

# Engineering News

December 2012

Across Disciplines.  
Across the World.™

FEATURED STORY



## GLOBAL LEADERS GATHER IN INDIA TO EXPLORE SUSTAINABLE ENERGY ACCESS

"This symposium brought leaders from around the world together to find ways to meet the needs of the nearly 3 billion people who do not have adequate access to clean water, air and energy," says **Pratim Biswas**, PhD.

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## WASHINGTON UNIVERSITY'S FIRST ELECTRIC-VEHICLE CHARGERS INSTALLED

Driven by one engineering student's independent study project,



## TWENTY MINUTES WITH KRISTEN NAEGLE

What determines if a cell will stay healthy or lead to cancer? Assistant Professor **Kristen Naegle** combines her electrical

the car-charging station is another step in the university's commitment to sustainability.

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engineering background with biomedical engineering to find the answers.

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## STUDENTS

### STUDENT TEAM DEVELOPS LOW-COST MEDICAL DEVICE

Most spirometers cost nearly \$2,000, making the medical device used to measure lung function unaffordable in the developing world. A new device designed by Washington University students costs about \$8.

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## FACULTY

### JUN TO USE NOVEL PROCESS TO STUDY NANOPARTICLE FORMATION

Sunscreen contains nanoparticles to protect our skin by reflecting hazardous ultraviolet radiation from the sun. But what happens to those nanoparticles when you wash the sunscreen away?

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## ALUMNI

### KAUFFMAN FOUNDATION SELECTS WASHINGTON UNIVERSITY ALUMNUS AS ONE OF 13 GLOBAL SCHOLARS

**Samir Unni** designed a software program for the phone that theoretically physicians could use to determine if a patient has any cardiac disease.

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## UPCOMING EVENTS

[Thu, Jan 10, 2013](#)

Eliot Society Holiday Party

[Mon, Jan 14, 2013](#)

First day of spring 2013 classes

[Tue, Feb 5, 2013](#)

Engineering Mentor Program Networking Reception

[Mon, Feb 25, 2013](#)

Engineers Week

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## RESEARCH NEWS

[Faculty members named AAAS fellows](#)

The newest fellows include three professors from the School of Engineering & Applied Science: **Michael Brent**, **Raj Jain** and **Arye Nehorai**.

[Less of a shock](#)

Professor **Igor Efimov** and School of Medicine colleagues report on a low-energy defibrillation scheme that significantly reduces the energy needed to re-establish a normal rhythm in the heart's main chambers.

[So BRIGHT you need to wear shades](#)

BRIGHTs are tiny probes that bind to biomarkers of disease and when swept by an infrared laser, light up to reveal their location.

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