

**Past Issues:**

[Number 1 Jul 2005](#)  
[Number 2 Jan 2006](#)  
[Number 3 Jul 2006](#)

M. Nurul Abedin, Newsletter Editor-In-Chief  
Yoonkee Kim, Web Editor

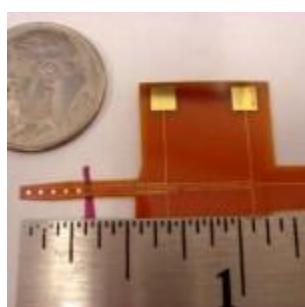
## Sensors Council News

- [IEEE SENSORS 2006 Daegu, Korea was a great success.](#) Sukan Lee, General Chair. [Conference snap shots.](#)
- [Best Student Paper Awards are awarded at IEEE SENSORS 2006.](#) J. Shih is the winner of the Best student paper awards and T. Nakatsuka and M. Perez are the runner-ups. H. Kudo and K. Schjolberg-Henriksen are the two winners of the Best poster presentation awards and P. Ruther and S. Zampolli are the runner-ups.
- [2006 Sensors Council Research Graduate Scholarship Awards are awarded to three graduate students.](#) Out of 115 applicants, Maximillian Perez, UC Irvine, and Saunvit Pandya, U. Illinois, are the winners of the GE Scholarship Awards and Suresh Donthu, Northwestern University, is the winner of the Sensors Council President's Scholarship Award.
- [IEEE Sensors Journal 2006-07 Progress Report](#) The IEEE Sensors Journal has become a leading publication in the sensors field.
- [IEEE Sensors Journal is a SPARC partner.](#) The Scholarly Publishing and Academic Resources Coalition (SPARC) supports partners who are committed to fair pricing, the ethical use of scholarly resources, and intellectual property management policies that emphasize broad and easy distribution and reuse of material. The IEEE Sensors Journal is a low-cost high-quality alternative to Sensors and Actuators, A and B.
- [Top 25 most popular articles of IEEE Sensors Journal viewed through IEEE Xplore in 2005](#)

## Sensor Technology

### [Implantable Multi-analyte Electrochemical Sensor Array](#)

Becky L. Clark, Amos Mugweru, and Michael V. Pishko, Pennsylvania State University, University Park, Pennsylvania, USA



The current work focuses on developing an electrochemical multi-analyte sensor array for implantation in the body to continuously monitor glucose, lactate, and pyruvate simultaneously. ....[\(more\)](#)

## Sensor Conferences

- [IEEE SENSORS 2007](#): The 6th IEEE Conference on Sensors, Atlanta, Georgia, Oct. 28 - 31, 2006
- [Sensor Net / Networking / Ad Hoc Wireless / Systems / Security Conferences, Journals, and Deadlines](#) by A. D. Wood, UVA

