



**1:00–4:30 PM****Session II:**

|                  |   |  |
|------------------|---|--|
| 1:00–1:25        | Recent Progress in Damage Mapping of Layered Devices  | Chris Muhlstein<br><i>(Penn State)</i>                       |
| 1:25–1:40        | Joint Meeting of 12 <sup>th</sup> International Meeting on Ferroelectricity and 18 <sup>th</sup> IEEE International Symposium on Applications of Ferroelectrics—Summary | Susan Trolier-McKinstry/<br>Shujun Zhang <i>(Penn State)</i> |
| 1:40–2:00        | Recent Development in Piezoelectric Thin Films  | Susan Trolier-McKinstry<br><i>(Penn State)</i>               |
| 2:00–2:35        | A Novel Suite of New Ultra-Low Fire Dielectric Materials  | Clive Randall<br><i>(Penn State)</i>                         |
| 2:35–2:50        | <i>Break</i>  |  |
| 2:50–3:10        | Developments in Predictive Grain Boundary Defect Chemistry  | Elizabeth Dickey<br><i>(Penn State)</i>                      |
| 3:10–3:30        | Linear Dielectrics for MLCCs  | Dennis Shay<br><i>(Penn State)</i>                           |
| 3:30–3:50        | Piezoelectric Thin Films for a High Frequency Ultrasound Transducer with Integrated Electronics   | Flavio Griggio<br><i>(Penn State)</i>                        |
| 3:50–4:05        | Investigation of Reoxidation Process in Ni-Electroded Multilayer Ceramic Capacitors through Impedance Spectroscopy  | Kazumi Kaneda<br><i>(Penn State/Taiyo Yuden)</i>             |
| 4:05–4:30        | Thermochemical and Electrochemical Issues Influencing Reliability Lead Based Perovskite Materials   | Russell Maier<br><i>(Penn State)</i>                         |
| <b>4:30–5:00</b> | <b><i>Transportation from Celebration Hall to Days Inn</i></b>  |  |

**DAYS INN**

|           |   |
|-----------|---|
| 5:15–7:00 | Poster Session/Reception <i>(Days Inn Atrium)</i> |
| 7:00      | Buessem Award Dinner <i>(Sylvan/Willow Rooms)</i> |

**Tuesday, October 20, 2009:**

**7:20 AM**      *Van leaves Days Inn for Celebration Hall*

**CELEBRATION HALL**

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

**8:30 AM–11:10 PM**    **Session III: Energy Related Work in CDS**

|                      |   |  |
|----------------------|---|--|
| 8:30–8:50 AM         | Structuring of Composites and the Effect of Induced Anisotropy on their Electrical Properties   | Vivek Tomer<br><i>(Penn State)</i>     |
| 8:50–9:10            | Glass and Interface Design for High Energy Density Dielectrics  | Mike Lanagan<br><i>(Penn State)</i>    |
| 9:10–9:35            | A Review of Trends in Supercapacitor Design   | Ram Rajagopalan<br><i>(Penn State)</i> |
| 9:35–9:50            | Dielectric Characterization of Powders  | Piotr Jasinski<br><i>(MS&amp;T)</i>    |
| 9:50–10:10           | <i>Break</i>  |  |
| 10:10–10:30          | Thermoelectric-Ferroelectric Oxides   | Soonil Lee<br><i>(Penn State)</i>      |
| 10:30–10:45          | MEMS Piezoelectric Energy Harvesting using Composite Films  | Charles Yeager<br><i>(Penn State)</i>  |
| 10:45–11:10          | Crystalline Silicon Solar Cells using Thick Film Silver Front Contacts  | Bill Borland<br><i>(DuPont)</i>        |
| 11:30                | <b><i>Lunch Buffet</i></b> ( <i>IAB Meeting participants go through line &amp; proceed to IAB meeting room; others who signed up for lunch may eat in the main meeting room</i> ) |  |
| <b>11:30–3:00 PM</b> | <b>Industrial Advisory Board Meeting [MEMBERS ONLY]</b><br><b><i>(with working lunch)</i></b>   |  |