2015 Healthcare Engineering & Patient Safety Symposium

Monday, September 28th
5 – 7:30 p.m.
North Campus Research Complex (NCRC)
Building 18, Dining Hall & Adjacent Hallway

Join us to learn more about how the Center for Healthcare Engineering and Patient Safety (CHEPS) is improving the safety and quality of healthcare delivery by identifying, fostering, and promoting collaborative projects across the University.

Posters and presentations represent collaborations between:
- Engineering
- Medical School
- School of Public Health
- School of Nursing
- UMHS
- and more...

“I think it’s just the start. I think the big thing is to get a dialogue going between both the clinicians and other healthcare folks and the engineering side of the house... in a more successful way than we probably have in the past.”

- Jim Bagian, Director of CHEPS
Schedule of Events

5:00 – 7:30
Live music by a classical trio of U of M students & alumni, refreshments, posters from units & researchers across the university & beyond, networking.

5:30
Welcome and remarks by Jim Bagian, CHEPS Director, and Amy Cohn, CHEPS Associate Director.

5:45
Attendees will have a chance to attend brief presentations at each poster as the presentations are being filmed.

5:45 - 6:15: GS01 - P08
6:15 - 6:45: P09 - P22
6:45 - 7:15: P23 - P38

7:00
Ballots due for Best Poster Award. Turn in at registration table.

7:15
Poster award announcement, raffle prizes, closing remarks, and more...

Games and Simulations

GS01  Flow Visualization at C.S. Mott Children's Hospital
Hassan Abbas, Mark Grum, Brooke Szymanski, Amy Cohn, Michelle Macy, and Allison Cator

GS02  Phlebotomy Simulation
Ajaay Chandrasekaran and Jonathon McCormick

GS03  A Simulation-Based Tool to Improve Matching of Trainees to Surgical Opportunities
Billy Pozehl, Amy Cohn, Rishi Reddy, Jake Seagull, and Mark Daskin

GS04  Patient Appointment Scheduling Game
Nina Scheinberg

Posters

P01  Care at Home
CAH

P02  Michigan Center for Integrative Research in Critical Care
M-CIRCC

P03  Documentation using Discrete Fields or Free-Text in Mi-Chart: Implications for Research
Andrea Bouwhuis and Michelle Macy

P04  Referral Patterns from Pediatric Care Clinics to the Emergency Department
Molly Laux, Christina Grech, Michelle Macy, Heather Burrows, and Elaine Pomeranz

P05  The Seth Bonder Foundation
CHEPS and The Seth Bonder Foundation

P06  Seth Bonder
CHEPS and The Seth Bonder Foundation

P07  Institute for Healthcare Improvement Open School
IHI Open School

P08  Using Optimization Techniques to Improve the Shift Scheduling of Operating Room Staff
Kayse Lee Maass, Mark S. Daskin, Kerstin Rider, Amy McGonegal, Laura Feuerbacher, and Emily Tucker

P09  Simulating a Medical Observation Unit for a Pediatric Emergency Department
Mark Grum and Gabriel Zayas-Caban

P10  Data Quality and Strategy for Healthcare Providers and Payers under Pay-for-Performance
Xuanya (Bill) Zhang

P11  Optimization of OR Block Schedule
Mary Duck, Sachin Kheterpal, and Jenny Pardo

P12  Surgery Scheduling with Recovery Resources
Maya Bam, Brian Denton, Mark Van Oyen, Mark Cowen

P13  Institute for Healthcare Policy & Innovation
IHPI

P14  Learning Health System
LHS

P15  Glove Box - Secure Cloud Computing For Research At UM
Patrick Brady, Sharon Broude Geva, Tony Markel, and Brahmajee Nallamothu

P16  Scheduling Medical Residents With Conflicting Requests For Time-Off
Brian Lemay, Amy Cohn, and Marina Epelman

P17  A Stochastic Programming Approach to Reduce Patient Wait Times and Overtime in an Outpatient Infusion Center
Jeremy Castaing, Amy Cohn, and Brian Denton

P18  Predicting Deliveries in a Labor and Delivery Unit
Vanessa Morales

P19  Advancing Hospital Institutional Objectives Through Engineering Applications
Joseph East, Suneela Nayak, Jorden Peck, and Jeff Sanders

P20  Human infrastructure for Patient Safety: PASQUAL Scholars Program
F. Jacob Seagull, Grant Greenberg, and Joe Derosier

P21  Policy Approximation for Optimal Treatment Planning
Wesley Marrero, Greggory Schell, Mariel Lavieri, Jeremy Sussman, and Rodney Hayward
Poster Voting & Raffles

Turn in your ballot at the registration table before 7pm to vote for the People’s Choice Best Poster Award!

Tweet with hashtag #cheppsymposium for a chance to win a raffle prize. And keep an eye out for other raffle prize opportunities throughout the symposium!
Poster, Game, and Simulation Locations