



Department of Biomedical Engineering

UNIVERSITY OF WISCONSIN-MADISON

news for alumni • spring 2020

From our chair

Another academic year is coming to a close. This spring semester has been anything but ordinary, though, amid the uncertainty of the global COVID-19 pandemic. Nearly all of us are now carrying out our research, teaching and other work remotely, which is why we are connecting with you electronically, too.



While our top priority has been supporting our students, faculty and staff during this time of upheaval, we're also doing what we can as a college and a department to use our expertise to help our state, country and world combat the COVID-19 pandemic. I hope you and your loved ones are well, and thank you for your support of our department.

On, Wisconsin!

Justin Williams
Peter Tong Department Chair
Vilas Distinguished Achievement Professor

Matchmakers

Master's student Rebecca Alcock helped create an automated platform to connect healthcare facilities in need of face shields with manufacturers.

[Read more ...](#)
and [help support this effort](#)



Accelerated testing

Professor David Beebe is working on an alternative approach to COVID-19 testing that could expand capacity.

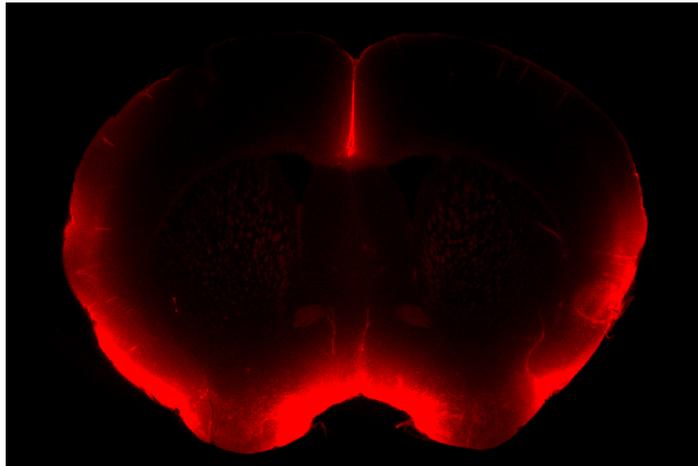
[Read more](#)



Cleaning the brain

BME researchers found vagus nerve stimulation affects the brain's clearance systems, potentially opening the door to new ways to treat neurodegenerative diseases.

[Read more](#)

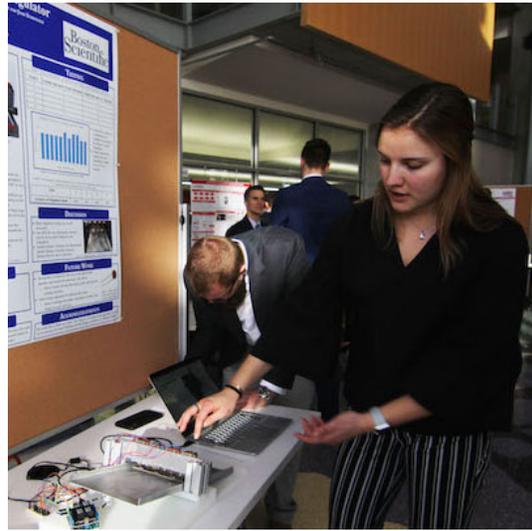


More headlines

- The American Institute for Medical and Biological Engineers inducted Professor Paul Campagnola and Associate Professors Pamela Kreeger and Kip Ludwig into its [College of Fellows](#).
- We've welcomed two new faculty members in 2020: [Kevin Eliceiri](#), who studies imaging technology, and [Filiz Yesilkoy](#), who develops biosensors.
- Associate Professor Kip Ludwig leads a team that has [created a novel electrode](#) that can be injected as a liquid and then cure in the body, laying the groundwork for a new neuromodulation system.
- Assistant Professor Colleen Witzenburg is using a [grant from the American Heart Association and Children's Heart Foundation](#) to create a tool that can help clinicians determine the best time to operate on children with congenital heart defects.



Once a promising college football recruit, undergraduate Patrick Kasl has turned his attention to [exploring cellular engineering](#).



In recent years, BME has established [a pipeline to the life sciences industry](#) by connecting undergraduates with major companies and promising startups.

Help UW-Madison engineers respond to COVID-19

