

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 Kmiolek (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

Arielen 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)