

As the sensor operates through capacitive coupling, without contact and at long range, the applications are broad, from remote electrocardiopgraphy (ECG) and electroencephalography (EEG) to monitoring muscle movements and breathing and on to non-contact measurements of voltage in electronic circuits. The sensor, which requires no physical or resistive contact to make measurements, will enable novel medical equipment to devices that can "see" through walls, Plessey said. The applications therefore include medical diagnosis and imaging, security, and the human-machine interface. Keith Strickland technology director at Plessey Semiconductors, said. "The EPS technology created by UNH offers distance learning PSoC class."

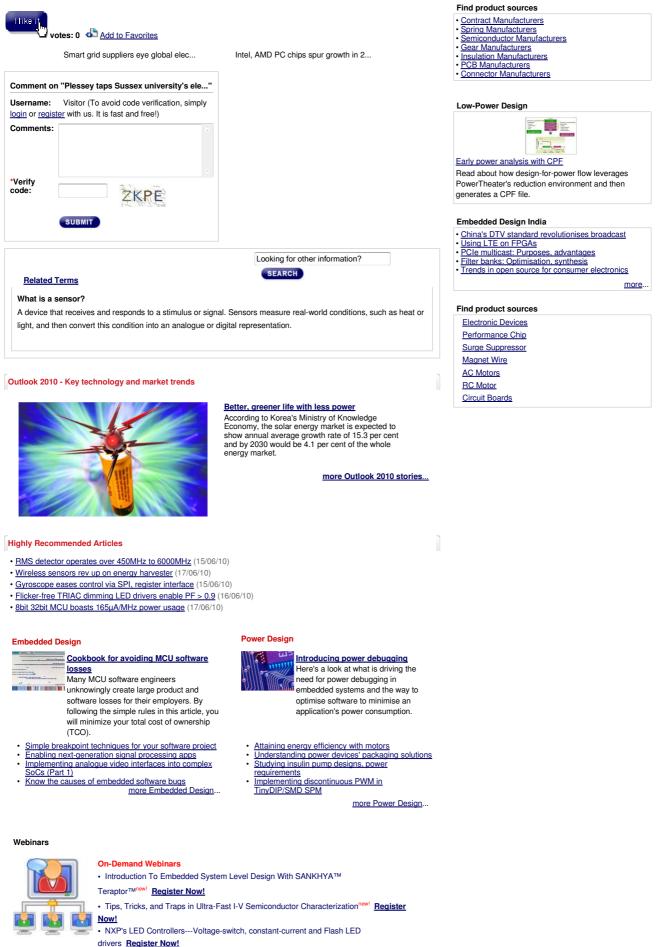
Keith Strickland, technology director at Plessey Semiconductors, said, "The EPS technology created by Prance's team at the University of Sussex is a significant innovation that will have a wide-ranging disruptive impact in the sensor market. In conjunction with the University of Sussex, Plessey will be developing an exciting range of EPS sensors utilising our in-house expertise in semiconductor process technology and design. In particular, our expertise with CMOS image sensors will enable us create very large chips with arrays of EPS sensors. We expect to have our first product prototype available in Q3 of next year for a medical diagnosis product that will significantly advance the ease and quality of cardiac measurements."

Prance said that since the technology consumes little <u>power</u>, it is possible to power the device by energy harvesting.

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