

CEGSAC

NEWSLETTER



Contact Us!

Website

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Email: Cegsac@purdue.edu



PURDUE
UNIVERSITY®

Mar, 2024 || Be a part

Our Team

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José Capa Salinas

Vice President



Deepak Benny

President



Myriam Sarment

Treasurer



Sean Dankoski

Secretary



Kaitlyn Kondos

Professional Development Committee



Myles Overall



Luis David Fernandez Vasquez

Sports, Health & Wellness Committee

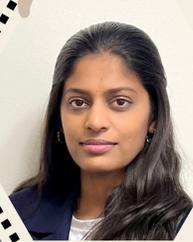


Gopal Chitalia



Apoorv Raj Kumar

Office of Public Relations



Prathyusha Malladi



Prajjwal Prajjwal

Cultural & Community Outreach Committee



Mithun Debnath



CEGSAC is all about exploring and enrichment your skills; both with social events as well as professional activities.



Prophetstown Hike

Fall Welcome Breakfast



Explore CEGSAC Now

We enrich your social and professional experience at Purdue



Enjoy Unlimited !

Flashback
Fall 2023

CEGSAC Events



Kayaking



Prophetstown Hike



*Resume Session
with CCO*



Cultural Potluck



Corn Maze



*Painting and
Hot Cocoa*



*Welcome Week
Socials*



Welcome Week



*Holiday
Hangout*



Soccer Event



UPCOMING CEGSAC EVENTS

SPRING 2024

CULTURAL &
COMMUNITY OUTREACH

PROFESSIONAL
DEVELOPMENT

SPORTS, HEALTH
AND WELLNESS

JAN 26 ✓
FOOD BANK
VOLUNTEERING

FEB 15 ✓
RESEARCH
BYTES

JAN 21 ✓
PURDUE VS IU
BASKETBALL
GAME

FEB 10 ✓
SPRING
FESTIVAL

APR 1
EMERGING
LEADERS

FEB 2 ✓
ICE SKATING AT
RIVERSIDE

FEB 21 ✓
GETOWN HALL

APR 19
RESEARCH
SYMPOSIUM

MAR 17
MARCH MADNESS
BRAKET AND
WATCH PARTY

FEB 29 ✓
DIVERSITY AND
INCLUSION
PANEL

APR 24
YOGA RELAXATION
WEEK BEFORE
FINALS

APR
SPRING PICNIC

CEGSAC

WEEKLY SPORTS
REACH OUT TO SHW TO GET
INVOLVED



Want to know more
about CEGSAC?
Scan me!

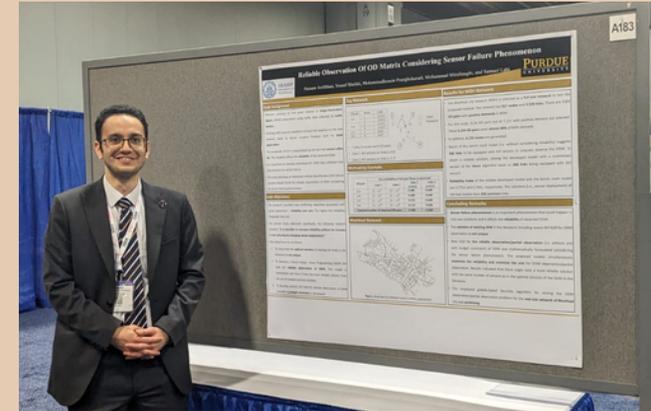


CE Highlights

More than 50 students from CE, mostly transportation graduates, visited Washington DC for the 2024 TRB Annual Meeting held during Jan 8-11, 2024.

The list of few presentations are below:

1. Methodology for Automatically Setting Camera View to Mile Marker for Traffic Incident Management, Haydn et al.
2. Blue UAS Explained: The Current Drone Market, Flight Regulations, & Debunking Common Misconceptions, Jose Capa Salinas
3. Analyzing the Mechanical Response of a Calibrated Finite Element Model for Flexible Pavement with Embedded Dynamic Wireless Power Transfer Technology, Oscar Andrés Moncada
4. Effects of Temperature Variations on Falling Weight Deflectometer Deflection Data from Full-Depth Asphalt Pavements, Pablo Orosa Iglesias
5. Deep Reinforcement Learning Based Autonomous Vehicle Fleet Control with Constrained Entropy-Based Dynamic Routing, Runjia Du
6. Computational Fluid Dynamics Visualization for Unmanned Aerial Systems in Bridge Inspections, Kristoffer Borgen
7. Reliable Observation Of Origin-Destination Matrix Considering Sensor Failure Phenomenon, Mohammadhosein Pourgholamali
8. CEMFormer: Learning to Predict Driver Intentions from In-Cabin & External Cameras via Spatial-Temporal Transformers, Yunsheng Ma
9. Comparison of Home Detection Algorithms Using Smartphone GPS Data, Rajat Verma et al.
10. Mobility Evolution in the US: Evidence from Electric Vehicle Adoption, Ricardo Chahine
11. 3D Scanning Technology Framework – From Bridge Inspection to Evaluation, Deven Kanakamedala
12. An Encoder-Decoder Model for Pavement Subsurface Crack Detection and Size Estimation Using GPR Data, Yuxi Zhang



