



**Wisconsin Institute for  
Healthcare Systems Engineering**  
UNIVERSITY OF WISCONSIN-MADISON

# AWORD FROM WIHSE

SUMMER 2021

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## News

### WIHSE DIRECTOR, PASCALE CARAYON, RETIRES AND NICOLE WERNER APPOINTED AS NEW DIRECTOR

We would like to express our sincere gratitude to our founding director, Professor Pascale Carayon, for her leadership of WIHSE. It was Pascale's vision to transform health care through engineering that brought forth the idea of WIHSE and, through her leadership, WIHSE officially became recognized as a UW-Madison research institute in 2017. WIHSE has had many successes including awarded grants with results that have directly impacted numerous communities and WIHSE has had a profound impact on the development of long-term interdisciplinary relationships between engineers and health care researchers and professionals. Listen to Pascale's keynote presentation on the journey of the Systems Engineering Initiative for Patient Safety (SEIPS): [Human Factors and Systems Engineering in Health Care ; The SEIPS Journey - YouTube](#). We wish Pascale all the best in the next phase of her life and look forward to hearing about what she will do next!

WIHSE is very excited to welcome Professor Nicole Werner as the new director of WIHSE. Nicole brings a wealth of knowledge and experience and we look forward to this next year as she introduces health equity as a priority for WIHSE research. The quadruple aim has been the focus of WIHSE but, to truly achieve the quadruple aim, health equity needs to be at the foundation of all that we do. The vision of WIHSE will be updated to make health equity a priority: "The vision of WIHSE is to be recognized as a world class research institute that transforms health care through engineering, positioning us to revolutionize healthcare by improving health equity, the patient experience, the clinician satisfaction, and population health." This next year WIHSE will work with the executive committee and faculty affiliates to create and implement an action plan to achieve this new vision.

### 2021 WIHSE CONFERENCE

The third WIHSE conference was held virtually on May 11 and May 12, 2021. Registered to attend were 152 speakers, faculty, researchers, and students from the University of Wisconsin,

UW Health, collaborating academic institutions, and industry. A diverse group of WIHSE faculty and affiliates from multiple disciplines and clinical domains participated in presenting research on the COVID-19 response and the future of WIHSE research. Of particular significance was the session highlighting WIHSE interdisciplinary research where both an engineer and a health sciences researcher discussed the benefits, challenges, takeaways and future expectations in their collaborative research. Listen to WIHSE Director, Professor Pascale Carayon, present on “Developing Health Care Systems Engineering Research: Stories and Reflections on an Interdisciplinary Journal”: [Mediasite - Mediasite Channel \(wisc.edu\)](#). WIHSE Executive Committee members will review conference discussion items in their next meeting to determine next steps in the WIHSE research agenda.

We would like to express our sincerest thanks to all who participated in the 2021 WIHSE Conference!

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## **Congratulations are in order!**

### WIHSE DIRECTOR, NICOLE WERNER, RECEIVES TENURE AND PROMOTION

Congratulations to our WIHSE Director for receiving tenure and promotion to Associate Professor. This is a well-deserved promotion and we are excited for you!

### WIHSE EXECUTIVE COMMITTEE MEMBER, GABRIEL ZAYAS-CABAN, RECEIVES ICTR KL2 SCHOLAR AWARD

Congratulations to Professor Gabriel Zayas-Caban for receiving the ICTR KL2 Scholar Award! He will be investigating, ‘The Average Effect of Emergency Department Admission Decisions for Older Adults with Chest Pain, Abdominal Pain, or Syncope’.

### [WIHSE DIRECTOR, NICOLE WERNER, RECEIVES NIH GRANT FOR TECHNOLOGY TO ASSIST DEMENTIA CAREGIVERS](#)

Congratulations to Professor Nicole Werner for receiving an NIH grant to “apply a user-centered design process to develop an information technology-based intervention to help caregivers

responsible for managing medications of patients with Alzheimer’s disease and related dementias”.

#### [WIHSE GRADUATE AWARDEE, HANNA BARTON, PUBLISHES PAPER ON MEDICAL DEVICE WORKAROUNDS](#)

Congratulations to our first WIHSE Graduate Awardee, Hanna Barton, for publishing her first, first-author paper on medical device workarounds in the home for children with medical complexities in the prestigious journal, Pediatrics! [Medical Device Workarounds in Providing Care for Children With Medical Complexity in the Home | American Academy of Pediatrics \(aappublications.org\)](#)

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### **Publication Highlights**

- CancelRx: a health IT tool to reduce medication discrepancies in the outpatient setting [CancelRx: a health IT tool to reduce medication discrepancies in the outpatient setting | Journal of the American Medical Informatics Association | Oxford Academic \(oup.com\)](#)
- The Development and Content Validation of the Care Partner Hospital Assessment Tool [Nursing Reports | Free Full-Text | The Development and Content Validation of the Care Partner Hospital Assessment Tool | HTML \(mdpi.com\)](#)
- Workflow integration analysis of a human factors-based clinical decision support in the emergency department [Workflow integration analysis of a human factors-based clinical decision support in the emergency department - ScienceDirect](#)
- Implementation of an antibiotic stewardship intervention to reduce prescription of fluoroquinolones: A human factors analysis in two intensive care units [Implementation of an antibiotic stewardship intervention to reduce prescription of fluoroquinolones: A human factors analysis in two intensive care units](#)
- Disparate perspectives: Exploring healthcare professionals’ misaligned mental models of older adults’ transitions of care between the emergency department and skilled nursing facility [Disparate perspectives: Exploring healthcare professionals' misaligned mental models of older adults' transitions of care between the emergency department and skilled nursing facility - ScienceDirect](#)

- Medical Device Workarounds in Providing Care for Children with Medical Complexity in the Home [Medical Device Workarounds in Providing Care for Children With Medical Complexity in the Home | American Academy of Pediatrics \(aappublications.org\)](#)
- SEIPS 101 and seven simple SEIPS tools [SEIPS 101 and seven simple SEIPS tools | BMJ Quality & Safety](#)

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