

Defining the 'next generation' of geospace research

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Session Objectives

1. Identify promising methodologies that support the systems science approach to understand geospace
2. Outline the paths from methodology to new fundamental understanding
3. Determine how to integrate these new tools into CEDAR research

Blueprint to the next generation



'Next Generation': Agenda - Moving forward

- 10:00 - 10:10 -- Opening Remarks (Ryan McGranaghan)
- 10:10 - 10:25 -- **Seebany Datta-Barua** (innovative methods for ionosphere-thermosphere discovery)
- 10:30 - 10:45 -- **Chunming Wang** (machine learning for medium range IT forecasts)
- 10:50 - 11:05 -- **Josh Semeter** (scientific insight through computer-aided discovery)
- 11:10 - 11:20 -- **Roger Varney** (ISR for system science and operational applications)
- 11:20 - 11:30 -- **Sierra Flynn** (Nitric Oxide flux EOFs)
- 11:30 - 11:40 -- **Romina Nikoukar** (novel data assimilation and extension under new NASA grant)
- 11:40 - 11:50 -- **Asti Bhatt** (Integrated Geoscience Observatory EarthCube project and coordinated science campaigns)
- 11:50 - 12:00 -- Open discussion

Blueprint to the next generation



'Next Generation': Agenda - Moving forward

Identify overlap with *A Digital Geospace* and *High-latitude System Frontiers* sessions

Articulate and codify compelling responses to changing geospace landscape

 **Develop white paper**

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