IEM News

New grant expands IEM’s Cancer Bioengineering Initiative
A multi-investigator team led by IEM member Dr. Paolo Provenzano, professor of Biomedical Engineering, was recently awarded an NIH grant to fund the Center for Multiparametric Imaging of Tumor Immune Microenvironments (C-MITIE). The proposed research aims to … (read more [here]).

Advanced Cardiac Physiology & Anatomy course attracts industry and University students
The Advanced Cardiac Anatomy Course was held at the beginning of January 2022 and attracted 145 students, 110 of whom were from biomedical engineering companies in the metro and surrounding areas.

Elise Higgins, Senior Engineering Director of Systems Engineering at Medtronic, attended the course with members of her team and shared her positive experience with the course with IEM. (read more [here]).

Former Gopher hockey player wants to better diagnose and treat balance issues in Parkinson’s patients
Cara Herbers, a mechanical engineering graduate student and lab supervisor at the Earl E. Bakken Medical Device Center, discussed her passion for the University of Minnesota, Twin Cities, and her studies surrounding the use of pressure sensors to diagnose postural instability in Parkinson’s patients. See the article [here].

IEM Member Highlights

Inspire Co-Director Rhonda Franklin receives 2021 MGA Diversity & Inclusion Award
On November 20 2021, the IEEE Member and Geographic Activities (MGA) Board announced the recipient of the 2021 MGA Diversity & Inclusion Award: Rhonda R. Franklin, “For sustained and exemplary contributions to diversity and inclusion in the field of RF/microwave engineering through leadership of Project Connect”.

Allison Hubel co-authors research on the long-term storage of reproductive cells and tissues at room temperature
Read the study [here].
Michael McAlpine leads a team that develops the first fully 3D-printed, flexible OLED display
Read the story here

Jian-Ping Wang leads the Inaugural Minnesota NeuroSpin Initiative Workshop
Read about the event here
Jian-Ping Wang to be inducted into the National Academy of Inventors
Read about his induction here

Matt Johnson receives Minnesota Partnership award with Mayo Clinic collaborator Bryan Klassen
Read the story here

Pierre Francois Van de Moortele leads study using MRI to identify symptomatic trigeminal nerves
Read the study here

Announcements

NSF I-Corps Great Lakes Region—Jumpstart: Technology Commercialization Workshops
Participate in free online programs to explore the potential of research-based innovations. Open to students, postdocs, fellows, research scientists, and faculty. Between the formal class meetings, participants conduct 20–30 customer discovery interviews, complete online learning assignments, apply the tools to their own technology, and receive coaching from experienced instructors. Successful completion of a Jumpstart course can qualify academic teams for nomination to the NSF I-Corps Teams program, including a $50,000 grant. Apply by February 8, 2022. Find more information here.

Call for applications: Research Experiences for Undergraduates (REU) Program in biopreservation technologies
The University of Minnesota and Massachusetts General Hospital invite undergraduates to gain real-world experience in conducting original research through the NSF Engineering Research Center for Advanced Technologies for the Preservation of Biological Systems. The 10-week program spans June 6–August 12, 2022 at a lab at the University of Minnesota or Massachusetts General Hospital in Boston. Undergraduates will receive $5,000 in addition to a travel and housing supplement. Apply by February 28, 2022. For more information and to apply go here.

IEM Innovation Week, April 11–15, 2022
Registration is open!
■ Design of Medical Devices Conference (April 11–14)
■ 5.10K Fun Run and Road Race (April 11)
■ Medical Device Security 101 (April 11)
■ IEM Virtual Career Mixer (April 12)
■ Innovation Workshop (April 11)
■ Minnesota Neuromodulation Symposium (April 14–15)

Learn more about 2022 IEM INNOVATION WEEK here

#IEMInnovationWeek
#IEMWeek2022