

IEEE Sensors Council

Issue Number 12 January 2011

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M. Nurul Abedin, Newsletter Editor-In-Chief
Dominic Matern, Web Editor

Sensors Council News

- **IEEE Sensors Council Annual Four Different Category Awards:**
 - **Early Career GOLD Award,**
 - **Technical Achievement Award,**
 - **Meritorious Service Award, and**
 - **IEEE Sensors Council Journal Best Paper Award.**

Nominations are due August 15th, 2011...[\(more\)](#).

IEEE Awards Program

- **The 2012 IEEE Medals and Recognitions, Call for nominations are due 1 July 2011, to the IEEE Sensors Council.....[\(more\)](#)**

For nomination guidelines and forms, visit <http://www.ieee.org/awards>. Questions? Contact IEEE Awards Activities, 445 Hoes Lane, Piscataway, NJ 08854 USA; tel.: +1 732 562 3844; fax: +1 732 981 9019; e-mail: awards@ieee.org

2010 Sensors Council Award Winners

- **Technical Achievement Award: Brian Cunningham**
- **Meritorious Service Award: Michiel Vellekoop**
- **Gold Early Caree Award: Ville Viikari**
- **Best Paper Award: G.M. Hwang, L. Pang, E.H. Mullen, and Y. Fainman.**

For paper "Plasmonic Sensing of Biological Analysis Through Nanoholes", IEEE Sensors Journal, Vol. 8, No. 12, pp. 2074-2079, Dec. 2008. [\(more\)](#)

- **Best Paper Runner-Up Award: L. Luan, R.D. Evans, N.M. Jokerst, and R.B. Fair**

For paper "Integrated Optical Sensor in a Digital Microfluidic Platform", IEEE Sensors Journal, Vol. 8, pp. 628-635, May-June 2008.

2009 Sensors Council Award Winners

- **Technical Achievement Award: Prof. Andrei M. Shkel (more)**
- **Best Paper Award: Zhiwei Zou, SooHyun Lee, and Chong Ahn.**

For paper "A Polymer Microfluidic Chip With Interdigitated Electrodes Arrays for Simultaneous Dielectrophoretic Manipulation and Impedimetric Detection of Microparticles", IEEE Sensors Journal, Vol. 8, No. 5, MAY 2008. (more)

2008 Sensors Council Award Winners

- **Technical Achievement Award: Prof. Michael Shur (more)**
- **Meritorious Service Award: Robert T. Bannon (more)**
- **Best Paper Award: I. M. White, Hongying Zhu, J. Suter, N. M. Hanumegowda, H. Oveys, M. Zourob, and Xudong Fan.**

For paper "Refractometric Sensors for Lab-on-a-Chip Based on Optical Ring Resonators", IEEE Sensors Journal, Vol. 7, No.1, January 2007. (more)

2010 Sensors Conference Moment

IEEE SENSORS 2010 Waikoloa, Big Island of Hawaii, Conference Chair and Technical Program Chair: Gary K. Fedder, General Chair, Carnegie Mellon University, USA and Thomas Kenney, Technical Program Chair, Stanford University, USA. (More- [IEEE Sensors 2010 Conference, Final Program, November 1-4, 2010, Waikoloa, Big Island, Hawaii](#))

".....IEEE SENSORS brings together researchers, developers, and practitioners from diverse fields and thus provides a unique opportunity both to meet old and to make new friends and colleagues, This year, we are happy to report that over 650 attendees from 36 different countries are attending, with a balanced mix of participants from America, Europe, and Asia/Australia. The Conference attracted 1,152 submissions from 43 countries, from which 628 abstracts (297 Oral, 274 Posters, 19 Late News Posters, and 38 Open Posters) were selected for presentation. We sincerely thank all authors for submitting their latest work, thus contributing to the excellent technical contents of the Conference....."

Gary K. Fedder
Conference Chair

Thomas Kenny
Technical Program Chair



Sensor Technology

- **Sensor Technology Series:** Joe Watson, Series Editor, Chairman of the UK-based Gas Analysis and Sensing Group.... ([more](#))

Sensor Conferences

- [IEEE SENSORS 2009: The 8th IEEE Conference on Sensors, Christchurch, New Zealand: Oct. 25th - 28th, 2009....\(more\)](#)
- [IEEE SENSORS 2010: The 9th IEEE Conference on Sensors, Waikoloa, Hawaii: Nov. 1 – 4, 2010...\(more\)](#)
- [IEEE SENSORS 2011: - The 10th IEEE Conference on Sensors, Limerick, Ireland: Oct. 28-31, 2011\(more\)](#)

Terahertz Conferences

- **The 36th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), IRMMW-THz 2011**, 10/2-7/2010, Houston, Texas, USA.
- **The 35th International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz 2010**, 6-10/2010, Rome, Italy.

