

GOMACTech 2007 Technical Session Proposal and Information Form

Session Title:	Nanotechnology for Systems
Session Abstract (250 words):	The mission of the Nanotechnology for Systems session is to highlight progress toward system level application of nano-devices. Emerging devices and architectural approaches that promise practical affordable electronic subsystems or improved sensors are featured.
Session Champion:	Joe E Brewer
Phone:	(352) 475-1480
Email:	j.brewer@ieee.org
Session Organizer:	Joe E Brewer & Clifford G Y Lau
Phone:	
Email:	
Session Chair:	Clifford G Y Lau
Phone:	(703) 933 6525
Email:	Clau@ida.org
Session Co-Chair:	Joe E Brewer
Phone:	
Email:	

	Invited Paper Title (Tentative)	Author	Affiliation
1	Overview of nanotechnology for systems (may be two slots)	Dr. Jim Murday or Dr. Rich Colton	Naval Research Laboratory
2	Photocatalytically active nanoscale scavengers and sensors for CW and biological agents	Prof. John Yates	University of Pittsburg
3	DNA based biochem nanosensors	Prof. Chad Mirkin	Northwestern University
4	Spintronics	Prof. Supriyo Datta	Purdue University
5	Parallel arrays of individually addressable single walled carbon nanotube field effect transistors	Prof. Sarah Lastella or Dr. Shashi Karna	Rensselaer Polytechnic Institute or Army Research Lab
6	Designing circuits with carbon nanotubes	Prof. Philip Wong	Stanford University
7	Applications of quantum dots in nanoelectronics and plasmonics for image processing	Prof. Pinaki Mazumder	University of Michigan
8	Chem-bio-nanosensors (tentative)	Dr. Ida Lee or Dr. Lloyd Whitman	Oakridge National Laboratory or Naval Research Lab