

in Ferroelectric and Related Materials

11:15–11:30	Rapid Thermal Binder Removal from Multilayer Ceramic Capacitors	<i>Stephen Lombardo (Univ. of Missouri-Columbia)</i>
11:30–12:00	Recent Developments in Texturing Functional Ceramics	<i>Gary Messing</i>
12:00–1:10 PM	<i>Lunch (Tarragon)</i>	
1:15–2:30 PM	Session III.	(Regency Ballroom)
1:15–1:30	Summary of the ISAF Highlights for CDS Members	<i>Susan Trolier-McKinstry</i>
1:30–2:00	History and Future Perspective of Electroceramics	<i>Yukio Sakabe (Murata Mfg.)</i>
2:00–2:25	Alternative Opportunities for Multilayer Capacitors and its Potential for an Energy Based Economy	<i>Clive Randall</i>
2:25–2:50	Understanding Defect Chemistry through First-principles Calculations and Thermodynamic Modeling	<i>Zi-Kui Liu</i>
2:50–3:05	<i>Break</i>	
3:05–3:30	Novel Use of High-K Powders in the Improvement of Medical Imaging with MRI	<i>Mike Lanagan</i>
3:30–3:45	Thermodynamics and Ionic/Electronic Transport in Oxides	<i>Long-Qing Chen</i>
3:45–4:00	High Throughput Synthesis and Characterization of the $Pb_nNb_2O_{5+n}$ ($0.5 < n < 4.1$) System on a Single Chip	<i>Mehdi Mirsaneh</i>
4:00–4:10	Defect and Domain Studies of Non-Lead Piezoelectrics	<i>Keisuke Kobayashi (Penn State/Taiyo Yuden)</i>
4:10–4:20	Defects and Designing Higher Performance BaTiO ₃ -based Dielectrics	<i>Noriyuki Inoue (Penn State/Murata)</i>
4:20–4:35	Impedance Analysis of Amorphous and Polycrystalline Tantalum Oxide Thin Sputtered Films	<i>Eugene Furman</i>
4:35–4:55	Flexure Mode Flexoelectric Piezoelectric Composites	<i>L.E. Cross</i>
4:55–5:30	<i>Break</i>	
5:30–7:00	Session IV: Poster Session/Reception (Upper Lobby)	
7:00	<i>Buessem Award Dinner (2010 Recipient: Yukio Sakabe, Murata Mfg. Co., Ltd.)</i>	

(Regency Ballroom A)

Wednesday, October 27, 2010:

7:30–8:30 AM *Continental breakfast (Lobby)*

8:15 AM-9:15 PM Session V. Integrated Piezoelectrics (Regency Ballroom)

8:15–8:45	Designing Piezoelectric Films for MEMS Applications	<i>Susan Trolier-McKinstry</i>
8:45–9:15	Inkjet Printhead Technologies with Piezoelectrics	<i>James Huffman (Kodak)</i>
9:15–9:30	High Energy Density Thin Film Capacitors Fabricated by Spin Spray	<i>Song Won Ko</i>
9:30–9:45	Piezo MEMS Actuators for RF and mm-Scale Robotics Applications	<i>Ron Polcawich (Army Research Lab)</i>
9:45–10:00	Piezoelectric Micro Power Generators for Low Frequency Applications	<i>S.S.N Bharadwaja</i>
10:00–10:20	Thermoelectric Oxides and Characterization of Key Physical Parameters	<i>Soonil Lee</i>
10:20–10:35	<i>Break</i>	

10:35 am-12:00 pm

Session VI. Ultracapacitors and Supercapacitors (Regency Ballroom)

10:35–10:55	Design Philosophy of High Energy Density Electrochemical Capacitors	<i>Ramakrishnan Rajagopalan</i>
10:55–11:20	High Electrostatic Energy Density at Elevated Temperatures—the Glass Capacitor	<i>Mike Lanagan</i>
11:20–12:00	Future Vision for CDS and Workshop Discussion for Spring 2011	<i>Clive Randall</i>
12:00–1:00 PM	<i>Buffet Lunch (Upper Lobby)</i>	
12:30–3:00 PM	Industrial Advisory Board Meeting [MEMBERS ONLY] (Regency A)	