
Groundwater aquifer types, properties and extents in Michigan
Groundwater flow
Trends in groundwater levels
Relationship between groundwater and surface water
Impact of groundwater withdrawals on streamflow

Groundwater Use

D. Lusch

Water use in Michigan by source and sector
High-capacity groundwater wells
- Public water supply wells
- Irrigation wells (agricultural and golf courses)
- Industrial wells - Residential wells
Proliferation of wells
Groundwater mapping
Cumulative effect of groundwater pumping
Shallow groundwater salinization in southern Michigan

Michigan Groundwater Management

D. Lusch

Michigan water rights and the Reasonable Use Doctrine
Public Trust Doctrine
Part 127 water well construction standards
Classification of public water supplies
Wellhead protection areas Great Lakes Compact
Part 327 Water Use Assessment Process
Prevention of adverse impacts by water withdrawals
EGLE Water Withdrawal Assessment Tool
Status of the Water Use Program July 9, 2009 - August 31, 2023
The Michigan Agriculture Environmental Assurance Program
EGLE Groundwater Discharge Program
Other laws helping to protect groundwater quality
Rulemaking process

The Case for Groundwater Policy Reform in Michigan

L. Kirkwood

Importance of groundwater
Sources of groundwater pollution:
septic, industrial pollution, agriculture, etc.
Policy and legal challenges: fragmented authority, lack of comprehensive scientific data, differing policies for water quantity and quality, precautionary principle v. remediation, lack of public education and knowledge
Building momentum:
increasing groundwater policy reform efforts in michigan
Current legislative efforts to protect groundwater in michigan
- Uniform septic code
- Polluter pay reform

Presented by

David P. Lusch, Ph.D.

Retired professor with a 38-year career in the Department of Geography, Environment, and Spatial Sciences at Michigan State University

Liz Rosan Kirkwood, J.D.

Executive Director at FLOW (For Love of Water) in Traverse City, Michigan

For more information on the presenters, including full biographies: Please visit www.halfmoonseminars.org or scan the QR code

Tuition

\$339 for individual registration.

\$237 per attendee for group registrations of two or more people registering at the same time for the same program.

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Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs (based on 50-minute hours) for professional engineers in Michigan. Continuing education courses for Michigan engineers are not subject to pre-approval requirements.

This webinar offers a 6.0-hour learning opportunity to geologists and attorneys in Michigan.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6 for Certified Planners.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits: The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate.

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