

NSF Workshop on Future Research Infrastructure for the Wireless Edge Agenda

Hyatt Regency Washington DC Hotel

Thursday, November 13 and Friday, November 14, 2014

THURSDAY, NOVEMBER 13

07:30 am - 08:30 am	Breakfast (<i>Congressional B</i>)
08:30 am - 09:00 am	Introductions (<i>Congressional B</i>)
09:00 am - 09:30 am	Keynote (<i>Congressional B</i>) Preston Marshall, Google
09:30 am - 10:00 am	Q &A and general discussions about what large-scale wireless infrastructure could look like (<i>Congressional B</i>)
10:00 am - 10:30 am	Coffee Break (<i>Congressional C/D Foyer</i>)
10:30 am - 12:00 pm	Breakout Sessions 1 (<i>Congressional B/C/D</i>)
12:00 pm - 01:00 pm	Lunch (<i>Congressional B</i>)
01:00 pm - 02:00 pm	Breakout Session 1 Reports (<i>Congressional B</i>)
02:00 pm - 03:30 pm	Breakout Sessions 2 (<i>Congressional B/C/D</i>)
03:30 pm - 04:00 pm	Coffee Break (<i>Congressional C/D Foyer</i>)
04:00 pm - 05:00 pm	Breakout Session 2 Reports (<i>Congressional B</i>)
05:00 pm - 05:30 pm	Planning for Friday (<i>Congressional B</i>)

FRIDAY, NOVEMBER 14

07:30 am - 08:30 am	Breakfast (<i>Congressional B</i>)
08:30 am - 10:00 am	Panel (<i>Congressional B</i>) Vanu Bose (Moderator), NSC Joseph Soriaga, Qualcomm Michael Ha, FCC Nada Golmie, NIST Rangam Subramanian, NTIA
10:00 am - 10:30 am	Coffee Break (<i>Congressional C/D Foyer</i>)
10:30 am - 12:00 pm	Breakout Sessions 3 (<i>Congressional B/C/D</i>)
12:00 pm - 01:00 pm	Lunch (<i>Congressional B</i>)
01:00 pm - 02:00 pm	Breakout Session 3 Reports (<i>Congressional B</i>)
02:00 pm - 02:30 pm	Closing Remarks (<i>Congressional B</i>)
03:00 pm - 05:00 pm	Report Writing Activities (<i>Congressional B</i>)

TOPICS FOR BREAKOUT SESSION 1

- **Research:** What new research can be enabled (dream big)?
 - New network architectures? 5G?
 - Low latency applications?
 - Computation to the edge?
 - Mobile cloud and cloud RAN

- **Applications:** What applications can such infrastructure enable (this is related the previous topic, but focusing more on the end result than the research itself)
 - Internet of things research (ubiquitous wireless, highly granular, real-time big data)
 - Cyber physical systems (ditto & low latency cloud), cloud based robotics
 - Potential for augmenting GPS positioning by local wireless precision time/location
 - Health applications
 - Network security (better or worse)?
- **Partnership:** Drivers for partnership between industry-academia for building city-scale infrastructure
 - Model city

TOPICS FOR BREAKOUT SESSION 2

- **Outreach and Education:** New opportunities for outreach and education (Think of areas of national priorities)
 - Scientific domains
 - Public safety, FirstNet
 - Transportation
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- **Operations:** Operationalizing, sustenance, and evolution strategies of such infrastructure
- **Policy:**
 - Spectrum
 - Security and privacy

INSTRUCTIONS FOR WIRELESS NETWORK CONNECTION

1. **Check for available wireless signal.**
2. **Connect to SSID: HYATT-MEETING**
3. **Launch a web browser.**
4. **When prompted, enter the Network Key: UOW2014 and click on “submit”.**
5. **The conference Welcome Page will display and you can now browse the Internet.**

Network Name: **HYATT-MEETING**

Network Key/Passkey: **UOW2014**