Purdue CE Research Center Highlights



CELEBRATING
20
YEARS

ROBERT L AND TERRY L.
BOWEN
LABORATORY

The 66,000 square-foot Robert L. and Terry L. Bowen Laboratory for Large-Scale Civil Engineering Research provides the space and technical capability needed to investigate the behavior of large structural models and elements subjected to loads representing extreme events, such as earthquakes, blasts, and impact, so that future structures will be designed to better withstand these extreme events. The lab's "strong floor," clear ceiling height of 54 feet, loading apparatus, and advanced instrumentation set a new standard for materials and structures testing. A sample set of research projects at the Bowen Lab include:

- Teaching Machines to Classify and Organize Reconnaissance Image Data
- Resilient Extra Terrestrial Habitat Engineering (RETH)
- Establishing a Research Network in Hybrid Simulation for Multi-Hazard Engineering
- Probability of Detection Study for Bridge Inspection Related to Steel Bridges
- Seismic Response of Structural Walls with Reinforcement and Geometric Discontinuities
- Seismic Response of Reinforced Concrete Walls with Lap Splices
- Member-level Redundancy in Built-up Steel Members

For more details visit:

<https://engineering.purdue.edu/Bowen>

Alumni Spotlight

Yashu Singh, CEM Graduate of 2023

Current Position:

Senior Specialist Inspection , PM/ CM team, WSP, Indianapolis

1. If you could go back to your time at Purdue University, what advice would you give the current candidates?

Looking back at my time at Purdue University, I'd advise current candidates to embrace opportunities, build a robust network, balance priorities for academic and personal growth, stay curious, utilize campus resources, and cultivate essential soft skills & certifications.

2. Could you share your experience during the hiring process before joining WSP?

During the hiring process before joining the company, my experience was dynamic. I navigated through interviews, showcasing my skills and experiences on platform such as LinkedIn. The process included discussions about my academic background, relevant projects, and how my expertise aligned with the company's goals. It was a collaborative and insightful journey that allowed me to highlight my strengths and demonstrate my enthusiasm.

3. Are there any exciting industry trends or emerging technologies that you believe students should keep an eye on as they enter the job market?

As students enter the job market in the construction industry, keeping an eye on emerging technologies is crucial considering recessions in other sectors. Trends such as On-site profile, VDC, Building Information Modeling (BIM), and the integration of advanced materials using Digital Twin, Smart Concrete, Value Engineering are gaining momentum.

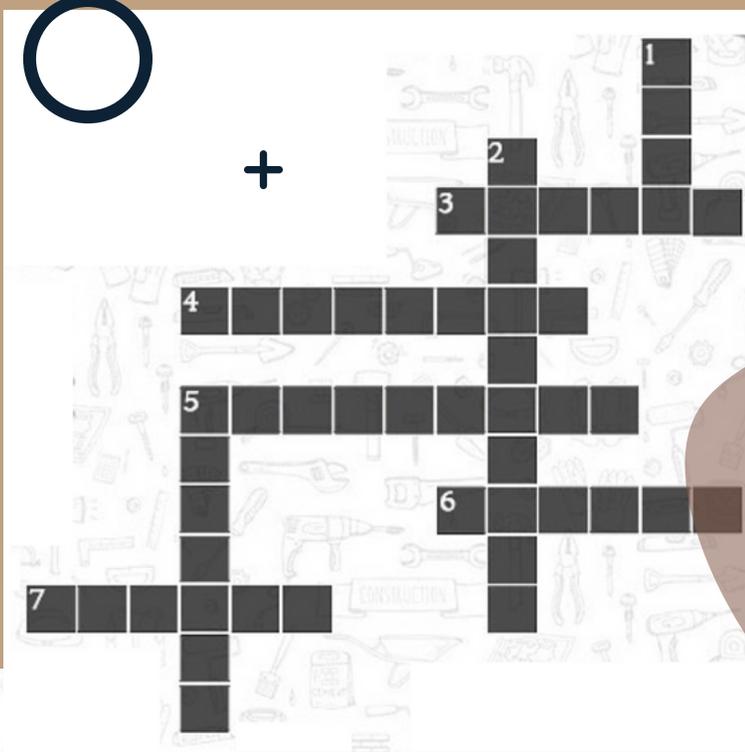
4. Does WSP have initiatives to support ongoing learning and professional development for its employees?

Yes, at WSP USA, continuous learning is a priority. The company has robust initiatives to support ongoing professional development for its employees. These include training programs (Risk, Safety and Project management course), mentorship opportunities, and access to resources that encourage skill enhancement and career advancement.

5. Lastly, are there any current job openings or opportunities at your company that you and your colleagues are looking to fill?

As of now, we have lots of exciting job openings at our company throughout the US market, we have plan to recruit 400 candidates every month for next 2 years at least to cater to our backlogs. However, I would advise students to check the roles and responsibilities before applying to any position and Qualification for that profile. Also, master's is generally considered as 1 year industry experience by companies in US so count that while applying. Moreover, if anyone want my referral, they should send first send the job position details to me so that I can apply internally and then you will get the link with my reference and can complete the details for final processing. ALL the BEST!!





Structures CROSSWORD!



ACROSS

- 3.** Vertical member of structures made to transmit compressive load
- 4.** structure built to support lateral Pressure of arch or span
- 5.** Permanent foundation to which the lower members of the building can be attached firmly.
- 6.** Tall circular support structure used in buildings.
- 7.** The main horizontal support of a structure which supports smaller beams

DOWN

- 1.** Horizontal structure used for supporting roof or floor
- 2.** Lowest part of building, transfers load of building to the ground
- 5.** Artificial channel for conveying water

