

# IEEE Sensors Council

## Issue Number 17 January 2014

### Past Issues:

[Number 1 Jul 2005](#)  
[Number 2 Jan 2006](#)  
[Number 3 Jul 2006](#)  
[Number 4 Jan 2007](#)  
[Number 5 July 2007](#)  
[Number 6 Jan 2008](#)  
[Number 7 July 2008](#)  
[Number 8 January 2009](#)  
[Number 9 July 2009](#)  
[Number 10 January 2010](#)  
[Number 11 July 2010](#)  
[Number 12 January 2011](#)  
[Number 13 July 2011](#)  
[Number 14 January 2012](#)  
[Number 15 July 2012](#)  
[Number 16 Jan 2013](#)

M. Nurul Abedin, Newsletter Editor-In-Chief  
John Vig, Web Editor Editor-In-Chief

## IEEE Sensors Council Recent Present - Past Officials

### Presidents:



(2013 – 2014)  
H. TROY NAGLE



(2014 –2015)  
MIKE MCSHANE (Elect)



(2012-2013)  
VLADIMIR LUMELSKY

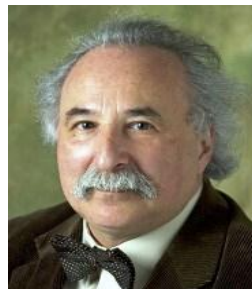


(2011-2012)  
CHRISTINA M. SCHOBBER

### IEEE Sensors Journal Editors-In-Chief:



(2012 - 2015)  
KRIKOR OZANYAN



(2009 - 2012)  
EVGENY KATZ



(2003 - 2009)  
H. TROY NAGLE



FOUNDING EIC  
VLADIMIR LUMELSKY

## 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 June 15<sup>th</sup>, 2014.**

## IEEE Awards Program

- **The 2014 IEEE Medals and Recognitions, Call for nominations are due 1 July 2014, to the IEEE Sensors Council.**

**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](mailto:awards@ieee.org)**

## IEEE Sensors Council Upcoming AdCom Meeting Announcement

- **The IEEE Sensors Council AdCom meeting will be held in Valencia, Spain on November 2-5, 2014 in association with the IEEE SENSORS Conference.**

## IEEE Sensors Council Positions Opening

### Call for Nominations – IEEE Sensors Council 2014 Elections

Nominations are being accepted for the following positions:

- President Elect
- Vice-President for Conferences (2 year term, renewable once)
- Vice-President for Technical Activities (2 year term, renewable once)
- Member-at-Large (2 year term)

The deadline for nominations is September 5, 2014.

For more information please see the [Call for Nominations](#).

## 2013 Sensors Council Award Winners

- **Technical Achievement Award: Khalil Najafi**
- **Meritorious Service Award: Christina M. Schober**
- **Gold Early Caree Award: Carlos Ruiz Zamarreño**
- **2013 Best Sensors Journal Paper Award: Yong-Lae Park, Bor-rong Chen, and Robert J. Wood**

# Design and Fabrication of Soft Artificial Skin Using Embedded Microchannels and Liquid Conductors.

IEEE Sensors 2013 Baltimore, Maryland, USA, Nov 3-6, 2013



## 2013 Technical Achievement Award



**Khalil Najafi**  
University of Michigan  
Ann Arbor, MI, USA

*"For leadership in microsystem technologies and seminal contributions to inertial sensors and hermetic wafer-level packaging."*

## 2013 Meritorious Service Award



**Christina M. Schober**  
Honeywell, Inc.  
Minneapolis, MN, USA

*"For contributions to the IEEE Sensors Council through enthusiastic and inspiring leadership while serving as the Council's Website Coordinator (2007), IEEE SENSORS Conference Series Treasurer (2002-2008), Vice President for Finances (2007), and President (2010-2011)."*

## 2013 Early Career GOLD Award



**Carlos Ruiz Zamarreño**  
Universidad Publica de Navarra  
Pamplona, Spain

*"For contributions to novel optical sensing waveguides functionalized with micro and nanostructured thin-films."*

## 2013 Sensors Journal Best Paper Award

*Paper: Design and Fabrication of Soft Artificial Skin Using Embedded Microchannels and Liquid Conductors*



