Mobile chemical sensors based on nanomaterials, the good, the bad, and the odds

State-of-the-art development of home based healthcare devices and environmental sensing technologies are bridging the gap between users in the real world and sensing technologies generated on lab benches; however, the road is still bumpy.

In this seminar, Erica Forzani, will share her Team’s experience in bringing nanosensing materials into commercial products. She will share results of sensing devices based on nanocrystals and molecularly imprinted polymers that have shown the good, the bad, and the odds of getting chemical sensors into final users’ hands for better understanding the user’s health and environment.

BioSketch: Dr. Erica Forzani is Assistant Professor of in the School for Engineering of Matter, Transport, and Energy at Arizona State University (SEMTE), Deputy Director of ASU’s Center for Bioelectronics & Biosensors (CBB) at The Biodesign Institute, and Research Associate at Mayo Clinic, Arizona.

Her research interests are the development of novel hybrid chemical and biosensors and the integration of sensors into wireless, non-invasive and inexpensive sensor devices. She is focused on health applications, and environmental health and safety. Currently, she has over 50 peer-reviewed publications, 11 patents and patent applications and 3 transferred intellectual properties. With a background in Clinical Chemistry, Chemistry, Engineering, and a passion in Lifestyle Behavioral Sciences, Erica directs her research, professional, and personal goals to bring new inspired-use technologies to real-world applications.