

Rutgers/EDA Tech Center II
671 Route 1 South
North Brunswick, NJ
732-932-6857 Ext. 614

AGENDA

9:15 – 9:30 AM Welcoming Remarks
Prof. D. Raychaudhuri – Director - WINLAB

AD HOC AND MESH NETWORKS

9:30 – 10:00 AM Wireless Ad Hoc Network Architecture
and Protocols Overview
Prof. D. Raychaudhuri

2:45 – 3:10 PM On the Capacity of Hierarchical Ad Hoc
Wireless Networks
Suli Zhao and Prof. D. Raychaudhuri

10:00 – 10:30 AM Theoretical Foundations for Ad Hoc
Wireless Networks
Prof. Roy Yates

BREAK
3:10 – 3:30 PM

10:40 – 11:10 AM MAC Layer Considerations for Ad Hoc
and Mesh Networks
Prof. Marco Gruteser

3:30 – 3:55 PM IRMA: Integrated Routing and MAC
Scheduling in Mesh Networks
Zhibin Wu and Prof. D. Raychaudhuri

11:10 – 11:40 AM Routing and Cross-layer
Considerations in Mesh Networks
Sachin Ganu

3:55 – 4:20 PM Creating Wireless Multi-hop Topologies on
Indoor Testbeds Through Noise Injection
Sanjit Kaul and Prof. Marco Gruteser

11:40 AM – 12:30 PM

KEYNOTE SPEECH

MULTI-CHANNEL WIRELESS NETWORKS:
CAPACITY, PROTOCOLS AND EXPERIMENTATION

PROF. NITIN H. VAIDYA

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

COORDINATED SCIENCE LABORATORY

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

4:20 – 4:45 PM A QoS Routing and Admission Control
Scheme for 802.11 Ad Hoc Networks
*Lin Luo and Profs. Marco Gruteser and
D. Raychaudhuri*

4:45 – 5:10 PM Location-based Flooding Techniques for
Vehicular Emergency Messaging
Sangho Oh and Prof. Marco Gruteser

LUNCH

12:30 – 1:20 PM

1:30 – 1:55 PM Is User-Cooperation in Wireless
Networks Always Beneficial?
Suhas Mathur and Prof. Narayan Mandayam

1:55 – 2:20 PM Comparison of User-Cooperation vs.
Dedicated Relays in a Multi-access
Channel
*Lalitha Sankaranarayanan and Prof.
Narayan Mandayam*

2:20 – 2:45 PM Wireless Networks for Spectrum
Sensing and Localization of Radio
Sources
Goran Ivkovic and Prof. Predrag Spasojevic

5:00 – 6:00 PM

WINLAB STUDENT POSTER AND DEMO SESSION

6:30 – 8:00 PM

IAB DINNER

UNIVERSITY INN AND CONFERENCE CENTER

Directions to University Inn and Conference Center:

*Take Route 1 North to the second exit for Ryder's Lane going toward
New Brunswick. Proceed through the traffic light. A short distance
after the light, you will pass Cobb Road on your right and then two
houses on the right. The road will begin to curve to the left. Do not
take that curve but drive straight ahead into the entrance to the Inn
and turn left into the parking lot.*