**Yong-Lae Park**



**Bor-rong Chen**



**Robert J. Wood**

*Harvard University, Boston, MA, USA*

## 2013 Sensors Conference Moments



**In Appreciation -Recognizes and Thanks to Vladimir J. Lumelsky & Conference Dinner**

## Sensor Conferences

- [IEEE SENSORS 2012: The 11<sup>th</sup> IEEE Conference on Sensors, Taipei International Convention Center, Taipei, Taiwan, Oct 28-31, 2012 \(http://www.ieee-sensors2012.org\)](http://www.ieee-sensors2012.org).
- [IEEE SENSORS 2013: The 12<sup>th</sup> IEEE Conference on Sensors, Baltimore, MD, USA, Nov. 3-6, 2013 \(http://www.ieee-sensors2013.org\)](http://www.ieee-sensors2013.org).
- [IEEE SENSORS 2014: The 13<sup>th</sup> IEEE Conference on Sensors, Valencia, Spain, Nov. 2-5, 2014 \(http://www.ieee-sensors2014.org\)](http://www.ieee-sensors2014.org).

## Special IEEE Sensors News

o [IEEE SENSORS 2014](#) will be held in Valencia, Spain on 2-5 November 2014.

Special Session Proposal Deadline: March 28, 2014

Tutorial Proposal Submission Deadline: March 28, 2014

Abstract Submission Deadline: April 11, 2014

o Bids are now welcome for the IEEE SENSORS 2017 conference's venue. The conference will be held in IEEE Region 8 (Europe, Middle East and Africa). The bid package requirements are available [here](#).

o [1st IEEE International Symposium on INERTIAL SENSORS AND SYSTEMS \(ISSS 2014\)](#) will be held in Laguna Beach, California, USA, 25-26 February 2014. [Registration](#) is now open.

o [IEEE World Forum on Internet of Things 2014](#) will be held at the *Seoul Olympic Parktel Hotel, Seoul, Korea*, on 6-8 March 2014. [Registration](#) is now open.

o The initial papers of the new [IEEE Internet of Things Journal](#) have been posted in [IEEE Xplore](#). The reviews of an additional 135 papers are in progress. Further submissions and proposals for special issues and review papers are welcome.

o [IEEE Ninth International Conference on Intelligent Sensors, Sensor Networks and Information Processing \(IEEE ISSNIP 2014\)](#) will be held in Singapore, 21-24 April 2014.

o IEEE Sensors Journal papers were downloaded from IEEE Xplore 371,891 times during 2013. The number of downloads of each published Sensors Journal paper is now available in IEEE

Xplore.

o Calls for Papers for upcoming [IEEE Sensors Journal](#) Special Issues:

[Sensing Technologies for Intelligent Urban Infrastructures](#)

Submission deadline: 1 March 2014

### Sensor Books ([www.amazon.com](http://www.amazon.com))

1. Terahertz Spectroscopy and Imaging (Springer Series in Optical Sciences) [Hardcover]  
Kai-Erik Peiponen (Editor), Axel Zeitler (Editor), Makoto Kuwata-Gonokami (Editor)  
Publisher: Springer; 2013 edition (October 4, 2012).
2. Terahertz Techniques (Springer Series in Optical Sciences) [Hardcover]  
Erik Bründermann (Author), Heinz-Wilhelm Hübers (Author), Maurice FitzGerald Kimmitt (Author),  
Publisher: Springer; 2012 edition (April 19, 2012)
3. Terahertz Imaging for Biomedical Applications: Pattern Recognition and Tomographic Reconstruction [Hardcover], Brian W.-H. Ng (Author), Derek Abbott (Author), Publisher: Springer; 2012 edition (April 7, 2012) .
4. Physics and Applications of Terahertz Radiation (Springer Series in Optical Sciences) [Hardcover], Matteo Perenzoni (Editor), Douglas J. Paul (Editor), Publisher: Springer; 2014 edition (October 31, 2013).
5. Thz Identification for Defense and Security Purposes: Identifying Materials, Substances, and Items [Hardcover], Andre U Sokolnikov (Author), Publisher: World Scientific Publishing Company (September 1, 2013).
6. Ultrasound Teaching Manual: The Basics of Performing and Interpreting Ultrasound Scans [Paperback], Matthias Hofer (Author), Publisher: Thieme; 3 Pap/Psc edition (March 20, 2013).
7. The Physics and Technology of Diagnostic Ultrasound: A Practitioner's Guide Paperback by Robert Wyatt Gill(Author), Publisher: High Frequency Publishing (April 4, 2012).
8. Advances in Ultrasound Technology for Environmental Remediation (SpringerBriefs in Molecular Science / SpringerBriefs in Green Chemistry for Sustainability) [Paperback]  
Ta Yeong Wu (Author), Ningqun Guo (Author), Chee Yang Teh (Author), Jacqueline Xiao Wen Hay (Author), Publisher: Springer; 2013 edition (October 31, 2012).
9. Ultrasound-Guided Chemodenervation and Neurolysis: Reference Manual and DVD Procedure Atlas [Hardcover], Katharine E. Alter MD (Author), Mark Hallett MD (Author), Barbara Karp MD (Author), Codrin Lungu MD (Author), Publisher: Demos Medical; 1 edition (December 20, 2012).
10. Detection of Low-Level Optical Signals: Photodetectors, Focal Plane Arrays and Systems (Solid-State Science and Technology Library) [Paperback], M.A. Trishenkov (Author), Publisher: Springer; Softcover reprint of the original 1st ed. 1997 edition (December 3, 2010).
11. High Responsivity Tunable Step Quantum Well Infrared Photodetector. [Kindle Edition], Yeo Hwee Tiong (Author), Sold by: Amazon Digital Services, Inc.



