

**Civil, Environmental, &  
Architectural Engineering  
POSTER SESSION, 12:30pm to 3:00pm  
Kaven Hall**

**1. Building Responsibly: Sustainability Within the Supply Chain**

Nicholas Battaglino, Eugena Choi, Hannah George, Jaily Mederios, Adam Tedesco, Dreivone Townsend

Advisors: Jessica Rosewitz, Laila Abu-Lail, Laureen Elgert, Soroush Farzin, John Lindholm, Lisa Stoddard

**2. An Analysis of Water Scarcity in California and Recommendations for Management in Coalinga**

Duncan D'Olimpio, Meilie Fromhein, Kayleigh George, Chloe Harrison, Richard Healey

Advisor: Jeanine Dudle

**3. Evaluating the Initial Service Line Inventory and Replacement Plan Processes**

Donald Crowley, Louis Lavenda, Ryan Malaquias, Joseph Peregrin

Advisor: Jeanine Dudle

**4. The Lantern Student Hub: A Space for Better Mental Health**

Jesse Ames, Anna Bauerle, Ethan Lockhart, Christina Tran

Advisors: Saroush Farzin, Leonard Albano, Crystal Brown

**5. Developing a Space Improving Behavioral Patterns and Productivity**

William Fallon, Jonathan Nguyen, Ethan Thompson

Advisors: Soroush Farzin, Ali Yousef

**6. Design of Duxbury Boardwalk**

Elidja Diakite, Ryan Tonry

Advisors: Suzanne LePage, Leonard Albano

**7. Interchange Redesign: Modernizing Infrastructure in Sterling, Massachusetts**

Samantha Calamari, Braeden Fruchtman, Abigail Pulling, Brandon Taranto

Advisor: Suzanne LePage

**8. Advising the CTDOT on Accessibility Compliance, Safety, and Stormwater Management in Bridgeport, CT**

Kendall Begin, Bridget Gillis, Margaret Paratore

Advisor: Suzanne LePage

**9. Engineering Enclosures for Space: Architecture for The Next Frontier**

Samuel Dickens, Joseph McNeill, Natanel Pinkhasov, Aunika Yasui

Advisors: Soroush Farzin, Carrick Eggleston, Nima Rahbar

**10. East Haddam Downtown Roadway Redevelopment**

Nicholas Manz, Jack Perriello, Aaron Swann

Advisor: Suzanne LePage

**11. Botanical Conservatory for Aldus C. Higgins House Estate**

Morgan Collins, Megan Haley

Advisors: Steven Van Dessel, Jim Ryan, David Samson

**12. On-Campus Student Parking Garage & Recreation Center**

Mario Barberio, Alexi Echevarria, Michael McLoughlin, Giovanni Ramirez

Advisor: Leonard Albano

**13. Optimizing Storage Tank Design for Efficient Potable Water Supply**

Bryce Curtin, Christian Davis, Robert Gyurcsan, Marcella Larrabee

Advisor: Jeanine Dudle

**14. Comparing Retrofitting Strategies: Energy Goals in Northeast America & Northern Italy**

Franklin Ford, Seton King

Advisors: Steven Van Dessel, Tahar El-Korchi

**15. Corridor Study of Route CT-156 in East Lyme, Connecticut**

Luna Daury, Michaela Dos Santos, Lauren Hess  
Advisors: Suzanne LePage, Robert Kreuger

**16. Developing a New Baseball Facility for WPI**

DJ Brooks, Jacob DelMonte, Frankie Polito  
Advisors: Leonard Albano, Mehul Bhatia

**17. Simultaneous Degradation of Ammonia and PFAS in Landfill Leachate**

Isabella Clowes, Bhargavi Ramesh, Liam Thomson  
Advisors: John Bergendahl, Stephen Kmietek

**18. Analyzing PFAS in the Blackstone River Watershed**

Noelle Noons, Alec Parish  
Advisors: John Bergendahl, Stephen Kmietek

**19. PFAS Extraction via Divalent Cationic Interactions**

Max Elwell, Madeline Goggin, Patrick McKenna, Nathan Raymond  
Advisors: John Bergendahl, Stephen Kmietek

**20. Re-Imagining the Gordon Library**

Joseph Hurley, Kyle Shriberg, Emmanuel Vargas  
Advisors: Steven Van Dessel, Tahar El-Korchi

**21. Restoration of the Mill Creek Salt Marsh in Chelsea MA**

Joseph Horowitz, Adam Lepore, Rebekah Mendoza, Kaleigh Walsh  
Advisors: Paul Mathisen, Crystal Brown

**22. Analysis and Design of a New Community Recreation Center in Worcester**

Jocelyn Bourgoïn, John Mohareb, Ravyn Rapley, Vivian Vacharakupt  
Advisor: Jessica Rosewitz

**23. Mangrove Boardwalk Project**

Deidra Anderson, Luke Barckholtz, Lenny Fils-Aime, Sarah Hull, Timothy Ryan  
Advisor: Aaron Sakulich

**24. Auxetic Steel-Concrete Structures**

Ibrahim Hussam Smaili Krkoukli  
Advisor: Nima Rahbar

**25. Potable Water Reuse in Massachusetts**

Carley Burns  
Advisor: John Bergendahl

**26. What Makes a Home?**

Vivienne Evans  
Advisor: Nancy Ma

**27. Waste Pavilion**

Dakota Lehner, Esrom Negash, Megan Tupaj  
Advisors: Soroush Farzin, Leonard Albano, Nima Rahbar, Bridgitt Servatius, Herman Servatius

**28. Reimagining of WPI Gordon Library - Retaining Wall Design**

Elizebeth Fiscus  
Advisors: Steven Van Dessel, Tahar El-Korchi

**29. Biocemented Soil Stabilization with Enzyme Induced Carbonate Precipitation through Carbonic Anhydrase**

Edward Jacoby  
Advisor: Nima Rahbar

**30. Designing a Community Space in Buxton, Guyana**

Nathalie Larrea  
Advisor: John Bergendahl