

Astro 2020



Decadal Survey on Astronomy and Astrophysics.

Working group on
OIR and radio
interference

*The National
Academies of*

SCIENCES
ENGINEERING
MEDICINE

nas.edu/astro2020

Goals

- Increasingly numerous satellite constellations may impact current and future astronomical facilities and society
- Goal of the cross-panel working group is to report on radio and optical interference from ground and space sources
- Panel will report to the Steering Committee to propose content for the final report
- Currently in a fact-finding phase and working to understand the landscape of interested groups

Astro2020 Working Group on OIR and Radio interference

- Cross-panel subgroup to explore issues of RFI and OIR light pollution
- Bruce Macintosh (Stanford, WG chair, Steering Committee)
- Jean Turner (UCLA, Steering Committee)
- Pieter van Dokkum (Yale, Steering Committee)
- Lynn Matthews (MIT Haystack, RMS panel)
- Andrew Baker (Rutgers, RMS panel)
- Steve Kahn (Stanford, EOS2 panel)
- Amy Mainzer (Stanford, EOS1 panel)
- Richard Pogge (OSU, OIR ground panel)
- Scott Ransom (NRAO, Compact Objects panel)



Goals and format for this meeting

- This second meeting is focused on radio frequency interference
- Questions from ASTRO2020 members will be taken first after each presentation and in the discussion section
- Time permitting, selected relevant questions from the broader audience may be accepted at the end of the meeting – type questions into the chat and the moderator will relay them
- This is a fact-finding process - please be respectful of everyone involved in this discussion!
- Additional questions or concerns can be sent to astro2020@nas.edu
- **Please be respectful and focused**

Radio-Frequency Interference Meeting Public Agenda

OPEN SESSION

9:00 AM/12:00 PM	Welcome and Introductions	Bruce Macintosh, Steering Committee Member
9:10 AM/12:10 PM	Introduction to Spectrum Management and Recent Successes/Failures	Harvey Liszt, NRAO
9:30 AM/12:30 PM	Overview of the Current Regulatory Framework Nationally/Internationally	Liese vanZee, Indiana University, Bloomington
9:50 AM/12:50 PM	An National Science Foundation Perspective	Ashley Zauderer, NSF
10:10 AM/1:10 PM	Break	
10:25 AM/1:25 PM	New Technologies and Techniques in Radio Frequency Interference Mitigation	Alan Erickson, NRAO
10:45 AM/1:45 PM	The Next Decade of Electromagnetic Spectrum Management/Radio Frequency Interference	Tony Beasley, NRAO
11:05 AM/2:05 PM	Discussion and Wrap-Up	Bruce Macintosh, Steering Committee Member
11:30 AM/2:30 PM	Meeting Adjourns	