12. Seeing the light: Design and characterization of photodetectors with internal gain fabricated in standard CMOS technologies, Miriam Adlerstein Marwick(Author), Publisher: ProQuest, UMI Dissertation Publishing (September 3, 2011).
13. Theoretical modeling of quantum dot infrared photodetectors: Modeling and optimization of self-assembled quantum dot infrared photodetectors using non-equilibrium Green's function [Paperback], Mohamed Naser (Author), Publisher: VDM Verlag Dr. Müller (February 24, 2011).
14. Advances in Infrared Photodetectors, Volume 84 (Semiconductors & Semimetals) [Hardcover], Sarath Gunapala (Editor), David Rhiger (Editor), Publisher: Academic Press; 1 edition (June 15, 2011).
15. Semiconductor Nanostructures for Optoelectronic Devices: Processing, Characterization and Applications (NanoScience and Technology) [Hardcover], Gyu-Chul Yi (Editor), Publisher: Springer; 2012 edition (January 13, 2012).
16. Smart Sensors for Industrial Applications (Devices, Circuits, and Systems) [Hardcover], Krzysztof Iniewski (Editor), Publisher: CRC Press (May 29, 2013).
17. Smart Sensors for Real-Time Water Quality Monitoring (Smart Sensors, Measurement and Instrumentation) [Hardcover], Subhas C Mukhopadhyay (Editor), Alex Mason (Editor), Publisher: Springer; 2013 edition (March 26, 2013).
18. Understanding Smart Sensors, Third Edition (Artech House Remote Sensing Library) [Hardcover], Publisher: Artech House; 3 edition (January 31, 2013).
19. Smart Sensors for Industrial Applications (Devices, Circuits, and Systems) [Hardcover], Krzysztof Iniewski (Editor), Publisher: CRC Press (May 29, 2013).
20. Piezo-Electric Electro-Acoustic Transducers (Microtechnology and MEMS) [Hardcover], Valeriy Sharapov (Author), Zhanna Sotula (Author), Larisa Kunickaya (Author), Publisher: Springer; 2013 edition (October 31, 2013).
21. High performance silicon imaging: Fundamentals and applications of CMOS and CCD sensors (Woodhead Publishing Series in Electronic and Optical Materials) [Hardcover], Daniel Durini (Editor), Publisher: Woodhead Publishing (June 28, 2014).
22. A Biologically Inspired CMOS Image Sensor (Studies in Computational Intelligence) [Hardcover], Albert Theuwissen (Author), Publisher: Springer; 2013 edition (December 14, 2012).
23. Poly-SiGe for MEMS-above-CMOS Sensors (Springer Series in Advanced Microelectronics) [Hardcover], Pilar Gonzalez Ruiz (Author), Kristin De Meyer Publisher: Springer; 2014 edition (July 30, 2013).
24. Electrochemical Biosensors (Pan Stanford Series on the HighTech of Biotechnology) [Hardcover], Serge Cosnier (Editor), Publisher: Pan Stanford Publishing (December 31, 2013).
25. Biosensors and Molecular Technologies for Cancer Diagnostics (Series in Sensors) [Hardcover], Keith E. Herold (Editor), Avraham Rasooly (Editor), Publisher: Taylor & Francis; 1 edition (May 29, 2012).
26. Biological and Medical Sensor Technologies (Devices, Circuits, and Systems) [Hardcover], Krzysztof Iniewski (Editor), Publisher: CRC Press (February 16, 2012).