Our Team

PGSG Senator
José Capa Salinas

Secretary
Kaitlyn Kondos

President
Myriam Sarment

Vice President
Deepak Benny

Treasurer
Sean Dankoski

Professional Development Committee
Myles Overall
Luis David Fernandez Vasquez

Sports, Health & Wellness Committee
Gopal Chitalia
Apoorv Raj Kumar

Office of Public Relations
Prathyusha Malladi

Cultural & Community Outreach Committee
Mithun Debnath
Prajwal Prajwal
CEGSAC is all about exploring and enrichment your skills; both with social events as well as professional activities.
<table>
<thead>
<tr>
<th>CULTURAL &amp; COMMUNITY OUTREACH</th>
<th>PROFESSIONAL DEVELOPMENT</th>
<th>SPORTS, HEALTH AND WELLNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JAN 26</strong> Food Bank Volunteering</td>
<td><strong>FEB 15</strong> Research Bytes</td>
<td><strong>JAN 21</strong> Purdue vs IU Basketball Game</td>
</tr>
<tr>
<td><strong>FEB 10</strong> Spring Festival</td>
<td><strong>APR 1</strong> Emerging Leaders</td>
<td><strong>FEB 2</strong> Ice Skating at Riverside</td>
</tr>
<tr>
<td><strong>FEB 21</strong> CE Town Hall</td>
<td><strong>APR 19</strong> Research Symposium</td>
<td><strong>MAR 17</strong> March Madness Bracket and Watch Party</td>
</tr>
<tr>
<td><strong>FEB 29</strong> Diversity and Inclusion Panel</td>
<td></td>
<td><strong>APR 24</strong> Yoga Relaxation Week Before Finals</td>
</tr>
<tr>
<td><strong>APR</strong> Spring Picnic</td>
<td></td>
<td>Weekly Sports Reach out to Shw to Get Involved</td>
</tr>
</tbody>
</table>

**CEGSAC**

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:

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
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
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
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 platforms 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 first send me the job position details 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!!
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