

## **Civil Environmental Architectural Engineering**

### **POSTER SESSION, 12:30pm to 3:00pm Kaven Hall**

#### **Solutions for an Unpaved Road**

Clara Dublin, Shannon Logan  
Advisor: A. Sakulich

#### **Beach Accessibility and Conservation**

Nadiya Chalak, Catie Coumounduros, Madison  
Garrity, Colette Webster  
Advisor: S. Lepage

#### **Framingham Stormwater**

Adele Brochu, Evan Rios, Kali Sander, Caitlin  
Strzegowski  
Advisor: S. Lepage, P. Mathisen

#### **Improving Traffic Safety During Arrival and Dismissal at the Quinsigamond School**

Rachel Flanagan, Morgan Ruoss  
Advisor: S. Lepage

#### **Route 122-Airport Rotary Intersection Redesign in Worcester**

Mitchell Decelles, Theron Howe, Azat  
Mukhametkulov, Ritesh Prasannakumar  
Advisor: S. Lepage

#### **Mental Health in a New WPI Residence Hall**

Christopher Cavallaro, Aidan Murphy, Thijs  
Seppenwolde, Nicholas Willey, Noah Willey  
Advisor: J. Rosewitz, N. Rahbar, J. Ryan

#### **Designing Affordable Housing in Ghana**

Hannah Frieden, Kyle Mann, Eda Raycraft, James  
Scalise, Margot Schassler  
Advisor: S. Van Dessel, N. Rahbar, P. Kruger

#### **Tomorrow's Hurricane Resilient Hub; Designing Modular Shipping Containers for the Mountainous Region of Puerto Rico**

Holly Hazelton, Makayla Delo, Emily Deptula,  
Aradhana Bissoondial  
Advisor: S. Van Dessel, T. El-Korchi, N. Ma

#### **Porous Concrete for Microflush Toilet Technologies**

Justin Aguilar, Michael Peck, David Omura, John  
Lowther  
Advisor: A. Sakulich, R. Kruger

#### **Design a Tiny House on Wheels for Wildfire and Indoor Air Quality Research and Teaching**

Hannah Rodenbush, Hannah Frank, Nathalie  
Martin-Nucatola  
Advisor: S. Liu, S. Van Dessel, N. Rahbar

#### **Thermal Performance of Nanoparticle Reinforced Enzymatic Construction Materials**

Georgy Zhukov, Anne McNamara  
Advisor: S. Van Dessel, N. Rahbar

#### **Tatnuck Brook Bridge Design**

Patrick Nieman, Elizabeth Valentine  
Advisor: L. Albano

#### **Performing Arts Center Design for WPI**

Adam Bartlett, Mark Delia, Emily Jorden, Fatimah  
Wattar  
Advisor: L. Albano

#### **Design of Terminal E at Logan Airport**

Kristin Stilin, Melanie Castillo, Mike Maffeo, Jacob  
Gassenheimer  
Advisor: T. El-Korchi

#### **Revised Affordable Housing for the Modern Family**

Danforth Kennerson, Lucas Kamal, Talia  
Mamayek, Max Wojtas  
Advisor: S. Farzin, C. Brown, L. Albano

#### **Design a Net-Zero and a Resilient Building for Heatwaves**

Stefanie Beaudry, Vanessa Bussiere, Sarah  
Johnson, Athina Theofilou  
Advisor: S. Liu

#### **Water Contamination from Fire Events**

Emily Mullin, Dayna Tang, Luke Marcoux  
Advisor: J. Bergendahl, A. Rangwala, Jagan

#### **Regulating Human Emotional States in Build Environment**

Gianna Viele, Phebe Cunningham, Sebastian

Villacorta, Hailey Anderson, Nicholas Whalen,  
Payton Dean  
Advisor: S. Farzin, A. Yousefi, L. Albano

**PFAS Phase Friction**

Shannon Henderson, Richard Widman, Ryan  
Trongone  
Advisor: J. Bergendahl, S. Kmiotek

**Sudbury Renewable Renovations & Structures  
Project**

Keira Coulard-Smith, Sophia Callandrello, Derek  
Childs, Danielle Gonzalez, Lana Vilcinskas  
Advisor: P. Mathisen, C. Eggleston, S. Van Dessel

**Feasibility Study for Sustainable Development  
in the US**

Adam Shi, Adam Dincher, Karris Krueger  
Advisor: S. Farzin, S. Van Dessel

**Re-Evaluated WPI Campus Access**

Morgan Hughes  
Advisor: N. Rahbar