

Inaugural Issue Number 1 2005

Newsletter Editor-In-Chief's Message

M. Nurul Abedin



I am the Editor-In-Chief of the online IEEE Sensor Council Newsletter and pleased to announce our first online newsletter for sensor communities.

This newsletter publication will be involved in the field of sensor development and its application, information about upcoming, present, and past IEEE SENSORS conferences, funding agencies, sensor tutorials, and recently published- books, patents, special papers on sensors, and so on. This newsletter will be published twice a year and the first inaugural issue is on July 31st, 2005. In addition, this newsletter will be published through online for the Advancement of Sensors research and their activities in the above-mentioned areas.

In the newsletter, we will use short technical write-ups by the associate editors for each member society and also include the best articles from the past IEEE SENSORS conferences, which will be great benefits to sensor designers, developers, and end users and also will be enormous assets, convenience, and satisfaction to the sensor communities. Three-to-four short articles on sensor activities will be used in the newsletter per issue.

Lastly, I would like to thank for our sensor communities' support and cooperation in putting this inaugural issue into effect.

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Newsletter
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Sensor Technology

Artificial Hair Cell Sensors for Flow, Vibration, and Force Imaging

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

The biological hair cell sensory receptor is a versatile and exceedingly well-adapted mechanical transducer. Hair cells are used in the inner ear of birds, fish, and mammals for hearing, in insect joints for angle detection as well as insect hearing structures, and for hydrodynamic flow and vibration sensing in fish as well as insects....(more)

Novel High Performance Planar Mesh Type MicroElectroMagnetic Sensors

Subhas Mukhopadhyay, Massey University, Palmerston North, New Zealand

Design, fabrication and employment of a novel planar type electromagnetic sensors has been carried out. The outcomes have been successfully applied in many applications such as the inspection of printed circuit boards, estimation of near-surface material properties, electroplated materials, and saxophone reed inspection. The extension of the use of the sensors for the inspection of dairy products is under investigation....(more)

Gas Sensors in the United Kingdom

Joe Watson, GASG, UK

Gas sensing and measurement were recognised as becoming of major importance in the late 1980s and the British government, via its Department of Trade and Industry, provided finance to support the formation of a technical organisation, the Gas Analysis & Sensing Group (the GASG). This quickly garnered membership from all the industrial firms involved plus the relevant research organisations and universities. Today, the Group is entirely self-supporting and has recently enjoyed an expansion in its membership to countries as diverse as the USA, Spain, Norway and Germany....(more)

Sensor Laboratory in Brescia University, Brescia, Italy

Giorgio Sberveglieri, Brescia University, Italy

The SENSOR Lab originates from the Gas Sensor Lab (GSL) active since 1987. The main scientific tasks of the SENSOR Lab are the preparation and functional characterisation of gas/flavour sensors based on semiconducting (SC) thin films and the development of the Artificial Olfactive System (AOS)....(more)

Sensors Council Announcement

- **The Sensors Council is pleased to announce the 2005 IEEE Sensors Council Sensors Research Graduate Scholarship Award. Application materials are due by August 29, 2005.**
Application form: doc format, pdf format

Sensor Conferences

- [IEEE SENSORS 2005](#): The 4th IEEE Conference on Sensors, Irvine, CA, Oct. 31 - Nov. 3, 2005
- [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](#)

Terahertz Conferences

- [Terahertz Applications Symposium 2005](#): Brining a new light to the marketplace, Washington, DC, June 2-3, 2005
- **Terahertz Systems**: The latest Information on R&D and emerging military and commercial applications, Washington, DC, June 13-14, 2005
- **35th Workshop: Physics and Technology of THz Photonics**: Erice, Italy, July 20-26, 2005

Books on Sensors

- Sensor Technology and Devices -- by Ljubisa Ristic (Editor), Artech House, 1994
- Handbook of Modern Sensors : Physics, Designs, and Applications (Handbook of Modern Sensors) -- by Jacob Fraden, Springer-Verlag, 1996
- Sensor Technology Handbook -- by Jon S Wilson, Newnes, 2004
- Terahertz Optoelectronics -- by Kiyomi Sakai (Editor), Springer, 2004
- Sensing with Terahertz Radiation -- by Daniel Mittleman, Springer-Verlag Berlin and Heidelberg GmbH & Co., 2002
- Terahertz Sensing Technology: Emerging Scientific Applications & Novel Device Concepts (Selected Topics in Electronics and Systems, Vol. 32) -- by Dwight L. Woolard (Editor), World Scientific Publishing Company, 2004