Sensor Books (Amazon)

1. Piezoelectric and Acoustic Materials for Transducer Applications [Paperback], Ahmad Safari (Editor), E. Koray Akdogan (Editor), Springer; 1st Edition (November 4, 2010)
2. Transducers and Arrays for Underwater Sound (Underwater Acoustics) [Paperback], Charles Sherman (Author), John L. Butler (Author), Springer; 1st ed. 2007. Corr. 2nd printing edition (December 1, 2010)
3. Piezoelectric Transducers and Applications [Paperback], Antonio Arnau Vives (Editor), Springer; 2nd ed. edition (November 19, 2010)
4. Principles of Terahertz Science and Technology [Paperback], Yun-Shik Lee (Author), Springer (October 26, 2010).
5. Sensing with Terahertz Radiation (Springer Series in Optical Sciences) [Paperback], Daniel Mittleman (Editor), Springer; 1st Edition (December 1, 2010)
6. Terahertz and Mid Infrared Radiation: Generation, Detection and Applications (NATO Science for Peace and Security Series B: Physics and Biophysics) [Paperback], Mauro F. Pereira (Editor), Oleksiy Shulika (Editor), Springer; 1st Edition (March 29, 2011)
7. Terahertz Techniques (Springer Series in Optical Sciences) [Hardcover], Erik Bründermann (Author), Heinz-Wilhelm Hübers (Author), Maurice Kimmitt (Author), Springer; 1st Edition (February 4, 2011).
8. Biosensor Technology: Fundamentals, Applications, and New Challenges (Biotechnology and Bioprocessing Series) [Hardcover], Jose M. Pingarron (Editor), John H. Luong (Editor), Crc Pr I Llc; 1 edition (July 31, 2011)
9. Biosensing: International Research and Development [Paperback], Jerome Schultz (Editor), Milan Mrksich (Editor), Sangeeta N. Bhatia (Editor), David J. Brady (Editor),

- Antonio J. Ricco (Editor), David R. Walt (Editor), Charles L. Wilkins (Editor), Springer; 1st Edition. (November 24, 2010)
10. Biological Imaging and Sensing (Biological and Medical Physics, Biomedical Engineering) [Paperback], Toshiyuki Furukawa (Editor), Springer; 1st Edition (December 7, 2010)
 11. Micro Electro Mechanical Systems, Mems: Technology, Fabrication Processes and Applications (Nanotechnology Science and Technology) [Hardcover], britt Ekwall (Editor), Mikkel Cronquist (Editor), Nova Science Pub Inc (March 30, 2011)
 12. From MEMS to Bio-MEMS and Bio-NEMS: Manufacturing Techniques and Applications [Hardcover], Marc J. Madou (Author), CRC Press; 1 edition (July 13, 2011)
 13. Broadband Optical Modulators: Science, Technology, and Applications [Hardcover], Antao Chen (Editor), Edmond Murphy (Editor), CRC Press; 1 edition (June 26, 2011)
 14. Design and Manufacturing of Active Microsystems (Microtechnology and MEMS) [Hardcover], Stephanus Büttgenbach (Editor), Arne Burisch (Editor), Jürgen Hesselbach (Editor), Springer; 1st Edition (March 29, 2011)
 15. Biomaterials for MEMS [Hardcover], Mu Chiao (Editor), JC Chiao (Editor), Pan Stanford Publishing (January 1, 2011)
 16. Nanotechnology Standards (Nanostructure Science and Technology) [Hardcover], Vladimir Murashov (Editor), John Howard (Editor), Springer; 1st Edition (February 1, 2011)
 17. Wide Bandgap Semiconductors: Fundamental Properties and Modern Photonic and Electronic Devices [Paperback], Kiyoshi Takahashi (Editor), Akihiko Yoshikawa (Editor), Adarsh Sandhu (Editor), Springer; 1st Edition (November 29, 2010)
 18. Semiconductor Physics: An Introduction [Paperback], Karlheinz Seeger (Author), Springer Berlin Heidelberg (February 19, 2010)
 19. Fundamentals of Semiconductors: Physics and Materials Properties (Graduate Texts in Physics) [Hardcover], Peter Y. Yu Manuel Cardona (Author), Springer; 4th edition (June 29, 2010).
 20. Semiconductor-Laser Fundamentals: Physics of the Gain Materials [Paperback], Weng W. Chow (Author), Stephan W. Koch (Author), Springer; 1st Edition (December 7, 2010)