

Painless, Wearable Sensors

Center
for
Wearable
Sensors

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CURRENT RESEARCH

Wearable sensors facilitate health, fitness, and military applications

Imagine drawing on your body to measure your glucose level in place of pricking your finger. These enzymatic inks would function as biosensors to take glucose readings through the skin, reporting the results to a Bluetooth device. The creation of epidermal sensing devices able to conform to the contours of the human anatomy such as this bioink is a groundbreaking advancement in electrochemical and nanoengineering towards non-invasive chemical monitoring. Leaders responsible for pioneering this technology, researchers at the Center for Wearable Sensors at the University of California, San Diego (UCSD), are developing biosensors that yield significant insights into the overall health status of the wearer in connection to diverse healthcare, fitness, and military applications. Current projects include creating wearable biofuel cells for powering on-body sensors, and advanced sensors for 'on-the-spot' forensic applications that can benefit field identification of explosives or gunshot residues.

Directed by Professor Joseph Wang, the Center for Wearable Sensors is addressing big questions and grand challenges that are facing the wearable sensors sectors and accelerating the pace of innovation by tackling the toughest technical bottlenecks. Their work to create a series of the world's most advanced "lab on the body" systems is therefore built around close collaborations between world-renowned faculty, students, and industry partners with complementary expertise in various aspects of wearable sensor systems. This collaboration spans research fields including low-power circuits, materials, electrochemistry, bioengineering, wireless network technologies, preventive medicine, the life sciences, and more. Creative and...

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AFFILIATION

 University of California, San Diego

AWARDS

- ACS National Awards in Instrumentation, 1999
- ACS National Awards in Electrochemistry, 2006
- Honorary Professor from 5 universities

RESEARCH AREAS

Veteran's Causes, Technology, Materials Science / Physics, Nanotechnology

FUNDING REQUEST

Your contributions will support the Center for Wearable Sensors at the University of California, San Diego as they forerun electrochemical nanotechnology to develop biosensors that will revolutionize the medical and healthcare spheres. Donations will help fund talented personnel and equipment. Partner with the Center to achieve miles that will change the course of technological history!

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