



**Friday
November 6, 2009**

**Atkinson Hall
University of California, San Diego**

INDUSTRY AFFILIATES:

Huawei, LG Electronics, Nokia Siemens, Panasonic, QUALCOMM, ViaSat

P R O G R A M

TIME	TOPIC	SPEAKER	VENUE
8:30 a.m.	Continental Breakfast		Lobby
8:55 a.m.	Welcome	Prof. Bhaskar Rao	Auditorium
9:00–9:35 a.m.	Trends and Opportunities in Wireless Communication Networks: Performance and Cost	Prof. Rene Cruz	Auditorium
9:40–10:15 a.m.	Technologies for Wireless Communication at the Physical Layer in Difficult Environments, a.k.a. Problems with Pigs, People, Power, Paintings, Position, and Propagation	Dr. Donald Kimball	Auditorium
10:20–10:55 a.m.	Trends and Challenges in Wireless Media	Prof. Sujit Dey	Auditorium
11:00 a.m.	Poster Session		Lobby
12:00-1:00 p.m.	LUNCH		Courtyard

**CWC PROJECT REVIEWS:**

TIME	TOPIC	SPEAKER	VENUE
1:00-1:55 p.m.	Linear Power Amplifiers for Multi-Mode Wireless <i>(PIs: Profs. Larry Larson, Peter Asbeck and Ian Galton)</i>		Auditorium
	Digital Pre-Distortion for Multi-mode handsets	Calogero Presti (Advisor: Prof. Peter Asbeck)	
	Two-stage Envelope Tracking for Improved Efficiency	Young-Pyo Hong (Advisor: Prof. Peter Asbeck)	
	A 1 Watt 1-5 GHz Class B Push-Pull Si/SiGe HBT Power Amplifier	Tyson Wooten (Advisor: Prof. Larry Larson)	
2:00-2:45 p.m.	Multi-User MIMO Systems <i>(PIs: Profs. Bhaskar Rao, Tara Javidi and Dr. James Zeidler)</i>		Auditorium
	Efficiently Encoding Sparsity Patterns	Matthew Pugh (Advisor: Prof. Bhaskar Rao)	
	Outage-Efficient Strategies for Power Control and Beamforming using Channel Statistics	Sagnik Ghosh (Advisor: Dr. James Zeidler)	
	Opportunistic Routing with Congestion Diversity	Mohammad Naghshvar (Advisor: Prof. Tara Javidi)	
2:45-3:15 p.m.	BREAK		

**CWC PROJECT REVIEWS:**

TIME	TOPIC	SPEAKER	VENUE
3:15-4:00 p.m.	Cognitive Radio (PIs: Profs. Tara Javidi, Pamela Cosman, Larry Larson and Bhaskar Rao)		Auditorium
	Adaptive Routing in Wireless Ad-hoc Networks	Abhijeet Bhorkar (Advisor: Prof. Tara Javidi)	
	A Tunable RF Interference Suppression Notch Filter for the IEEE802.22 Cognitive Radio System	Sanghoon Park (Advisor: Prof. Larry Larson)	
	Multiple Access Interference Analysis in OFDMA-based Cognitive Radio	Liwen Yu (Advisor: Profs. Bhaskar Rao)	
4:05-5:00 p.m.	Video Transmission over OFDM/MIMO Channels (PIs: Profs. Pamela Cosman, Tara Javidi, Paul Siegel and Dr. James Zeidler)		Auditorium
	Differential Detection Techniques for Statistically Unknown Time-Varying Channels	Nate Ricklin (Advisor: Dr. James Zeidler)	
	Degree-Dependant Finite-Length Scaling for LDPC Codes	Hadi Djahanshahi (Advisor: Prof. Pamela Cosman)	
	Motion-Compensated Scalable Video Transmission over MIMO Wireless Channels under Imperfect Channel Estimation	Hobin Kim (Advisor: Prof. Pamela Cosman)	
5:00-6:00 p.m.	Reception		Lobby and Courtyard