Final Agenda: NSF I/UCRC for EMC Meeting November 9 - 10, 2010 Greenville, SC

CU-ICAR Campbell Graduate Engineering Center, 4 Research Drive, Greenville, SC

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	Tuesday, November 9	,	Wednesday, November 10
8:00 am	Continental breakfast	8:00 am	Continental breakfast
8:30 am	Introductions, and meeting overview -	NSF I/UCRO	C Business Meeting
8:45 am	T. Hubing (Clemson) Welcome to CU-ICAR - I. Haque (Clemson)	8:30 am	Review of Agenda and New Business
8:55 am	NSF Presentation - L. Hornak (NSF)		Budget presentations from each university
Power Inverter Noise			Missouri S&TClemson
9:15 am	Application of imbalance difference model to		- Houston
	circuit board and cable geometries - H. Kwak (Clemson)		- Oklahoma
9:40 am	Active cancellation of common-mode currents		New Business
	on cables - A. McDowell (Clemson)	10:00 am	Break
10:05 am	Estimating and mitigating radiated emissions from PCB heatsinks - <i>X. He (Clemson)</i>	Modeling	
10:30 am	Break		Chamber modeling - J. Chen (Houston)
	grity, Power Integrity	11:00 am	Maximum emission calculator update - T. Hubing (Clemson)
11:00 am	A tool environment for SI, PI, and EMC, with causality and passivity checking, and RLGC cross-sectional analysis as the first	11:30 pm	Modeling EM coupling from an ESD gun to an IC - <i>J. Zhang</i> (S&T)
	functionalities - A. Razmadze (S&T)	12:00 pm	Lunch at CU-ICAR
11:30 am	Crosstalk among multiple stripline traces	12:45 pm	Full-vehicle modeling - H. Zeng (Clemson)
42:00 pm	crossing a split - S. Wu (S&T)	1:15 pm	Model segmentation for radiated immunity simulation - A. Radchenko (S&T)
12:00 pm	Lunch at CU-ICAR	LIFE Form	Review
1:00 pm	Modeling dense via arrays in multilayer printed circuit boards with a generalized multiple	1:45 pm	Jeff Mayer (NSF)
	scattering method - Y. Zhang (S&T)	Novel Design	gn Concepts
1:30 pm	Stochastic analysis for vias - <i>J. Chen</i> (Houston)	2:15 pm	RF design lab projects - <i>D. Pommerenke</i> (S&T)
Cable EMI		2:40 pm	New capacitor technologies - <i>T. Hubing</i>
2:00 pm	Calculating EMI reduction with absorbing materials applied on cables -	0.00	(Clemson)
	M. Koledinstseva (S&T)	3:00 pm	Break
2:30 pm	Estimation of maximum common-mode	3:30 pm	Center Research Results (Past 5 Years) Diagnosing and Troubleshooting Radiated
	currents on a cable due to crosstalk - C. Su (Clemson)	3.30 pm	Emissions Problems - T. Hubing (Clemson)
3:00 pm	Effect of water, oil and grease on cable connector impedance - H. Zeng (Clemson)	4:00 pm	Diagnosing and Troubleshooting Transient Susceptibility Problems - D. Pommerenke (MST)
3:30 pm	Break	4:30 pm	Adjourn
EMC Standards			, ajouin
4:00 pm The current state of C63 - H. Refai (Oklahoma)			
4:30 pm	Recommendation for wireless coexistence standard - H. Refai (Oklahoma)		
5:00 pm	Tour of CU-ICAR		
6:30 pm	Dinner - Upcountry History Museum		

Directions to CU-ICAR

The CU-ICAR campus is located in Greenville, SC about 10 minutes from the Greenville-Spartanburg airport (GSP) just off I-85. The NSF I/UCRC meeting will be held in the Campbell Graduate Engineering Center on the CU-ICAR campus. The address is: 4 Research Drive, Greenville, SC 29607, Phone: (864) 283-7215.

From Greenville-Spartanburg Airport "GSP" (~10 minutes)

From I-85, take Exit 48A East (U.S. 276 East, Laurens Road) toward Mauldin, S.C. At the next traffic light, turn left on Millennium Boulevard, which is the main road through the CU-ICAR campus. Drive into the campus about 1 mile, and turn left on Research Drive. Take the first left, and then make a right-hand turn into the parking garage, AutoPark.

From Atlanta, Ga. (Hartsfield-Jackson Airport "ATL") (~3 hours)

Take I-85 North toward Greenville. Take Exit 48A East toward Mauldin, S.C. (U.S. 276 East, Laurens Road). At the next traffic light, turn left on Millennium Boulevard, which is the main road through the CU-ICAR campus. Drive into the campus about 1 mile and turn left on Research Drive. Take the first left and turn into the parking garage, AutoPark. The campus is about 150 miles from Atlanta.

From Charlotte, N.C. (Charlotte Douglas Airport "CLT") (~1 hour and 40 minutes)

Take I-85 South toward Gastonia, N.C. Cross into South Carolina, and continue on the interstate to Greenville. Take Exit 48A East toward Mauldin (U.S. 276 East, Laurens Road). At the next traffic light, turn left on Millennium Boulevard, which is the main road through the CU-ICAR campus. Drive into the campus about 1 mile and turn left on Research Drive. Take the first left and turn into the parking garage, AutoPark. The campus is about 90 miles from Charlotte.

Hotels

There are several hotels in the area that are convenient to the Clemson ICAR Campus, including:

- The Marriott Hotel, (864) 297-0300, One Parkway East, Greenville, SC 29615
- The Embassy Suites Greenville, (864) 676-9090, 670 Verdae Blvd., Greenville, SC 29615
- The Courtyard by Marriott, (864) 213-9009, 115 The Parkway, Greenville, SC 29615
- Hampton Inn Greenville Woodruff, (868) 539-0036, 15 Park Woodruff Dr. Greenville, SC 29607
- Homewood Suites Greenville, (866) 539-0036, 102 Carolina Point Pkwy, Greenville, SC 29607

There are also several nice hotels downtown (about 20 minutes by car from ICAR), including:

- The Westin Poinsett Greenville, 866-539-0036, 120 South Main St, Greenville, SC 29601
- Hampton Inn & Suites Greenville Downtown, 866-539-0036, 171 Riverplace, Greenville, SC 29601

Dinner on Monday evening, November 8

A few of us are planning to meet informally for dinner at Soby's in Downtown Greenville on Monday evening at 6:30 pm. Please feel free to join us if you wish to do so and please let Kristina (cathcar@clemson.edu) know if you are planning to come. This will allow her to give the restaurant a reasonably accurate count of the number of people so that they can accommodate our group. Soby's, 207 S. Main, Greenville, SC 29601

Dinner on Tuesday evening, November 9

On Tuesday evening, we will have dinner at the *Upcountry History Museum* (http://www.upcountryhistory.org/) in Downtown Greenville. The dinner will be catered by *Smoke on the Water* (http://www.saucytavern.com/), a restaurant that features authentic southern cuisine. Directions will be provided at the meeting.