## New Books on Sensors

- Chemical Sensors and Biosensors (Analytical Techniques in the Sciences (AnTs) \*) (Paperback) by Brian R. Eggins, John Wiley & Sons, May 2002.
- CMOS Digital Integrated Circuits Analysis & Design (Hardcover) by Sung-Mo (Steve) Kang, Yusuf Leblebici, McGraw-Hill Science/Engineering/Math; 3 edition, October 29, 2002.
- Linear Position Sensors: Theory and Application (Hardcover) by David S. Nyce, Wiley-Interscience, November 2003.
- Terahertz Optoelectronics - by Kiyomi Sakai (Editor), Springer, 2004.
- Terahertz Sensing Technology: Emerging Scientific Applications & Novel Device Concepts (Selected Topics in Electronics and Systems, Vol. 32) - by Dwight L. Woolard (Editor), William R. Loerop (Editor) and Michael Shur (Editor), World Scientific Publishing Company, 2004.
- MEMS Mechanical Sensors (Hardcover) by Steve P. Beeby, Graham Ensel, and Michael Kraft, Artech House Publishers, May 2004.
- Force Sensors for Microelectronic Packaging Applications (Microtechnology and MEMS) (Hardcover) by J. Schwizer, M. Mayer, and O. Brand, Publisher: Springer; 1 edition (November 23, 2004)
- MEMS: A Practical Guide to Design, Analysis, and Applications (Hardcover) by Jan G. Korvink (Editor), Oliver Paul (Editor), William Andrew Publishing, November 14, 2005.
- MEMS (Mechanical Engineering) (Hardcover) by Mohamed Gad-el-Hak (Editor), CRC; 2nd edition, November 29, 2005.
- Integrated Chemical Microsensor Systems in CMOS Technology (Microtechnology and MEMS) (Hardcover) by Andreas Hierlemann, Springer; 1 edition, April 19, 2005.
- Leakage in Nanometer CMOS Technologies (Series on Integrated Circuits and Systems) (Hardcover) by Siva G. Narendra (Editor), Anantha Chandrakasan (Editor), Springer; 1 edition, November 17, 2005.
- Frontiers in Chemical Sensors: Novel Principles and Techniques (Springer Series on Chemical Sensors and Biosensors) (Hardcover) by Guillermo Orellana (Editor), Maria Cruz Moreno-Bondi (Editor), Springer; 1 edition, December 14, 2005.
- Fluorescence Sensors and Biosensors (Hardcover) by Richard B. Thompson (Editor), CRC, December 16, 2005.
- Image Sensors and Signal Processing for Digital Still Cameras (Hardcover) by Junichi Nakamura, CRC, August 5, 2005.
- Polar Remote Sensing: Volume II: Ice Sheets (Springer Praxis Books / Geophysical Sciences) (Hardcover), by Robert Massom and Dan Lubin, Springer; 1 edition, January 23, 2006.
- Principles of Electrical Measurement (Sensors Series.) (Hardcover) by Slawomir Tumanski, Taylor & Francis, January 20, 2006.
- Magnetic Actuators and Sensors (Hardcover) by John R. Brauer, Wiley-IEEE Press, February 24, 2006.
- Body Sensor Networks (Hardcover) by M. Yacoub (Foreword), Guang-Zhong Yang (Editor), Publisher: Springer; 1 edition, March 28, 2006.
- Pixel Detectors: From Fundamentals to Applications (Particle Acceleration and Detection) (Hardcover) by Leonardo Rossi, Peter Fischer, Tilman Rohe, Norbert Wermes, Springer; 1 edition, March 8, 2006.
- Micromachined Thin-Film Sensors for SOI-CMOS Co-Integration (Hardcover) by J. Laconte, D. Flandre, J.-P. Raskin, Springer; 1 edition, April 11, 2006.
- Mid-infrared Semiconductor Optoelectronics (Springer Series in Optical Sciences) (Hardcover) by Anthony Krier (Editor), Springer; 1 edition, May 23, 2006.
- Urban Forest Acoustics (Hardcover) by Voichita Bucur, Springer; 1 edition, June 14, 2006.
- Acoustic And Radio Eev Neutrino Detection Activities (Hardcover) by Rolf Nahnhauer (Editor), Sebastian Boser (Editor), World Scientific Publishing Company, April 19, 2006.
- Sensors and Actuators in Mechatronics (Hardcover) by Andrzej M. Pawlak, CRC, July 28, 2006.
- Hybrid CMOS Single-Electron-Transistor Device And Circuit Design (Hardcover) by Santanu Mahapatra, Adrian Mihai Ionescu, Artech House Publishers; Bk&CD-Rom edition, September 30, 2006.
- Quantum Well Infrared Photodetectors: Physics and Applications (Springer Series in Optical Sciences) (Hardcover) by Harald Schneider, Hui Chun Liu, Springer; 1 edition, November 14, 2006.
- High-Speed Photodiodes in Standard CMOS Technology (The International Series in Engineering and Computer Science) (Hardcover) by Sasa Radovanovic, Anne-Johan Annema, Bram Nauta, Springer; 1 edition, June 2, 2006.
- Microengineering, MEMS, and Interfacing (Mechanical Engineering) (Hardcover) by Danny Banks, CRC, March 23, 2006.
- Intelligent Sensor Design Using the Microchip dsPIC (Embedded Technology) (Paperback) by Creed Huddleston, Publisher: Newnes; Bk&CD-Rom edition, December 11, 2006.
- Fast Simulation of Electro-Thermal MEMS: Efficient Dynamic Compact Models (Microtechnology and MEMS) (Hardcover) by Tamara Bechtold, Evgenii B. Rudnyi, Jan G. Korvink, Springer; 1 edition, November 14, 2006.
- Fiber Optic Sensors: An Introduction for Engineers and Scientists (Wiley Series in Pure and Applied Optics) (Paperback) by Eric Udd (Editor), Wiley-Interscience, June 23, 2006.
- Precision Temperature Sensors in CMOS Technology (Analog Circuits and Signal Processing) (Hardcover) by Micheal A. P., Pertijs, Johan H., Huijsing, Michiel A. P., Pertijs, Springer; 1 edition, October 13, 2006.
- The 2007-2012 World Outlook for CMOS Image Sensors (Paperback) by Philip M. Parker, ICON Group International, Inc., October 13, 2006.
- Smart Material Systems and MEMS: Design and Development Methodologies (Hardcover) by Vijay Varadan, K. J. Vinoy, S. Gopalakrishnan, John Wiley & Sons, October 23, 2006.
- Smart CMOS Image Sensors and Applications (Hardcover) by Jun Ohta, CRC, June 26, 2007.