Civil, Environmental, and Architectural Engineering

POSTER SESSION, 9:00am to 11:00am
Harrington Auditorium

ACSA 2026 Steel Design Competition
Aidan McLoughlin (AREN), Edward Zazzali (CE), Gwendolyn Locke (AREN), Katelynn Bonhoff (AREN)
Advisor: Soroush Farzin (CEAE), Leonard Albano (CEAE)

ACSA COTE Design Competition - Submission 2026
Andrew Barbera (AREN), Joseph Dumas (AREN), Theodore Joseph (CE)
Advisor: Soroush Farzin (CEAE), Leonard Albano (CEAE), Steven Van Dessel (CEAE)

Accelerated Bridge Replacement of Route 9 over Milk Street, Westborough MA
Drew Ortlieb (CE), Ethan Lima (CE), Fedor Drygin (CE)
Advisor: Jessica Rosewitz (CEAE)

Bridge Design for Flood Resiliency: A Case Study of Route 34 Bridge Over Eight Mile Brook in Oxford, CT
Lindsay Bailey (EVE), Lydia Beers (CE), Nigel St. Jean (EVE/ESS)
Advisor: Leonard Albano (CEAE), Jeanine Dudle (CEAE)

Concrete Canoe
Lorenzo Reetz (CE**)**
Advisor: Aaron Sakulich (CEAE)

Concrete Canoe Project Management System and Design Process
Joshua Martin (CE), Katrina Yurista (CE), Niko Canning (CE)
Advisor: Aaron Sakulich (CEAE)

Degradation of Sediment Organic Matter Using Oxygen Nanobubbles
Declan Reilly (EVE), Nikolas Hemmings (EVE)
Advisor: Harold Walker (CEAE)

Design and Analysis of Materials for Mixed-Use Podium Design
Megan Viellette (CE), Nate Randa (CE), Robbie Shumway (CE), Samantha DeFrancesco (CE)
Advisor: Leonard Albano (CEAE)

Design and Development of a Visitor Center at Wachusett Dam
Eva Kadriu (AREN), Jack Hazel (CE), Samuel Witscher (CE/ME), Kayla Kiely (AREN)
Advisor: Steven Van Dessel (CEAE), Tahar El-Korchi (CEAE), Mingjiang Tao (CEAE), Kedar Prashant Shete (MME)

Design for Community: Beaver Lake Water Quality Management Strategies
Cole Cammarata (EVE), Corinna Petrich (EVE), Katherine Laska (EVE), Scarlett Strom (EVE)
Advisor: Jeanine Dudle (CEAE)

Design of a 3D-Printed Mobile Tiny Home for Coastal Risk Zones
Bennet Kracz (AREN)
Advisor: Soroush Farzin (CEAE)

Downtown District of Worcester and DCU Center Pedestrian Development
Allison Georato (CE), Caelan Lamberton-Dunham (CE), Grace Hart (CE), Jami Nadeau (CE), Joseph Rocco (CE)
Advisor: Leonard Albano (CEAE)

Eco-Evolutionary Façades
Diego Winsor (AREN), Victoria Preble (ME), James Blanche (CE), Marissa Whalley (AREN), Reese Pszenny (AREN)
Advisor: Soroush Fazin (CEAE), Leonard Albano (CEAE)

Elevating Soil Reuse by a Lightly Contaminated Soil Management System Design in Massachusetts, USA
Chloe Johnson (EVE)
Advisor: John Bergendahl (CEAE), Laureen Elgert (The Global School)

Exploration of Laccase- and Fenton Like-Functionalized Hydrogel–Biochar Systems for Water Remediation
Chancellor Walworth (EVE), Garyth Page Violette (EVE), Nathan Kessler (CE)
Advisor: John Bergendahl (CEAE), Brajendra Mishra (MME), Carrick Eggleston (CEAE)

GenAI Augmented Reality for Collaborative Architectural Design
Nathaniel Powers (CS/ME), Maxwell Wiesenfeld (AREN)
Advisor: Shichao Liu (CEAE), Soroush Farzin (CEAE), Gillian Smith (CS)

Green Infrastructure for Climate Resiliency in Worcester, Massachusetts
Ethan Paredes (EVE), Alison Strojny (EVE)
Advisor: Suzanne LePage (CEAE), Stephen McCauley (DIGS)

Hydrologic Evaluation and Design of Green Infrastructure for Stormwater Mitigation in Worcester
Angelina Zaki (EVE)
Advisor: Suzanne LePage (CEAE), Stephen McCauley (DIGS)

Indian Lake Water Quality Protection
Oliver Forbes (CE), Stella Brouillet (EVE), Spencer Schmidt (CE)
Advisor: Paul Mathisen (CEAE)

Inflatable Martian Structure
Jack Patten (ME), Megan Perkins (ME), Jared Vincent Sangil (AREN), Mardin Minasian (ME), Will Canniff (ME)
Advisor: Reza Ebadi (MME), Soroush Farzin (CEAE), Steven Van Dessel (CEAE)

Multimodal Transportation Recommendations for Route 12 in Auburn, Massachusetts
Elizabeth Jordan (EVE/ESS), Gavin McCullough (CE), John Palmisano (CE), Jessica Shepard (CE/ESS)
Advisor: Suzanne LePage (CEAE)

Net Zero Neighborhood
Alyssa Agugliaro (AREN)
Chloe Dunne (AREN), Marina Tarsi (AREN)
Advisor: Soroush Farzin (CEAE), Harold Walker (CEAE), Leonard Albano (CEAE)

PFAS Treatment System Batch Testing
Anders Pagan (EVE), Chahat Bhanot (EVE), Noelia Cura (CHE), Sofia D'Annunzio (EVE)
Advisor: John Bergendahl (CEAE), Stephen Kmiotek (CE)

Qualifications Package and Proposal for a Progressive Design-Build Airport Expansion
Audrey Titterington (AREN), Carter Alday (CE), Everett Mosher (CE), Olivia Fustini (CE), Brian Nassivera (MGE)
Advisor: Jessica Rosewitz (CEAE)

Redesigning the Boynton Steps
Arielena Lang (CE), Kate Albertelli (CE), Charles Pavis (MGE), Samantha Seng (CE)
Advisor: Aaron Sakulich (CEAE), Steve Taylor (The Business School)

Reimagining Gordon Library
Ethan Smith (ME), Adrian Pawlik (ME), Adam Patterson (CE), Shane McLaughlin (CE)
Advisor: Steven Van Dessel (CEAE), Kedar Prashant Shete (MME), Mingjiang Tao (CEAE), Tahar El-Korchi (CEAE)

Reinforced Concrete 3D Printing
Alex Sheehey (CE/ME)
Advisor: Nima Rahbar (CEAE)

Seismic Design of Cross-Laminated Timber
Aidan Flanagan (CE), Freddie Smith (CE), Mena Youssif (CE), Steven Tran (CE)
Advisor: Leonard Albano (CEAE)

Supporting Transit through Roadway Design
Chima Ibebunjo (CE), Hunter Maher (CE), Nicholas Carobene (CE), Trey Chickering (CE)
Advisor: Suzanne LePage (CEAE)

Treatment Plant Design for Removal of Fe, Mn, and PFAS
Aidan Pian (CE), Beth Turnidge (EVE), Destiny Lum (CE), Kai Shi (EVE)
Advisor: Jeanine Dudle (CEAE)