



Wisconsin Institute for Healthcare Systems Engineering

UNIVERSITY OF WISCONSIN-MADISON

[Dr. Patricia Flatley Brennan, Director of the National Library of Medicine, Announced as Closing Keynote](#)

WIHSE is glad to welcome back Dr. Brennan to the WIHSE conference. The recording of Dr. Brennan's presentation from 2017, "Anticipating the 3rd Century of the NLM: Driving Discovery from Data and how HSE fits into the future" can be found [here](#).

Dr. David Bates, Senior Vice President and Chief Innovation Officer for Brigham and Women's Hospital, will be the keynote speaker in the opening session. The agenda for this year's conference is now available on our [website](#) and is updated regularly. [Register](#) for the conference today, and share with your friends and colleagues interested in using engineering to transform healthcare.

You may also be interested in the National Academy of Engineering regional meeting, happening the next day on May 3rd. The theme this year is "Transforming Healthcare through Engineering," you can find more information at <http://nae.engr.wisc.edu/>



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WEDNESDAY, MAY 2, 2018—WISCONSIN INSTITUTE FOR DISCOVERY

THEME: ACHIEVING SMART AND CONNECTED HEALTH CARE: AN ENGINEERED HEALTHCARE SYSTEM

8:00-8:30	<ul style="list-style-type: none">● Pascale Carayon, PhD, Procter & Gamble Professor in Total Quality, Industrial and Systems Engineering; Director, WIHSE● Ian Robertson, PhD, Dean, UW College of Engineering● Robert Golden, MD, Dean, UW School of Medicine and Public Health● Steven Swanson, PhD, Dean, UW School of Pharmacy● Barb Bowers, PhD, RN, FAAN, Professor, Associate Dean for Research, and Charlotte Jane and Ralph A. Rodefer Chair, School of Nursing	<ul style="list-style-type: none">● Welcome and Conference Overview
8:30-9:30	<ul style="list-style-type: none">● David Bates, MD, Senior Vice President and Chief Innovation Officer for Brigham and Women's Hospital	<ul style="list-style-type: none">● What Are the Critical Healthcare Needs That Engineering Is Best Equipped to Respond to?
9:30-10:45	<ul style="list-style-type: none">● Pascale Carayon, PhD, Procter & Gamble Professor in Total Quality, Industrial and Systems Engineering; Director, WIHSE● Jingshan Li, PhD, Professor, Industrial and Systems Engineering; Associate Director, WIHSE	<ul style="list-style-type: none">● Engineering Responds – <i>Healthcare 4.0</i>
10:45-11:00		Break
11:00-Noon	<ul style="list-style-type: none">● Dan Thoma, PhD, Director, Grainger Institute for Engineering, moderator● Chris Dymek, Ed.D. Director, Health IT Division, Agency for Healthcare Research and Quality (AHRQ)● Shannon Dean, MD, Vice President and Chief Medical information Officer, UW Health	<ul style="list-style-type: none">● External Stakeholder Panel -- <i>Engineering at the Edge</i>
Noon-1:00		Lunch
1:00-2:30	<ul style="list-style-type: none">● Synthesis of the morning● Group activity – Attendees self-select research most interested in from topics identified in morning and develop study outline or high-level agenda for topic	<ul style="list-style-type: none">● <i>"Pursuing the Agenda"</i>
2:30-2:45		Break
2:45-3:45	<ul style="list-style-type: none">● Group activity – A "Gallery Walk" during which conference participants share results of the previous group efforts and vote on project(s) with most potential to have an impact	<ul style="list-style-type: none">● <i>"Sharing the Results"</i>
3:45-4:45	<ul style="list-style-type: none">● Patricia Flatley Brennan, PhD, Director, National Library of Medicine	<ul style="list-style-type: none">● High-reliability Health Care Systems and the NLM—Making It Happen
4:50-5:00	<ul style="list-style-type: none">● Oguzhan Alagoz, PhD, Professor, Industrial and Systems Engineering; Associate Director, WIHSE	<ul style="list-style-type: none">● Conference Wrap-up
5:00-6:30		Evening Reception and Poster Session

[Oguzhan Alagoz Evaluates Interventions for Containing *C Diff.*](#)

In a study published in the journal *Clinical Infectious Diseases*, WIHSE Associate Director and Industrial and Systems Engineering Professor Oguzhan Alagoz evaluated interventions for containing the spread of *Clostridium difficile*, a colon-infecting bacterium that can cause life-threatening diarrhea in hospitalized patients whose immune system is already weakened from chemotherapy or an organ transplantation.

[Nicole Werner Explores How Personal Health Information Management is Performed at Home](#)

Nicole Werner, WIHSE Executive Committee member and Industrial and Systems Engineering Assistant Professor, used a 3D virtual reality CAVE that enabled participants who had been diagnosed with diabetes to describe how they would perform personal health information management in the home context. Her new paper "Home is where the head is: a distributed cognition account of personal health information management in the home among those with chronic illness" is published in the journal *Ergonomics*.

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