

Wednesday, June 1, 2016

NOTE: This preliminary agenda is subject to change without notice!

7:00 AM– 1:00 PM: Registration, Main Hallway

9:00 AM - 9:10 AM: Welcome and Opening Remarks, Alumni Assembly Hall, Dr. Michael Buehrer, Director of Wireless @ Virginia Tech

Introduction: Keynote Speaker, Dr. Alan Gatherer, Chief Technology Officer, Huawei Technologies Corporation, Ltd.

9:10 AM – 10:00 AM: Keynote Address - Chemical reactions in the organic network: strategic directions for developing chips and systems in next generation cellular

10:00 AM - 11:00 AM: Demo: Title: Demonstration of Ettus Research RFNoC (RF Network on Chip) Technology, Martin Braun, Presenter, Alumni Assembly Hall

11:00 AM – 11:15 AM – Refreshment Break

11:15 AM - 12:15 PM: Panel Session: Do we really need 5G by 2020? - Alumni Assembly Hall
Panel Members: Dr. Alan Gatherer, (CTO, Huawei), Ivan Seskar (Rutgers University), Dr. Phil Fleming, Nokia Networks, (additional panelist TBA)

Moderator: Dr. Jeff Reed

12:15 PM - 12:30 PM: Dr. Tom Rondeau, Program Manager, DARPA

12:30 PM – 1:30 PM: Lunch, Latham Ball Room

- Spectrum Sharing Student Radio Contest – Cascades Room – Stop in and observe

1:30 PM – 5:00 PM Registration Floor 2 Corridor

1:30 PM – 5:00 PM: Tutorial Sessions (3 hours long with a break half way through)

1:30 PM – 3:00 PM – Tutorial Sessions 1A, 1B, 1C begin

Tutorial Session 1A - Drillfield Room

Title: Localization in Next Generation Wireless Networks
Presenter: Dr. Richard M. Buehrer, Wireless @ Virginia Tech

Tutorial Session 1B - Duck Pond Room

Title: On System-Level Analysis & Design of Cellular Networks: The Magic of Stochastic Geometry
Presenter: Marco Di Renzo, Laboratory of Signals and Systems of Paris-Saclay University—CNRS, CentraleSupélec, University Paris Sud, France

Tutorial Session 1C - Smithfield Room

Title: Open – Source SDR on Embedded Platforms
Presenter: Dr. Raj Bhattacharjea, Georgia Tech

3:00 PM – 3:30 PM: Refreshment Break

3:30 PM - 5:00 PM: Tutorial Sessions 1A, 1B, 1C conclude

5:00 PM Break

5:30 PM - 8:00 PM: Virginia Tech Student Poster Session and Reception –
Old Dominion Ballroom – Squires Student Center

Refreshments will be served

Thursday, June 2, 2016

7:00 AM - 9:00 AM: Registration – Main Hall

8:00 AM - 8:05 AM: Alumni Assembly Hall, Dr. Jeffrey Reed introduces Keynote Speaker, Dr. Theodore Rappaport, NYU

8:05 AM – 9:00 AM: Keynote Address: Millimeter Wave Wireless Communications and 5G: It will work!

9:00 AM – 12:30 PM: **Tutorial Sessions** (3 hours long with a break half way through)

9:00 AM - 10:30 AM: Tutorial Sessions 2A, 2B, 2C begin

Tutorials Session 2A - Drillfield Room

Title: Recent Developments in Artificial Intelligence Applications of Deep Learning for Signal Processing
Presenter: Dr. Robert McGwier, The Hume Center, Virginia Tech

Tutorial Session 2B - Duck Pond Room

Title: Security Principles for LTE Device-To-Device (D2D) Proximity Services (ProSe)
Presenter: Andreas Rosessler, Rohde-Schwarz

Tutorial Session 2C - Smithfield Room

Title: Throughput Maximization in Wireless Networks Through Cross-layer Design and Optimization
Presenter: Dr. Tom Hou, Wireless @ Virginia Tech

10:30 AM – 11:00 AM: Refreshment Break/Poster Session

11:00 AM - 12:30 PM: Tutorial Sessions 2A, 2B, 2C conclude

12:30 PM - 1:30 PM: Lunch, Latham Ball Room

1:30 PM -5:00 PM: Tutorial Sessions (3 hours long with a break half way through)

1:30 PM – 3:00 PM – Tutorial Sessions 3A, 3B, 3C begin

Tutorial Session 3A - Drillfield Room

Title: Radio Frequency Spectrum Management and Recent Developments in Broadband Wireless

Spectrum

Presenter: Fredrick Matos, National Telecommunications and Information Administration, Washington, DC.

Tutorial Session 3B - Duck Pond Room

Title: Towards 5G: Slicing at 4G LTE Network

Presenters: Abhimanyu Gosain, Raytheon BBN Technologies and Ivan Seskar, Rutgers University

Tutorial Session 3C - Smithfield Room

Title: Stochastic and Dynamic Resource Allocation in Wireless Networks

Presenters: Dr. Allen Mackenzie and Dr. Mohammad J. Abdel-Rahman, Wireless @ Virginia Tech

3:00 PM - 3:30 PM: Refreshment Break/Poster Session

3:30 PM – 5:00 PM: Tutorial Sessions 3A, 3B, and 3C conclude

6:00 PM - 9:00 PM: Wireless @ VT Dinner Party, the German Club

Friday: June 3, 2016

8:00 AM - 8:05 AM: Alumni Assembly Hall, Dr. Allen MacKenzie introduces Keynote Speaker, Dr. Phil Fleming, Nokia Networks

8:05 AM - 8:55 AM: Keynote Address: Future Directions for Wireless Networks

9:00 AM – 12:30 PM: Tutorial Sessions (3 hours long with a break half way through)

9:00 AM – 10:30 AM: Tutorial Sessions 4A, 4B, 4C begin

Tutorial Session 4A - Drillfield Room

Title: Propagation Measurements and Modeling: A Modern Approach for 5G Communications:

Presenters: Dr. Greg Durgin - Georgia Tech; Dr. Chris Anderson - United States Naval Academy

Tutorial Session 4B - Cascades Room

Title: Wireless Testbeds in Research and Education

Presenter: Dr. Vuk Marojevic, Wireless @ Virginia Tech

Tutorial Session 4C - Smithfield Room

Title: Massive MIMO

Presenter: Jim Costabile, Syncopated Engineering Inc.

10:30 AM – 11:00 AM: Refreshment Break/Poster Session

11:00 AM - 12:30 PM: Tutorial Sessions 4A, 4B, and 4C conclude

12:30 PM: Event Concludes

