



April 25–26, 2019



INDIANA UNIVERSITY

## INTERNET OF THINGS WEARABLES IN MOTION SYMPOSIUM

The Indiana University School of Informatics, Computing, and Engineering—in close collaboration with Innovate Indiana, the IU Research and Technology Corp., The Mill and the Indiana IoT Lab—will host academic and industrial experts to discuss wearables and the Internet of Things (IoT) on April 25-26, 2019.

The symposium will bring together thought leaders and innovative product developers that design IoT wearables for fashion, athletics, medical, and military applications. Topics to be addressed include novel sensors and actuators, scalable and secure cyberinfrastructures, ownership of generated data, fashion trends in wearables, visual analytics of IoT data, and more.

Keynote talks and evening events are open to the public. Experts and practitioners from academia, industry, government, defense, retail, the arts, and other sectors are welcome.

### Locations

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Luddy Hall  
700 N. Woodlawn Ave.  
Bloomington, IN 47408

The Mill  
642 N. Madison St.  
Bloomington, IN 47404

For information call:  
**812.8955.9930**

**REGISTER:** <https://bit.ly/2DfeV42>

### Organizers

Tony Armstrong  
Katy Börner  
Lisel Record  
John Wechsler  
Jason Whitney

### Participants

Rudy Banerjee  
Philip Beesley  
Andreas Bueckle  
Bo Choi  
Kay Connelly  
Mike Dodd  
Shawn Goodwin  
Mike Hu  
Florence Hudson  
Christian McKay  
Mitch Parker  
Jason Pennington  
Karthik Ramani  
John Wechsler  
Matt Wyatt

## Day 1 – Thursday, April 25, 2019: Academic Focus

- 12:00pm Welcome by Organizers (Luddy 3006)
- 12:30pm Brief Presentations of R&D by Participants (Luddy 3006)
- 1:30pm *Social Networking Break* (Luddy 3006)
- 2:00pm Keynote (Luddy 3166) ★  
**John Wechsler & Jason Pennington**, Indiana IOT, “Lab Engagement, Skills Development, and the Future of IoT in Indiana”
- 3:00pm Speakers (Luddy 3006)  
**Kay Connelly**, Indiana University  
**Karthik Ramani**, Purdue University  
**Bo Choi**, Indiana University, “Fashion Trends and Collaboration with Art & Design and Wearable Technology”
- 4:00pm *Social Networking Break* (Luddy 3006)
- 4:30pm Brainstorm: Opportunities & Challenges (Luddy 3006)
- 6:00pm *Reception at The Mill* ★

## Day 2 – Friday, April 26, 2019: Corporate Focus

- 8:30am *Breakfast* (Luddy, 4th Floor)
- 9:00am Tour to showcase campus research facilities and capabilities (Luddy 4150)  
**Christian McKay**, IU, SICE Maker Spaces
- ISE Fab Lab
  - Proto Lab II
  - Protolab: Design Research Cafe
- Andreas Bueckle**, IU, ISE Vis Lab
- 10:30am Speakers (Luddy 4063)  
**Matt Wyatt**, CEO of Recovery Force “Wearable Technology in Health and Sport”  
**Florence Hudson & Mitch Parker**, Center for Applied Cybersecurity Research and IU Health, “Protecting Health Wearables from Cyber Attack”  
**Mike Dodd**, IN3, “Wearable Devices for Warfighter Health”  
**Shawn Goodwin**, IU Center for Elite Athlete Development, “Data Visualization in Elite Athlete Performance”
- 12:30pm *Lunch* (Luddy 4063)
- 1:30pm Keynote (Luddy 0117) ★  
**Philip Beesley**, Living Architecture Group, Toronto, Canada, “Diffusive Architecture: Pluripotent Fate-mapping”
- 2:30pm *Social Networking Break* (Luddy 4063)
- 3:00pm Second Best Ideas (Luddy 4063)
- 5:00pm Reception in Luddy Hall (Luddy, 4th Floor) ★  
*IU's First Lady Welcome*  
**Laurie Burns McRobbie**, Indiana University's First Lady  
*Deans' Welcome*  
**Raj Acharya**, Dean, School of Informatics, Computing, and Engineering  
**Peg Faimon**, Founding Dean, School of Art, Architecture + Design  
**David B. Allison**, Dean, School of Public Health
- Demonstrations featuring IoT wearables throughout the Fourth Floor*  
**Vafa Andalibi, Joshua Streiff, Sanchari Das**, SPICE, IU, “Securtle: The Security Turtle”  
**Rudy Banerjee**, Geography & GISc, IUPUI, “One Trillion Drone Trips. Are you Ready?”  
**Andreas Bueckle**, ISE, IU, “TAVOLA IoT Data Visualizations”  
**Weizhe Chen, Zheng Chen, Malintha Fernando, Pavan Saranguhewa, Junhong Xu & Lantao Liu**, ISE, IU, “Vehicle Autonomy and Intelligence”  
**Mike Hu**, IU, “Amatria Sentient Architecture”  
**Gwen Law**, IU Opera and Ballet Theater, IU, “Beasts of the Amazon” (*Florenca en el Amazonas*)  
**Gregory F. Lewis, Shyam Shah, Sujata Punait, Britain Taylor & Logan G. Holmes**, ISE, IU, “Noncontact Sensing”  
**Christian McKay**, Informatics, IU, “Speaker Project”  
**Joshua Streiff, Olivia Kenny, Sanchari Das, Andrew Leeth, and L. Jean Camp**, SPICE, IU, “Who's Watching Your Child? Smart Toy Bear”