

BSAC



BOWEN STUDENT ADVISORY COUNCIL (BSAC)

The Bowen Student Advisory Council (BSAC) was founded in 2010 to promote communication between students and faculty, resolve student lab concerns, and cultivate the Bowen researcher community. The organization meets monthly to hear about students' current research, celebrate birthdays, and discuss lab business. BSAC coordinates semi-annual lab cleanups, industry tours, and Bowen Lab tours. Most recently, members of BSAC joined West Lafayette's summer softball league. BSAC strives to strengthen the partnership between students, faculty, administrators, and alumni in continuing to build Purdue Engineering's excellence in education, research, and service.

Who are We?

- Over 60 members of the Purdue community have contributed to the research at Bowen Lab during 2022-2023. Here is a rough breakdown:
 - Research Engineers: 5
 - Post-Docs: 4
 - Doctoral Students: 23
 - Master's Students: 20
 - Undergraduates: 19
 - Technical Staff: 6
- BSAC researchers hail from over 14 different countries!
- BSAC members are some of the biggest fans of concrete, steel and soil you will meet in the field.

BSAC Mission Statement

Research: Foster a collaborative research environment around the lab to share new discoveries and common resources

Community: Encourage a welcoming, inclusive, and diverse workplace through regular activities and events

Engagement: Educate the public by giving lab tours and engage with the outside community through industry tours

RESEARCH | COMMUNITY | ENGAGEMENT

BOWEN LAB

Bowen Lab facilitates the investigation of large-scale civil engineering elements subject to a variety of realistic conditions, such as cyclic fatigue, service- and design-level loads, fire, earthquake, blast, and impact. Studies conducted at the laboratory have shaped civil engineering design codes and have moved the industry to construct stronger, safer, and more sustainable structures.

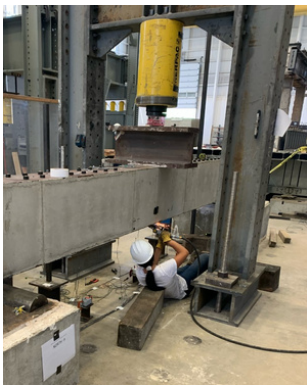
The 66,000-square-foot experimental space includes a strong floor and wall system, two 30-ton cranes, a 12 ft. x 12 ft. unidirectional earthquake simulator, loading apparatuses, and advanced sensing systems. Students build and test their experiments with support from 2 lab technicians and 10 engineering faculty.



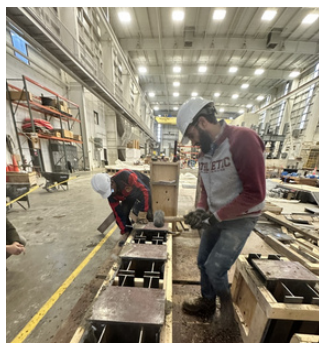
Fall 2022 Bowen Lab Clean-Up



Tom Bradt posing after the Spring 2023 Bowen Lab Clean-Up



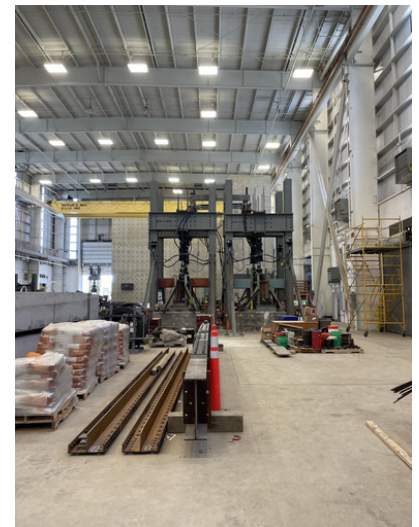
Margaret Perlman grinding



Ata Rehman prepping for casting



Ganesh Rajpal working on concrete cylinders



Bowen Lab after the Fall 2022 Clean-Up

MEET THE 2022-2023 BSAC PRESIDENT:

SARAH BOWLIN



Sarah is currently a Ph.D. student working with Dr. Robert Frosh and Dr. Chris Williams. Sarah thanks BSAC for helping her become a better researcher and student by learning about other students' research and experiences. Sarah thanks the collaborative environment at Bowen Lab for challenging her during her research.

- **Tell us about your research.**
My research focuses on the behavior of pretensioned and post-tensioned concrete through various experimental tests on concrete girder specimens. I love getting my hands dirty while casting my specimens and learning so much from them!
- **What is your favorite BSAC memory?**
My favorite memory is playing yard games in front of Bowen.

- **What is your favorite Purdue sports team?**
My favorite Purdue sport to watch is Purdue football.
- **What is your favorite restaurant in the West Lafayette/Lafayette area?**
My go-to restaurant is East End Grill.



Margaret Perlman and Sarah Bowlin with their furry pets representing Bowen Laboratory for Purdue Day of Giving

THE LAB RATS

BSAC joined West Lafayette's 2022 Summer Co-Ed Softball league. Many members learned how to throw and hit a softball, with the team improving tremendously throughout the season. Although the team did not go onto to the championships, the team held a winning streak throughout the division tournament.

Meet the Board

Name, Degree Seeking, Advisor

President

Sarah Bowlin

Ph.D. Student

Advisors: Dr. Robert Frosh and

Dr. Chris Williams

Vice-President

Margaret Perlman

Ph.D. Student

Advisor: Dr. Amit Varma

Treasurer

Jose Capa-Salinas

Ph.D. Student

Advisor: Dr. Robert Connor

Secretary

Sean Dankoski

Undergraduate Student

Advisor: Dr. Amit Varma

Tour Committee Chair

Amanda Lefebvre

Masters Student

Advisor: Dr. Amit Varma

Event Committee Co-Chair

Grant Davis

Masters Student

Advisor: Dr. Amit Varma

Event Committee Co-Chair

Mason Rhodes

Masters Student

Advisors: Dr. Robert Frosh and

Dr. Chris Williams

Communications Specialist

Margaritis Tonidis

Ph.D. Student

Advisor: Dr. Akanshu Sharma

The BSAC 2022-2023 Newsletter was written and edited by Margaret Perlman. If you have any questions, please reach out to mperlma@purdue.edu

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2022-2023 BSAC MEMORIES



Margaret Perlman, Dr. Lisa Choe and Joshua Harmon getting ready to test



The women of BSAC getting lunch



Grant Davis putting to use BSAC's new griddle



Omair Bin Saleem and his oldest son



BSAC'S SUMMER SOFTBALL TEAM "THE LAB RATS"



Mason Rhodes showing off BSAC's new grill



Ata Rehman getting ready to strike out a batter



BSAC members playing cricket



Dr. Amit Varma handing managers Morgan Broberg and Tom Bradt their awards



Dr. Amit Varma smiling at BSAC's win

Photo credits to Dr. Jungil Seo, Margaret Perlman and Ganesh Rajpal