

UC San Diego

# UC San Diego News Center

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February 25, 2015

## New Engineering Research Centers at UC San Diego will be Highlighted at Research Expo

**Research areas: wearable sensors, extreme events research, sustainable power and energy, and visual computing**



*Research Expo 2105 is April 16 at UC San Diego.*

**Feb 24, 2015 San Diego, CA:** Professors leading four new research centers at the University of California, San Diego Jacobs School of Engineering will speak at Research Expo on April 16, 2015. The faculty talks will focus on cutting-edge research in wearable sensors, extreme events research, sustainable power and energy, and visual computing. Learn more about the agile research centers project here.

Research Expo is an annual research, recruiting and networking event at the UC San Diego Jacobs School of Engineering. It includes 20-minute faculty talks, networking and a huge poster session in which 200+ engineering and computer science graduate students discuss their latest research with attendees.

Research Expo is Thursday April 16, 2015 at the UC San Diego Price Center. [Register today.](#)

### **New Research Centers: 20-minute Faculty Talks**

#### **Center for Extreme Events Research (2:30 PM)**

[Jiun-Shyan \(J.S.\) Chen](#)

William Prager Professor of Structural Engineering

“I will introduce meshfree-based computation methods for multi-scale, multi-physics simulation of damage initiation, propagation, and total collapse in structures and systems subjected to extreme events. I will also discuss how verification and validation of numerical simulation play an important role in the reliability of disaster prediction.”

[Read the full abstract here.](#)

[Center for Extreme Events Research press release](#)

#### **Center for Wearable Sensors (3:00 PM)**

[Patrick Mercier](#)

Professor of Electrical and Computer Engineering

“The Center for Wearable Sensors endeavors to build new sensing devices that measure useful parameters that can help directly affect patient healthcare and behavior, while doing so with ultra-miniaturized sensing electronics that are either extremely energy-efficient or support energy harvesting for seamless integration into daily life.”

[Read the full abstract here.](#)

[Center for Wearable Sensors in Pulse magazine](#)

#### **Sustainable Power and Energy Center (3:30 PM)**

[Shirley Meng](#)

Professor of NanoEngineering

“I will discuss new perspectives for energy storage materials being pursued at our new Sustainable Power and Energy Center. The work includes new-generation lithium-ion batteries, new sodium-ion batteries and other battery chemistries with lower costs and longer cycle lives.”[Read the full abstract here.](#)

Related: [Sustainable Power and Energy Center wins “Frontiers of Innovation” support from UC San Diego Office of Research Affairs.](#)

Website to come

## **Center for Visual Computing (4:00 PM)**

[Ravi Ramamoorthi](#)

Professor of Computer Science and Engineering

“Visual computing at the interface of computer vision and computer graphics is undergoing a major transformation that impacts our daily lives...The UC San Diego Center for Visual Computing seeks to develop the fundamental technologies needed to take full advantage of these opportunities, transforming the way we experience and display visual content and indeed the way we live.” [Read the full abstract here.](#) Website to come

## **Research Expo 2015 Highlights**

- \* 200+ graduate student poster session
- \* Fast-paced faculty tech talks
- \* Network with Jacobs School faculty, graduate students, alumni and attendees from industry, government and non-profit sectors

## **More Information**

For more information about Research Expo visit the [Research Expo website](#).

UC San Diego alumni receive [half-price admission to Research Expo](#) (\$50)

Employees of [Corporate Affiliates Program](#) member companies of the Jacobs School receive [2-for-1 admission](#).

The UC San Diego Jacobs School of Engineering gratefully recognizes its Research Expo 2015 corporate sponsors Qualcomm, ViaSat, Cubic and Leidos.

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## **MEDIA CONTACT**

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UC San Diego’s [Studio Ten 300](#) offers radio and television connections for media interviews with our faculty, which can be coordinated via [studio@ucsd.edu](mailto:studio@ucsd.edu). To connect with a UC San Diego faculty expert on relevant issues and trending news stories, visit <https://ucsdnews.ucsd.edu/media-resources/faculty-experts>.