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### Scope of the Conference:

- **Ferroelectric Materials: Theory & Experiments**
- **Multiferroics and Magnetoelectrics: Theory & Experiments**
- **Nanoscale Ferroelectrics and 3-D Geometries for High Density Memories**
- **Non-Volatile Memories (RRAMs, MRAMs, FeRAMs, PCMs)**
- **Tunable Dielectrics for RF Applications and Devices**
- **High-K Dielectrics for Nanoscale Logic and DRAM Devices**
- **Piezoelectrics and Opto-Electrics for Sensors, Actuators, & Transducers**
- **Ferroelectric Polymers, Composites and Liquid Crystals**
- **Energy Harvesting, Ferroelectric Photovoltaics**
- **Ferroelectrics and Inorganics in Medicines and Health Care**
- **Ferroelectrics and Spintronics, Theory & Experiments**
- **Materials for Electrocaloric Coolers**

### ISIF 2010 Technical Exhibition

ISIF 2010 will be hosting a Trade Show along with the Technical Program. Contact Symposium coordinators for further details.

### Abstract Submission:

**Deadline: March 12, 2010**

Please submit to: [isif2010-abstracts@rcse.upr.edu](mailto:isif2010-abstracts@rcse.upr.edu) a 2-page extended abstract that outlines (with one page text and the other figures) the key elements of the presentation.

**ISIF 2010** will be held in **Puerto Rico**, which is located in the Caribbean, about 1000 miles east of Miami. Besides its blue flag beaches, the best in Caribbean, it is known for many other attractions, such as: El Yunque, Arecibo Radio Telescope & Observatory, Bioluminescent Bays, Camuy River Cave Park, among others. Since Puerto Rico is a U.S. territory, the VISA requirements are the same as for traveling anywhere else in USA.

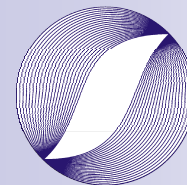
For more information please visit: [www.gotopuertorico.com](http://www.gotopuertorico.com)

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<http://www.isif.net>



# ISIF

# International Symposium on Integrated Functionalities

# 2010

June 13-16, 2010  
San Juan, Puerto Rico  
<http://www.isif.net>



## Vision and Topics:

The International Symposium on Integrated Ferroelectrics (ISIF) has been held every year since its creation in 1987, initially at two main sites (Colorado Springs and Monterrey in the USA), and in recent years opened to sites in Europe and Asia. The ISIF has gathered researchers and engineers from academia, national laboratories, and industries, initially focused on fundamental and applied science of ferroelectric and high-dielectric constant thin films, materials integration, and design & fabrication of advanced devices, such as non-volatile ferroelectric random access memories (FeRAMs), ferroelectric thin film-based tunable microwave components and devices, sensors, photovoltaic ferroelectrics for solar cells, micro-electro-mechanical & nano-electro-mechanical systems (MEMS/NEMs). FeRAMs are now making strong inroads into the “smart cards” and RFID markets and companies like Hynix in Korea, and Matsushita-Panasonic, Fujitsu and Toshiba in Japan are making progress in the development of the next generation of FeRAMS.

Considering the significant progress made in recent years on other memory technologies, besides FeRAMS, and the emergence of novel materials with multifunctionalities and integration into multifunctional devices, the general chairs in consultation with the scientific community, have now expanded the focus of ISIF to include the science and technology of other multifunctional materials and their integration, such as multiferroics, magnetic, phase and resistive change, hard (e.g., diamond) and soft (e.g., biomaterials) materials, which integrated with other oxides traditionally addressed in prior ISIF's, provide a new vision for science &

technology of what can be defined as the field of integrated functionalities. Accordingly, the Symposium is now named “International Symposium on Integrated Functionalities” in order to broaden its scope to address the scientific and technological paradigm shift towards inclusion of the exciting scientific topics and technologies involving several multifunctional materials, in addition to oxides for Electronics as discussed above. The first symposium under this new title will be held in San Juan, PR, and we hope to attract large and small companies beyond the field of integrated ferroelectrics, to invigorate the ISIF with a vision to the future of multifunctional materials and devices.

### Program Chair

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### Program Co-Chairs

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Dr. Orlando Auciello  
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### ISIF General Chairs:

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University of Colorado-Colorado Springs and Symetrix Corp

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