Registration Open: NSPE-NV May Luncheon

NSPE-NV will hold its monthly luncheon on Tuesday, May 21, on the topic - Employing Structural Expertise for Effective Urban Search & Rescue Operations. The featured speakers are Raphael Thomas, training manager at Nevada Task Force 1- FEMA Urban Search & Rescue and Omar Saleh, P.E., structures specialist at Nevada Task Force 1- FEMA Urban Search & Rescue. Learn more about the speakers.

Members can attend in-person at Lawry's The Prime Rib (4043 Howard Hughes Parkway, Las Vegas, NV 89169) or virtually. Registration and fees for in-person attendance are due by Saturday, May 18. Virtual attendees must register no later than 5:00 p.m. on Sunday, May 19. Register Now!

Thanks to Our Sponsor!

Are You Ready to Lead Within NSPE-NV?

NSPE-NV is seeking an individual to serve out the rest of the term for secretary for the state society/foundation boards for the 2022-2024 term (ends June 30). We are also seeking members that would like to serve on NSPE-NV's next board for the term of July 1, 2024 to June 30, 2026.

Please contact Martin Jensen (mjensen@teamues.com) or Bob Thomsen (Bob.Thomsen@gesnevada.com) if you are interested.
Nevada MATHCOUNTS Activities Ramp Up in May

MATHCOUNTS Sporting Clays Tournament
Southern Nevada MATHCOUNTS hosted the annual sporting clays tournament on May 3, at Pro Gun Vegas in Boulder City. The main fundraising vehicle for the MATHCOUNTS program welcomed 60 participants during the 75-clay shoot. The event started mid-morning and finished with a meal of freshly made tacos as a nod to Cinco de Mayo, a donation raffle, and awards. The Las Vegas Paving team members Cody Hardy, Mike Leeper, Jared Wagstaff, and Brian Smith (pictured left to right) were the tournament winners. Thank you to all participants and their continued support this year!

MATHCOUNTS National Competition in Washington, DC
Nevada's team placed 11th overall out of 56 teams at the 2024 RTX MATHCOUNTS National Competition. One team member took the 25th position and two other members placed in the top 50 out of 224 individual competitors. They capped off this amazing competition with fun and festivities. We are so proud of their achievements this year!

2024 Nevada MATHCOUNTS Team
Solomon D. (7th grade) - Las Vegas
Julian K. (8th grade) - Reno
Cuihan M. (8th grade) - Las Vegas
Max T. (7th grade) - Las Vegas
Ismail M. (Coach) - Las Vegas
NSPE-NV STEAM Spring Outreach

STEAM outreach kicked into high gear this spring season as NSPE-NV members devoted their time to educate and inspire a new generation of engineers. The society sponsored a booth at the following events:

- Children’s Discovery Museum on April 27 in partnership with the ASCE Younger Member Forum.
- Partnered with Future City at the Las Vegas Science & Technology Festival at the EXPO at World Market Center on May 4.
- "Cities of the Future" film premiere at the Galaxy Theater in partnership with the Clark County School District.
- Recruited teachers for the Future City Competition.

What's next? The outreach will continue at the upcoming "Epic Engineering Summer Camp" sponsored by SWE at the Advanced Technologies Academy, June 5-7 (8:00 a.m.-12 p.m). The summer camp will introduce girls in grades 6-7 to a variety of engineering fields, including mechanical, structural, and chemical. Registration for the event closes on May 29. Anyone interested in volunteering should contact Amy Poechmann, P.E., at Amy.Poechmann@westwoodps.com with their availability. Access the event flyer.

Anthony Fiti and Brook Demitropoulos promote the Future City Competition program.

State Licensing Board News

Board Welcomes New Executive Director
The Nevada State Board of Professional Engineers and Land Surveyors recently welcomed Mark Fakler, P.E., to serve as executive director. He takes the reins from Patty Mamola, P.E., who served as executive director from 2016-2024.
Fakler has over 33 years of experience in general civil engineering design and management of residential developments as well as public and private site development projects. Throughout his career, he has been responsible for the management and successful operation of large design teams and land development departments of more than 50 people.

Upcoming Public Hearing
The board will conduct a public hearing to receive comments from all interested persons regarding the adoption of regulations that pertain to Chapter 625 of the Nevada Administrative Code. The public hearing will be held virtually (https://zoom.us/j/8286438008) on Thursday, June 13, at 9:00 a.m. The proposed regulatory revisions are as follows: LCB file # R006-24, relating to written contract required for each client. Access the agenda and notice of public hearing on the board meetings page.

Read the latest issue of the The Nevada Connection for more information about recent board and licensing activities.

STEM Consortium Creates Workforce Pipeline

In the 20th century, miners resorted to using canaries to detect poisonous gasses like carbon monoxide before entering a mine. Thankfully, technology has evolved and now robots can be sent into the field, making certain jobs safer for humans — and animals — alike.

