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WIMS² Announcements

December 2015



Wireless Integrated MicroSensing & Systems

Partnering With Industry in Microsystems Research

WIMS² Alumni Wins Prestigious Award



Microelectromechanical systems specialist, Dr. Tzeno Galchev is the 13th laureate of the presidential award "John Atanasoff", awarded for outstanding achievements in the field of information technologies.

[\[More\]](#)



WIMS² Membership



Learn more about the WIMS² Industrial Program and how members benefit from joining the Center.

[View Slides \(PDF\)](#)

[View Video](#)

WIMS² News & Events

Researchers Improve Glaucoma Treatment

Research being conducted by WIMS² faculty and scientists headlines the latest issue of *Microsystems & Nanoengineering*, the new open access journal published by the Nature Publishing Group. Their work, using the wireless actuation of resonant magnetoelastic microstructures, has been shown to improve the performance of drainage implants in the treatment of glaucoma.



[Featured Article](#) [Abstract](#)

Microfabricated Magnetoelastic Sensors and Actuators - A WIMS² Seminar

WIMS² Assistant Research Scientist, Dr. Scott Green's Seminar on magnetoelastic transduction is now available. This seminar describes the opportunities and challenges offered by the unique properties of this material, which can be applied to solutions in device tagging, magnetic sensing, and medical implants.



[Magnetoelastic Materials](#)

Grad Student IEEE Conference Presentations

Five new WIMS² conference presentations are now available on the WIMS² website. They include: Improvements in IMUs, Multistage Micropumps, Temperature-compensated Resonators, Fiberless Optoelectrodes, and an All Electronic Micro Gas Chromatograph.

Obtain Member Login

Access Research Review presentations, posters, and more with a member login.

[Obtain Member login](#)

Attention WIMS² Alumni

Please submit your recent awards and honors to lynnettmc@umich.edu, so we can include them in future WIMS² News Announcements.

- ± 2 PPM Frequency Drift and 300X Reduction of Bias Drift of Commercial 6-Axis Inertial Measurement Units Using a Low-Power Oven-Control Micro Platform
- Modular Stacked Variable-Compression Ratio Multi-Stage Gas Micropump
- Temperature Compensated Fused Silica Resonators Using Embedded Nickel-Refilled Trenches
- Fiberless Multicolor Optoelectrodes Using Injection Laser Diodes and Gradient Index Lens Coupled Optical Waveguides
- An All Electronic Fully Microfabricated Micro Gas Chromatograph

[Student Presentations \(login req'd\)](#)

Research Review Presentations Viewable Online

The presentations given at the Fall 2015 Research Review and Industrial Advisory Board Meeting on October 20, 2015, are now available on our website. They include: Center Overview; Micropower Circuits; Wireless Interfaces; Advanced Materials, Processes, and Packaging; High Frequency MEMS; Biomedical Sensors and Subsystems; Environmental Sensors and Subsystems; and Infrastructure Monitoring. All of these presentations report new results from ongoing research projects.



[Presentation Slides \(PDF\) \(login req'd\)](#)

[Presentation Videos \(login req'd\)](#)

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