

State News for NSPE Members

NSPE-CA Lunch Zoom Discussion – Ethical Insights

Join NSPE-CA members for a NEW online event format — Watch a **FREE NSPE webinar** on your own and then join your NSPE-CA peers for a hosted discussion on **Wednesday, January 25** (noon to 1:00 p.m. PST). The webinar for this discussion is Ethical Case Insights: Lessons in Disclosure.

NSPE-CA member Harold V. Hartman, P.E., will serve as the discussion host. Harold is a senior associate at Eco & Associates in Tustin. As an engineering management professional, he has spent most of his career with the US Army Corps of Engineers.

How to participate:

- Access the webinar [here](#). Add the webinar to your cart, then check out for free as an NSPE member.
- Watch the webinar at your own convenience.
- [Register](#) for our hosted discussion to receive the Zoom link.
- Come ready to share your thoughts on Wednesday, January 25!

[Reserve your spot today!](#)

Free Conference for NSPE-CA Student Members

College students can attend the DISTRIBUTECH International, February 7–9 in San Diego, with free conference admission. The Future Energy Leaders program was created to give engineering students the chance to experience DISTRIBUTECH International, the leading annual transmission and distribution event for utilities, technology providers, and industry leaders. Through this program, college students can attend sessions and courses based on timely topics in the industry and take advantage of networking opportunities. For your FREE student admission to the conference in San Diego, visit bit.ly/FutureEnergyLeaders.

Here are other upcoming events for NSPE-CA members and prospective members in the 2022-23 schedule.

January — Social Event with SWE in Southern California
February — National Engineers Week Events in San Diego
March — College Campus Visit to Promote PE Licensure

State Licensing Board News

Updated Content Information: Applicants and licensees are now required to provide the [California Board for Professional Engineers, Land Surveyors, and Geologists](#) with a valid email address (if they have one) and to notify the board within 30 days of any change of their email address. Click [here](#) for more information about this new requirement and how to notify the board of your email address.

State Laws and Regulations Document: The [2023 Professional Engineers Act, the Geologist & Geophysicist Act, and the Professional Land Surveyors' Act](#), and their associated regulations, are now available.

Upcoming Board Meeting: The board will hold its next meeting **February 2-3**. Access meeting information [here](#).

California Faces Catastrophic Flood Dangers

The storms that have been battering California offer a glimpse of the catastrophic floods that scientists warn will come in the future and that the state is unprepared to endure, the [Los Angeles Times reports](#).

Giant floods like those that inundated the Central Valley in 1861 and 1862 are part of California's natural cycle, but the latest science shows that the coming megafloods, intensified by climate change, will be much bigger and more destructive than anything the state or the country has ever seen.

A new state flood protection plan for the Central Valley presents a stark picture of the dangers. It says catastrophic flooding would threaten millions of Californians, putting many areas underwater and causing death and destruction on an unprecedented scale. The damage could total as much as \$1 trillion.

The plan, approved last month, calls for \$25 billion to \$30 billion in investments over the next 30 years in the Central Valley, and outlines recommendations that include strengthening levees and restoring natural floodplains along rivers. [Read more](#).

Waste-to-Hydrogen Facility to Fuel Transportation in

California

Raven SR Inc. (a renewable fuels company), Chevron New Energies (a division of Chevron U.S.A. Inc.), and Hyzon Motors Inc. (a manufacturer of hydrogen vehicles) are collaborating on the commercialization of a green waste-to-hydrogen production facility in Richmond, California.

The trio expects production to begin in Q1 2024, and the intention is to supply hydrogen fuel to transportation markets in Northern California, [PV Magazine reports](#). The three entities have formed a new company, Raven SR S1 LLC, which will be the operator of the facility.

The Contra Costa Sanitary Landfill will provide up to 99 wet tons of green and food waste every day to produce the hydrogen. Using a non-combustion steam/CO2 reforming process, the company expects to produce up to 2,400 metric-tons per year of renewable hydrogen.

The technology is a non-combustion thermal, chemical reductive process that results in hydrogen and Fischer-Tropsch synthetic fuels. Unlike other hydrogen production technologies, the company said its steam/CO2 reformation process uses less than half the energy of electrolysis. The combustion process uses no fresh water, which is important in California, given its drought issues, and it is more efficient than conventional hydrogen production and can deliver fuel with low to negative carbon intensity. [Read more](#).



NSPE's **Job Board** is your one-stop resource for professional engineering employment. Whether you are on the hunt for your next career move or looking for today's top engineering leaders and talent, you will find it here.

The latest California jobs are pulled from the NSPE Job Board and appear on the NSPE-CA website. New career opportunities are also posted through NSPE-CA social media profiles on [Twitter](#), [LinkedIn](#), and [Facebook](#).

Featured Jobs

[Senior Engineering Manager \[Hybrid\]](#)

Rosemead, CA

[Supervising Engineer – Transportation & Public Works](#)

Santa Rosa, CA

[Director of Transportation](#)

Oakland, CA

[Find more job openings or reach the right employees on the NSPE Job Board.](#)

Stay up to date on legislative issues through the [NSPE Advocacy Center](#).

NSPECon23 Call for Presentations

Share your expertise with professional engineers during [NSPECon23](#) in Louisville, Kentucky, August 2-4. Presentation proposals are being accepted on a [submissions site](#) until **January 25**. The sessions will focus on three topics: amplify your leadership human skills; stay informed about issues and trends impacting the profession; and invest in your career.



Accepted presenters will receive:

- The unparalleled opportunity to give back to the professional engineer community at a nationally recognized conference.
 - Recognition on the conference website with a headshot photo, biography, and session description.
 - A customized press release announcing your participation and contribution to the conference to share with your employer and/or clients.
 - Assistance with (and guidelines for) promoting your session on social media outlets.
 - Follow-up survey results and comments related to your presentation.
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Get Ready for Engineers Week: Creating the Future!

Engineers Week (February 19–25, 2023) is

dedicated to ensuring a diverse and well-educated future engineering workforce. The latest theme for Engineers Week seeks to inspire the next generation by celebrating all the way engineers are Creating the Future! A free **Countdown to Engineers Week webinar** will take place on **Wednesday, January 18**, at 12:00 p.m. to 1:00 p.m. (ET). [Register and attend the webinar](#) to receive an Engineers Week planning guide and starter pack.



[Access more information and resources.](#)

New Board of Ethical Review Cases

The NSPE [Board of Ethical Review](#) (BER) annually provides advisory opinions to provide guidance on ethical dilemmas. The Board of Ethical Review (BER) has [released a new set of cases](#) on various topics including on conflict of interest, duty to report, and professional qualifications.

Check out a BER case focused on the PE role in protecting the public health, safety, and welfare.

Facts: City passes an ordinance requiring a sprinkler system in residences with less than eight feet between them and makes the ordinance effective as to all construction which has not yet received an occupancy permit. This means that projects under construction must have a sprinkler system added. Engineer A, who happens to have both structural and fire protection credentials, is hired by Homeowner to design a retaining wall system to stabilize a rear yard. Homeowner allowed Engineer A to store equipment in the integral garage. Engineer A observes that the builder routed the piping for the retrofitted sprinkler system through the unheated garage, exposing the pipes to freezing temperatures.



Questions: What are Engineer A's obligations?

[Access the full case to read the BER's discussion and conclusion.](#)

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22314**