

NAISE Workshop on  
**5G+ Communication for Science**

May 10, 2023

NAISE HQ – Hogan Building, Suite 1160, 2205 Tech Drive, Evanston, IL, 60208 & Virtual

**FINAL AGENDA**

**Central Time**

- |                   |  |
|-------------------|--|
| 08:45AM – 09:00AM | Registration & Light Breakfast   |
| 09:00AM – 09:05AM | <b>NAISE Welcome</b><br>Begum Gulsoy, Northwestern / NAISE   |
| 09:05AM – 09:15AM | <b>Welcome &amp; Workshop Scope</b><br>Randall Berry, Northwestern / NAISE<br>Rajkumar Kettimuthu, Argonne / NAISE   |
| 09:15AM – 09:30AM | <b>Overview of 2019 DOE Advanced Wireless Communication Workshop</b><br>Pete Beckman, Argonne / NAISE  |
| 09:30AM – 10:30AM | <b>Keynote - On the Path to 6G:<br/>Industry Alignment and Collaboration Are Key to Make it a Success</b><br>Amitava Ghosh, NOKIA<br><br>(Abstract) There is still a lot of innovation to be done in 5G with the 5G-Advanced standards pipeline, but that hasn't prevented researchers around the world to start investigating 6G, which is expected to be commercially available in the 2030 timeframe. In this talk, we will first present 5G-Advanced features and how this will be a stepping stone for 6G technologies. Next, we will talk about the Next G Alliance (NGA), illustrating the importance of industry collaboration in shaping 6G. The Next G Alliance aims to engage a diverse ecosystem consisting of operators, vendors, hyper-scalers, research groups, universities, and government representatives. The set six audacious goal that create the framework for advancing North American leadership and positioning a robust 6G marketplace will be discussed next. Finally, we will discuss the next steps for NGA in terms of building relationship including engaging with international partners to build an industry consensus. |
| 10:30AM – 10:45AM | Coffee Break   |
| 10:45AM – 12:00PM | <b>Focus presentations:</b><br>Andrew Wiedlea, Energy Sciences Network (ESnet)<br>Alhusein Abouzeid, National Science Foundation (NSF)<br>Martin Doczkat, Federal Communications Commission (FCC)  |
| 12:00PM – 12:15PM | Lunch  |
| 12:15PM – 01:00PM | Contributed introductions during lunch (1-min/1-slide)   |

01:00PM – 02:00PM	<i>Parallel Breakouts -</i> <b>Session I: Testbeds</b> Rajkumar Kettimuthu, Argonne / NAISE (Chair), Joaquin Chung, Argonne ( <i>Scribe</i> )  <b>Session II: Science Use-cases</b> Pete Beckman, Argonne / NAISE ( <i>Chair</i> ), Seongha Park, Argonne / NAISE ( <i>Scribe</i> )  <b>Session III: Advanced Wireless Technologies</b> Monisha Ghosh, U. Notre Dame ( <i>Chair</i> ), Igor Kadota, Northwestern ( <i>Scribe</i> )
02:00PM – 02:15PM	Coffee Break
02:15PM – 02:45PM	<b>Presentation of Breakout Summaries</b>
02:45PM – 03:30PM	Open Discussion
03:30PM	<i>Adjourn</i>