News on IEM Member COVID-19 Efforts

Chris Hogan Develops Aerosol Booth for Coronavirus Testing
Phone Booth Invention to Increase COVID-19 Testing Capacity and Save PPE >

Vadim Gurvich Leads Team that Produced Hand Sanitizer for M Health Fairview
UMN Collaboration Produces Thousands of Gallons of Hand Sanitizer >

Steve Saliterman Leads Team that Develops & Produces Urgently-Needed Hospital Gowns
A Gown for University of Minnesota Students Saved Local Hospitals from Running Out of PPE >

David Boulware Discusses Safety of Hydroxychloroquine and Status of Trials with CNN
Transcript >

Students of Nikos Papanikolopoulos Developing Robot to Help Care for ER Patients
With MNRI Assistance, UMN Robotics Student Group to Develop Robot that Administers Medical Care >

IEM News

IEM Hosts All-Hands COVID-19 Meeting to Celebrate Achievements and Build to Future Collaborations

On May 20th, IEM convened more than 40 people who have participated in UMN efforts to address urgent needs of frontline healthcare workers, including ventilators, masks, isolation gowns, an aerosol booth for the testing of patients, and a negative airflow box for the intubation and extubation of patients on ventilators. The needs for these products were identified by M Health Fairview clinicians and administrators, who then collaborated with faculty members from the College of Science & Engineering, College of Design, School of Public Health, and Medical School. “It is so exciting to see what we
are able to do through the partnership between M Health Fairview and the various University academic departments,” says LeAnn Born, Vice President of Supply Chain at Fairview Health Services.

The event was organized by IEM member Dr. William K. Durfee. Professor Durfee has played a lead role in the development and production of the masks, and he co-directs IEM's Clinician Engagement Program with IEM Associate Director Dr. Paul A. Iaizzo and Dr. Bradley J. Benson, Chief Academic Officer in the Medical School.

2020 Virtual Design of Medical Devices Conference Holds Three-in-Five Competition & Cyber Security Sessions

- More than 80 people viewed the Three-in-Five Competition.
- More than 50 Rapid-Fire Presentations of contributed papers submitted by video and available for viewing by all on the DMD YouTube channel.
- The Student Design Showcase went well!
- The Cybersecurity Session is available to view

IEM Member Highlights

Angela Panoskaltsis-Mortari Elected as AIMBE Fellow
AIMBE 2020 Fellows >

Kamil Ugurbil & Essa Yacoub Among Authors of Research on Multivoxel Pattern of Blood Oxygen Level Published in Nature Scientific Reports
Nature Scientific Reports Article >

Mike Garwood and Francis Shen are now featured in an NIH video on Ethical Implications of Highly Portable MRI Technology; Partially Filmed at CMRR
NIH Brain Initiative Programs/Neuroethics >

Announcements

Upcoming 2020 Virtual Design of Medical Devices Conference Sessions

- Valuation Competition (June 2nd)
- COVID-19 Innovation Session (June 9th)
- Biosensors (June 16th)
- Wearables (June 23rd)
- Dental (June 30th)

DMD Website >