

Civil, Environmental, and Architectural Engineering

POSTER SESSIONS, 12:30pm-3:00pm

Kaven Hall

1. Hôpital Source de Vie

Benjamin Coe (AREN)

Marcos Legros (AREN)

Pratham Patel (AREN)

Spencer Romain (AREN)

Advisor: L. Albano, S. Farzin, N. Ma

2. Urban Cooling Infrastructure Design Informed by Social Network Data Modeling

Vanessa Sam (DS)

Zabelle Simmons (AREN)

Nicholas Sirota (AREN)

Kathy Tran (AREN + ME)

Kathleen Wang (DS)

Advisor: N. Ma, F. Murai, N. Rahbar

3. Auxetic Cementitious Composites

Mahmoud Ahmed (CE)

Advisor: N. Rahbar

4. Comparison of Light-Frame and CLT Construction

Alexander Abrahamsen (CE)

Lucas Amaral (CE)

Kolby Robertson (CE)

Advisor: L. Albano

5. Disaster-Resilient Building Design: Informing Context-Aware Window Choices with Computer Vision

Aidan Bryar (DS)

Sage Fredrich (AREN)

Jacqueline Ngo (AREN)

Collin Shields (CS)

Advisor: N. Ma, F. Murai

6. Intersection Redesign with CTDOT

Kaylee Carr (CE)

Natalie Leigh (CE)

James Mieszczanski (CE)

Charlie Schwartz (CE)

Advisor: S. LePage

7. Culvert Removal and Stream Restoration

Benjamin Hood (CE)
Madison Morales (EVE)
Zarrin Rahman (EVE)
Sarah Saeed (CE)
Advisor: J. Dudle

8. Feasibility of Phytoremediation to Improve Water Quality of Salisbury Pond

Josephine Fazio (EVE)
Emily Graves (EVE + ESS)
Sydney Kerivan (EVE)
Abigail Morris (ESS)
Advisor: J. Dudle

9. High Rise Wood Design

Allison Califano (CE)
Jimmy Espinal (CE)
Marcus Kowalski (AREN)
Tyler Wong (CE)
Advisor: T. El-Korchi, S. Van Dessel

10. Designing for Productivity, Exploring the Cognitive Impact of Architectural Design

Alissa Cloutier (AREN)
Meghan Lyle (DS)
Adrienne Saucier (AREN)
Advisor: M. Ahrens, S. Farzin

11. El Cano Project

Aaron Landry (CE)
Alison Lopez (AREN)
Hillary Quezada (CE)
Elion Sholla (CE)
Advisor: A. Sakulich

12. Feasibility and Design of Granular Activated Carbon (GAC) as a Technology Standard for Drinking Water

Ella Devault (CE)
Meghan Doane (EVE)
Advisor: H. Walker

13. Green Infrastructure for Urban Stormwater Mitigation

William Crawford (EVE)
Caitlyn Dasaro (EVE)
Mickey Mikitarian (EVE)
Ella Moreau (ESS)
Tanner Thatcher (EVE)
Advisor: P. Mathisen

14. Investigating Artificial Intelligence in Construction of Transportation Infrastructure

Akil Morris (CE)
Advisor: J. Rosewitz, J. Ryan

15. Mass Timber Bridge Design and Construction

Erin Brodigan (CE)

Gavin Chieff (CE)

Advisor: J. Rosewitz

16. MBTA Beltway Line

Thomas Burns (CE)

Eric DePiero (MME)

Nicholas Pye (CE)

Advisor: L. Albano, J. Ryan

17. Nanobubbles for Lake Restoration: Preliminary Feasibility and Design Aspects

Sophia Bogartz (EVE)

Advisor: H. Walker

18. Extent Of PFAS Contamination of Drinking Water Sources in Rhode Island

Rebecca Schultz (EVE)

Advisor: J. Bergendahl

19. Quantifying Residential Sources of PFAS

Megan Manning (CHE)

Amelia McDonough (CE)

Sophia Tomaselli (EVE)

Advisor: J. Bergendahl, S. Kmiotek

20. Quarry Concert Hall Design Competition

Ethan Campese (AREN)

Eleanor Fields (AREN)

Felicia Link (AREN)

Lily Ratcliff (AREN)

Advisor: L. Albano, S. Farzin

21. Design of a 3D Printable, Scalable Biochar and Plastic-Based Composite for Heavy Metal Remediation

Anthony Gilbert (CHE)

Nikolaos Pallis (EVE)

Advisor: J. Bergendahl, C. Eggleston, B. Mishra

22. Regional Shared Use Path in the Town of Oxford

Jacqueline Herera (CE)

Advisor: L. Albano

23. Elevating Wellbeing: A New Vision for Health and Fitness

Anthony Cuccovia (CE)

Audrey Dino (CE)

Jack Duryea (CE)

Leah Kolb (AREN)

Advisor: T. El Korchi, S. Farzin

24. Renovation of the Third Floor of Higgins House

Ann Aquino (AREN)

Matthew Hardiman (CE)

Paige Littlehale (AREN)

Benjamin Smola (CE)

Advisor: S. Farzin, J. Rosewitz

25. ACE Engineering Workshop: Kaven Hall Addition

Habibi Haji (AREN)

David Sullivan (AREN)

Benjamin Turner (AREN)

Advisor: S. Liu, J. Rosewitz, S. Van Dessel

26. Sanford Riley Hall Renovation

Jordan Brown (CE)

Margaret Johnston (CE)

Advisor: L. Albano

27. Self-sensing Construction Materials

Justin Liona (CE)

Jack Pszeniczny (CE)

Advisor: N. Rahbar

28. Sensory Driven Design

Veronica Crispin Garcia (AREN)

Elisia McLean (CE)

Peter Tzanetos (CE)

Alexis Vilmenay (AREN)

Advisor: L. Albano, S. Farzin

29. Long Span Structural Design with Glulam-CLT Composites

Aidan Behilo (CE)

Ryann Dionne (CE)

Amber Lyons (CE)

Advisor: L. Albano, M. Richard

30. Renovation of WPI Townhouses for Community Space

Keanna Bruce (AREN)

Jane Curtis (CE)

Annalise Maloney (CE)

Advisor: L. Albano, S. Van Dessel

31. Beaver Conflict Mitigation: Building Roadway Flooding Resiliency in W. Boylston

Mateo Blumenthal (EVE + ESS)

Hildey McCorkell (EVE)

Lydia Ponomarenko (EVE)

Laura Romania (EVE + ESS)

Advisor: J. Dudle

32. The Roman Dodecahedron: A Surveying Tool?

John Donovan (ME)

Maya Gallego-Borkowski (ME)

Elizabeth Howie (CE)

Cassandra Zimmerman (CE + ME)

Advisor: A. Sakulich

33. UP! Sustainable Vertical Expansion for Enhanced Campus Utilization

Dimitris Graikos (PHYS)

Brenna Hannam (AREN)

Tea Magner (AREN)

Amun Spears (CE)

Advisor: I. Stroe, S. Van Dessel

34. Redesigning Bus Transit in Worcester, Massachusetts

Aseel Kambal (CE)

Lottie McLeod (CE)

Oliver Nosal (CE)

Advisor: S. LePage

35. Entrance Evolution: Re-Envisioning WPI's Entry Points

Geethika Chandragiri (CE)

Stephanie Dean (CE)

Taylor Walker (CE)

Advisor: S. LePage, J. Rosewitz