News on IEM Member COVID-19 Efforts

Susan Arnold Discusses Minimizing Safety Risks for People Returning to Work with the Washington Post
Five-Step Plan for Reopening Business Gets a Test Run in China >

Art Erdman Discusses Conventor Ventilator’s FDA Approval with Star Tribune
FDA Approves Production of Device Designed at University of Minnesota to Help Covid-19 Patients Breathe >

Gwen Fischer and Physician Colleagues, Hai-Thien Phu and Kumar Belani, Work with ME Professor Chris Hogan and CSE Machine Shop to Develop Aerosol Boxes to Shield Clinicians from COVID-19
New Protective Device for Healthcare Professionals >

David Pui Discusses DIY Masks with Wall Street Journal
Do DIY Masks Help Stop Coronavirus? >

Rhonda Franklin Discusses Homemade Masks with KARE11
MDH: Wearing Homemade Facemasks in Public Not a Bad Idea >

Team Led by Jian-Ping Wang and Maxim Cheeran Developing Portable Virus Detection Device
Portable Virus-Detection Device On its Way >

Sophia Vinogradov discusses a Peer-Focused Support Group for Healthcare Workers with MPR
Matching Health Workers with Peers to Ease Stress of Fighting Pandemic >
Joe Gaugler Discusses Risks to Seniors in Long-Term Care with Star Tribune
Amid Mounting Death Toll, Minnesota Officials Scramble to Find Safe Places for Seniors >

IEM News

IEM-Led Team Awarded $200,000 NSF RAPID Grant for COVID-19 Diagnostic development
An IEM-organized team has been awarded a $200,000 NSF RAPID grant to develop rapid, inexpensive COVID-19 diagnostics in point-of-care settings like doctors’ offices, urgent care clinics, emergency rooms, and temporary medical facilities like screening stations at airports.

IEM Member Highlights

David Jacobs Leads Study Showing that Youth Smokers Are More Likely to Become Daily Smokers as Adults
Kids or Teen Smokers Are Less Likely to Kick Habit as Adults >

Alik Widge Co-Authors Research Showing that Magnetic Nanoparticles Can Remotely Control Release of Potentially Harmful Stress Hormones
Researchers Achieve Remote Control of Hormone Release Using Magnetic Nanoparticles >

Steve Koester to Lead Minnesota Nano Center
Announcement of Appointment >

IEM Members Among Distinguished McKnight University Professors & McKnight Presidential Fellows

Distinguished McKnight University Professors:
Essa Yacoub, CMRR, Medical School
Probing brain function and organization with high spatial and temporal precision via high field MRI

McKnight Presidential Fellows:
Timothy Kowalewski, Mechanical Engineering, College of Science and Engineering

Lana Yarosh, Computer Science and Engineering, College of Science and Engineering
Announcements

IEM BioSciTech Held Virtually
The Institute for Engineering in Medicine (IEM) second annual BioSciTech Symposium took place on Tuesday April 7, 2020 via ZOOM Webinar, and explored the frontiers between engineering, biological science, and biotechnology through academic talks and collaborative activities.

Agenda & Speaker Gallery >
Full Playlist of Talk Videos >

Design of Medical Devices 2020 Conference will be Held Virtually
The Design of Medical Devices Conference (DMD) is excited to announce that they have re-imagined the format for the 2020 conference and will be going virtual. Rather than a 4-day conference, the sessions will be spread out over the coming weeks and months. There will be hosted virtual events and hot topic sessions, with some events recorded while others are interactive. Visit the DMD website for more information about topics that include:

- Emerging Technology Forum "Artificial Intelligence and Medical Devices"
- Cybersecurity
- Clinical Cases
- COVID-19 Innovations at the UMN
- Rapid Fire Paper Presentations (Available online May 5 through July 31)
- Student Design Showcase (Flipgrid Event begins May 5)
- Three-in-Five Competition (Zoom Event May 19)

Additional topics and sessions will be added as they are confirmed. Detailed information about each event/session will be sent shortly before they go live. Subscribe to the DMD Mailing list so you don't miss out.