

Past Issues:

[Number 1 Jul 2005](#)

[Number 2 Jan 2006](#)

M. Nurul Abedin, Newsletter Editor-In-Chief

Yoonkee Kim, Web Editor

Sensors Council News

- **Guess Who Are 2006 IEEE Annual Election Candidates For IEEE President-Elect?** [John Vig](#), IEEE Sensors Council Founder, and [Lewis Terman](#)
- **[IEEE Sensors Journal Announces Sensors Letters.](#)**
- **[Sensors Council Announces The Start Of The Distinguished Lecturer Program.](#)** Two distinguished lecturers are selected: William D. Hunt, Georgia Tech, USA, "[Acoustic wave biosensors for molecular recognition and detection of conformational change](#)" and Sukhan Lee, Sungkyunkwan University, Korea, "[Robotic depth and tactile imaging sensors](#)"
- **[IEEE SENSORS 2005 Irvine was a great success.](#)** Andrei Shkel, General Chair

SENSORS 2005 Moments



Sensor Technology

[MEMS Microphone Arrays for Aeroacoustic Testing](#)

Q. A. Shams, W. M. Humphreys, A. J. Zuckerwar, S. M. Bartram, B. S. Sealey, and T. Comeaux, NASA Langley Research Center, Hampton, VA, USA



Understanding and controlling aircraft noise is one of the major research topics of the NASA Fundamental Aeronautics Program. The successful development of noise reduction technologies....[\(more\)](#)

[Laboratory for Chemical Sensors and Biosensors, University of Applied Sciences Aachen](#)

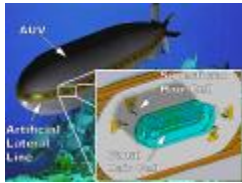
Michael J. Schoening, University of Applied Sciences Aachen (Juelich Campus), Juelich, Germany



The main research activities are focusing on the development of semiconductor field-effect-based (bio-)chemical sensors sensitive towards various ions and analytes by applying different transducer platforms....[\(more\)](#)

[Microfabricated Biomimetic Sensors: Artificial Haircell and Artificial Lateral Line](#)

Chang Liu, University of Illinois at Urbana-Champaign, IL, USA



With the advent of micro and nanotechnology, it now becomes possible to build engineering-equivalent of biological sensors, mimicking functions and/or structures in order to enhance the performance of engineering sensors and reduce their costs....[\(more\)](#)

Sensor Conferences

- [IEEE SENSORS 2006](#): The 5th IEEE Conference on Sensors, Daegu, Korea, Oct. 22 - 25, 2006
- [Sensor Net / Networking / Ad Hoc Wireless / Systems / Security Conferences, Journals, and Deadlines](#)

New Books on Sensors

1. Terahertz Spectroscopy: Principles and Applications (Hardcover) by Susan L. Dexheimer, Publisher: CRC (November 15, 2007).
2. Intense Terahertz Excitation of Semiconductors (Series on Semiconductor Science and Technology) (Hardcover) by S. G. Ganichev, W. Prettl; Publisher: Oxford University Press, USA (February 23, 2006).

3. Terahertz Optoelectronics (Hardcover) by Kiyomi Sakai (Editor), Publisher: Springer; 1 edition (July 21, 2005).
4. Terahertz Sensing Technology: Emerging Scientific Applications & Novel Device Concepts (Selected Topics in Electronics and Systems, Vol. 32) (Hardcover) by Dwight L. Woolard (Editor), William R. Loerop (Editor), Michael Shur (Editor); Publisher: World Scientific Publishing Company (June 2004).
5. Sensing with Terahertz Radiation (Hardcover) by Daniel Mittleman (Editor); Publisher: Springer; 1 edition (June 24, 2004).
6. Terahertz Sensing Technology: Electronic Devices and Advanced Systems Technology (Hardcover) by Dwight L. Woolard, William R. Loerop, and Michael Shur, Publisher: World Scientific Pub Co Inc (July 2003).
7. Transducers and Arrays for Underwater Sound (Underwater Acoustics) (Hardcover) by Charles H. Sherman, John L. Butler; Publisher: Springer; 1 edition (August 11, 2006).
8. Piezoelectric Transducers and Applications (Hardcover) by Antonio Arnau (Editor), Antonio Arnau Vives; Publisher: Springer; 1 edition (May 14, 2004).
9. Understanding Fiber Optics (5th Edition) (Hardcover) by Jeff Hecht; Publisher: Prentice Hall; 5 edition (April 19, 2005).
10. Fiber Optic Communications (5th Edition) (Hardcover) by Joseph C. Palais; Publisher: Prentice Hall; 5 edition (September 10, 2004).
11. Body Sensor Networks (Hardcover) by Guang-Zhong Yang (Editor), Publisher: Springer; 1 edition (March 28, 2006).
12. Sensor Network Operations by Shashi Phoha (Editor), Thomas F. La Porta (Editor), and Christopher Griffin (Editor), Publisher: Wiley-IEEE Press (May 2006).
13. Biomimetic Sensor Technology (Paperback) by Kiyoshi Toko, Publisher: Cambridge University Press; New Ed edition (August 22, 2005).
14. Sensor Technology Handbook (Hardcover) by Jon S Wilson, Publisher: Newnes; Bk&CD-Rom edition (December 8, 2004).
15. Semiconductor Photodetectors (Paperback) by Marshall J. Cohen (Editor), Publisher: SPIE-International Society for Optical Engineer (April 30, 2005).
16. Foundations of MEMS (Hardcover) by Chang Liu, Publisher: Prentice Hall (August 26, 2005).