

IIHCC

Solving problems that exist at, and along, the interdependencies between humans, community, and infrastructure to ultimately improve quality of life.

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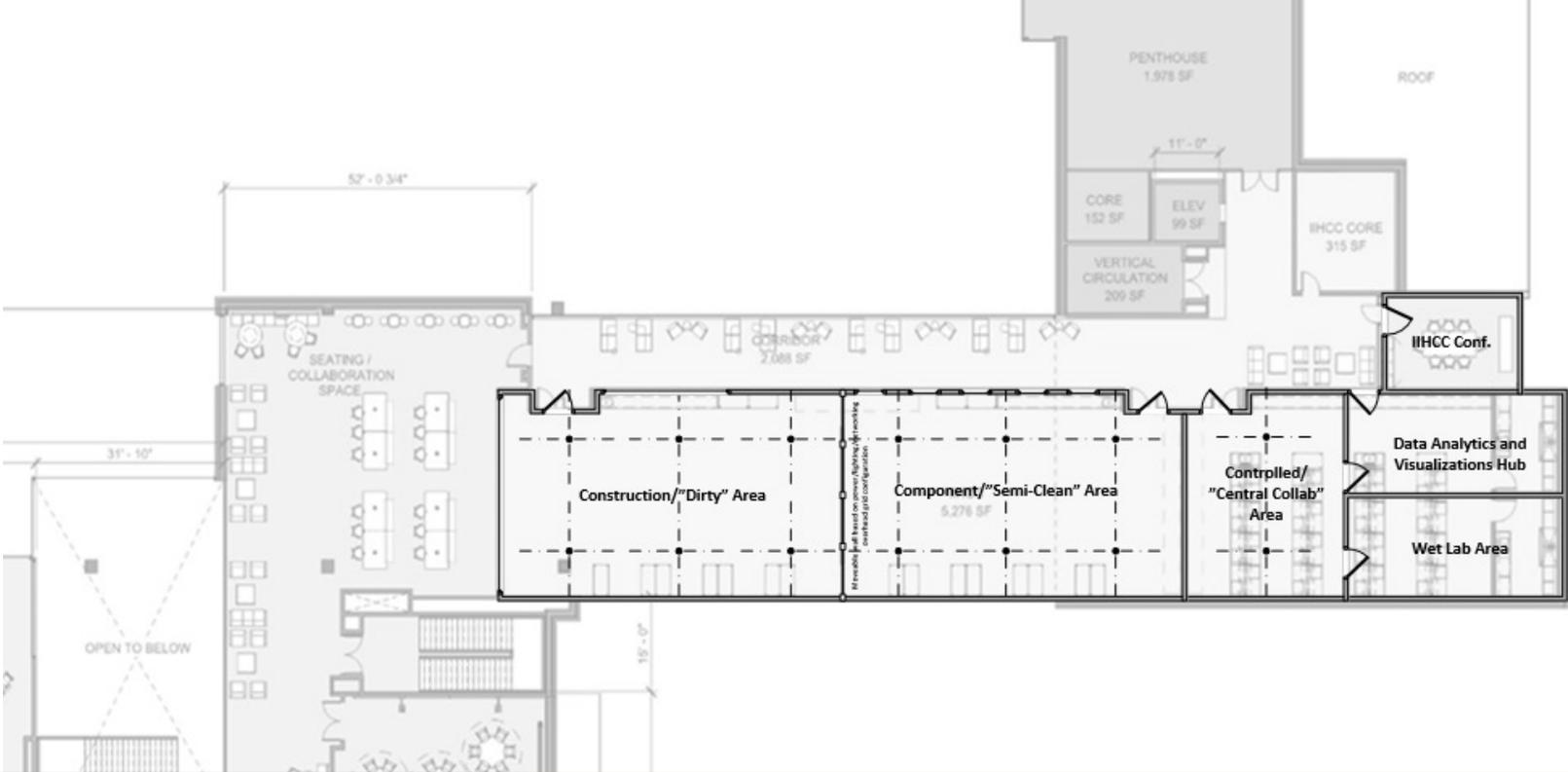
- **10/31** - LSIE Department Heads Meeting: DA/SGA Cluster Hires
- **11/6** - IIHCC Curriculum Meeting
- **11/22** - Happy Thanksgiving
- **11/27** - IIHCC Monthly Stakeholder Update Meeting
- **11/29** - Intelligent Infrastructure Meeting: Hitt Hall and IIC
- **11/29** - Intelligent Infrastructure

If you have any question, comments, or concerns, please contact us:

Program Manager: Tracy McElroy
tmcelroy@vtti.vt.edu | 540-231-7366

Project Analyst: Jordan Erisman
jerisman@vtti.vt.edu

For more information about IIHCC, [visit our website](#)



TRAIN TALKS

Recently, IIHCC members met with the Human-Centered Communities Working Group (HCCWG) and the Research Working Group (RWG) to discuss ideas for TRAIN Talks. During the meeting, the discussion led to the idea of “setting the goal post,” or defining “intelligent infrastructure” and “human-centered community.” To address this, it was suggested that an expert in the field of either Intelligent Infrastructure or Human-Centered Communities from outside the University come and speak about his or her experiences and research.

This presentation will help attendees gain a better understanding of what drives IIHCC and defines the program’s vision of future research, curriculum, and facilities at Virginia Tech. This first presentation will also set the benchmark for future TRAIN Talks.

The date of the first TRAIN Talk will be in early spring 2019. This will allow enough time to establish a review process for proposals, determine metrics for success, reserve a location, and develop a schedule for the event.

If you have any questions about this event or suggestions that you would like to see, please do let us know at IIHCC@vti.vt.edu.

HITT HALL AND INTELLIGENT INFRASTRUCTURE COMPLEX

Collaborating with Lord Aeck Sargent, the architecture firm working on the HIT Hall and Intelligent Infrastructure Complex, IIHCC has updated plans for space allocation. It has been proposed that there should be three broadly functional areas: a “dirty” construction area, a “semi-clean” area, and a “controlled” area. The “dirty” area would allow for research in areas such as smart design construction, housing innovation, and materials. The “semi-clean” area would be used for research involving robotics and autonomous vehicle systems, energy, and sensors, and as a space for final assembly. The “controlled” area would allocate space for data analytics and visualizations, ubiquitous mobility, sensors, and augmented and virtual reality (AR/VR). Discussions are ongoing to ensure that equipment can be moved in, out, and around the space, and that a framework is provided for sensor placement. IIHCC is working alongside C+I Destination Area and the Institute for Creativity, Arts, and Technology (ICAT) to develop the IDEA Space, an AR/VR lab similar to the Moss Art Center’s Cube. The IDEA Space will house unique equipment, including a crane system working in tandem with the Myers-Lawson School of Construction’s Innovation Space.

RURAL HEALTH RFP

In conjunction with the Learning Systems Innovation and Effectiveness (LSIE) Office, participating Destination Areas (DAs) and Strategic Growth Areas (SGAs), and matching funds from investment institutes, IIHCC participated in and provided funding for a Rural Health RFP. The selection committee identified a total of five proposals to receive funding toward research in rural community health. We look forward to continuing such partnerships to advance the Beyond Boundaries vision.

CURRICULUM

As part of the development of transdisciplinary education with a human-centered focus, this semester IIHCC is piloting a Pathways course, Ethical Perspectives on Intelligent Infrastructure (PHIL 2984). Two new Pathways courses, The Future is Now: Reinventing Community in the 21st Century (STS 2984), and Ethical Perspectives on Intelligent Infrastructure (PHIL 2984), are set for governance in early 2019, to be offered during the fall semester of 2019.

