

Agenda for Capacitor Consortium Planning Meeting

January 21, 2009

Clemson University Campbell Graduate Engineering Center
Greenville, SC

Welcome and Objectives		
7:30 – 8:00 am	Registration, coffee	
8:00 – 8:30 am	Welcome, introductions and meeting objectives	<i>T. Hubing Clemson</i>
8:30 – 9:00 am	Company priorities and challenges facing the capacitor industry	<i>Industry Participants</i>
New Capacitor Technologies		
9:00 – 9:20 am	Recent progress in the development of the carbon nanotube capacitor	<i>L. Dominey Chemi-Con</i>
9:20 – 9:40 am	Advanced materials for the next generation of high energy density capacitors	<i>S. Creager Clemson</i>
9:40 – 10:00 am	3D integrated micro and nano structures for ultra-capacitors	<i>G. Zhang Clemson</i>
10:00 – 10:20 am	<i>Break</i>	
10:20 – 10:35 am	Charging and discharging of single nanopores in a supercapacitor	<i>P. Wang Clemson</i>
10:35 – 10:50 am	Electrochemical capacitors	<i>R. Qiao Clemson</i>
10:50 – 11:00 am	Capacitor technology review and discussion	
Novel Capacitor Designs		
11:00 – 11:20 am	Advanced capacitor designs for new electronics packaging technologies	<i>H. Ke Clemson</i>
11:20 – 11:40 am	Ultra-fast, high energy density capacitor designs	<i>T. Hubing Clemson</i>
11:40 – 12:00 pm	Capacitor design review and discussion	
12:00 - 1:00 pm	<i>Lunch and tour of CU-ICAR</i>	
New Capacitor Applications		
1:00 – 1:20 pm	Bidirectional DC/DC converter for supercapacitor applications	<i>F. Giulii Capponi Univ. of Rome</i>
1:20 – 1:40 pm	Efficient, low-noise charging of ultra-capacitors	<i>H. Ke Clemson</i>
1:40 – 2:00 pm	Ultracapacitor assisted powertrains	<i>A. Vahidi Clemson</i>
2:00 – 2:20 pm	Active load balancing to reduce emissions from power inverters and motor drivers	<i>T. Hubing Clemson</i>
2:20 – 3:30 pm	Consortium development discussion: organization, membership requirements, research priorities, intellectual property rights, reporting requirements, meetings, protection of proprietary information.	