In a parking lot outside the Stan Fulton building, the UNLV-led Nuclear Security Science and Technology Consortium (NSSTC) recently demonstrated how faculty-student research, in collaboration with national labs, is developing future technologies — and the future workforce.

The exercise, which included a team from Nevada National Security Sites (NNSS),
focused on remote sensing of radiation using robots. During the demonstration, students used ground robots and unmanned aerial systems (drones) to detect 100 sealed radiation sources scattered across the test site, imitating a radiation accident or spill. The goal was to sense radiation remotely in a way that could be used in the future to access hard-to-reach areas or gather data without exposing people to radiation.

"We want the drones to rapidly get to the source and map the radiation field to make the area safe for ground operators," said Woosoon Yim, mechanical engineering professor at UNLV and a co-principal investigator for NSSTC.

The robots equipped with radiation detectors transmitted data to laptops, where researchers — from a safe distance — could view the incoming data in real-time. This allowed them to identify the type of radiation and position of the radiation-emitting source, analyze it, and assess the situation.

"All of the radiation data we collected allows us to form a realistic simulation environment," said Yim. "Using the data, we can fly the drone in the computer simulation many times, checking each algorithm to see which is most effective." Read more in the UNLV News Center.

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**Nation's 'Dirtiest Coal Plant' is Now Part of Nevada's Clean Energy Transition**

Fifty miles northeast of Las Vegas, just outside the unincorporated town of Moapa, the Muddy River flows through a flat-bottomed desert valley.

The spring-fed perennial stream meanders from its headwaters near the lush, palm tree-dotted Warm Springs Natural Area on its way to Lake Mead. Along the way, it passes the former Reid Gardner Power Station.

For nearly five decades, the station stood in stark juxtaposition to the river; a bastion of steel and cement surrounded by barbed wire, with four towering coal-fired units that belched toxic particulates and carbon into the air while producing hundreds of megawatts of power. In 2007, it was rated the nation's dirtiest coal plant in terms of carbon dioxide emissions.

Once the future of industrialization, the death knell is ringing for coal across the nation and in Nevada. In the push to reduce greenhouse gas emissions, lawmakers and utilities are distancing themselves from coal, the dirtiest fossil fuel. In 2022, it accounted for 19% of total US energy-related carbon emissions.

Following direction from Nevada lawmakers almost a decade ago, NV Energy, the state's largest electricity provider and operator of the Reid Gardner Power Station, permanently shuttered the plant between 2014 and 2017, decommissioning and

Stay up to date on legislative issues through the NSPE Advocacy Center.

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Get Involved! NSPE Seeks Volunteers for 2024-25 Committees

NSPE’s passionate and dedicated committee volunteers are essential to our mission. Why serve? In addition to giving back to the professional engineering community, NSPE volunteers form strong connections with committee colleagues, learn new skills, enjoy networking with leaders or hone their own leadership skills.

Learn more and apply to NSPE’s 2024-25 Committees by June 3. (You must log-in with your NSPE credentials to submit an application.)

If you do not see an opportunity that interests you in the link above, check out Get Involved throughout the year to learn more about other areas of engagement, including short-term projects.

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NSPECon24 Keynote Speakers
NSPECon24 (Raleigh, North Carolina, August 7-9), the prime national event for professional engineers, will feature keynote speakers to provide inspiration and guidance to help elevate your career in addition to putting a spotlight on emerging issues within the industry. **Early-bird registration rates are available until June 27.** Access registration information and rates [here](#).
Paul Doherty, chairman and CEO of The Digit Group, will present the session “Unlocking the Metaverse: AI, Engineering the Future of Our Industry” to provide insight on emerging technologies and explore real-world solutions and projects that are challenging our industry.

Dan Heath, author and senior fellow, The Center for the Advancement of Social Entrepreneurship (CASE), Duke University, will present the session “RESET: How to Change What’s Not Working” to explore a framework for getting unstuck and making the changes that matter.

Access the preliminary NSPECon24 program for more details on the keynote speakers and session topics.

NSPECon24 also offers a variety of sponsorship and exhibitor opportunities to put your company or organization in front of senior executives and other decision-makers from across the industry. A special exhibitor discount is being offered to Research Triangle-based businesses.

Welcome to Our 2024 Sponsors!
Inaugural Leadership Institute for Women PEs
NSPE’s Women Leadership Program is sponsoring the Leadership Institute for Women Professional Engineers, a three-day program designed to support mid-career women PEs in confidently navigating their career path and leveraging their leadership skills.

The institute agenda is interwoven into the NSPECon24 program with participants attending pre-conference opening sessions on Wednesday, August 7, and sessions the mornings of Thursday, August 8 and Friday, August 9, in Raleigh, North Carolina. Attendees must register for NSPECon24 to attend the institute.

Access more information and register.