RFI 2016

Coexisting with Radio Frequency Interference

October 17-20, 2016

Hosted by the
National Radio Astronomy Observatory (NRAO)
at the New Mexico Tech Macey Center
in Socorro, New Mexico (USA)

Radio Frequency Interference (RFI) has become a critical issue for many users of the electromagnetic spectrum. This is especially true for observational sciences such as radio astronomy, microwave remote sensing of the Earth, and Solar and ionospheric studies where highly sensitive measurements are necessary.

Following the previous successful workshops held in Bonn (Germany, 2001), Penticton (Canada, 2004) and Groningen (The Netherlands, 2010), RFI 2016 aims to bring together researchers, engineers and users from all radio science disciplines to consider how RFI affects their respective fields, to develop mitigation strategies, and to foster cooperation and collaboration. Attention will also be given to the impact of new and future sources of RFI, spectrum management challenges, and new technology developments.

RFI 2016 will represent a step forward in the ongoing efforts to achieve meaningful scientific observations in the presence of significant and growing Radio Frequency Interference, and will offer an opportunity for the Radio Astronomy and Remote Sensing communities to interact and exchange ideas. More details are available on the workshop website **http://go.nrao.edu/rfi2016**.

Prospective authors are invited to submit an abstract no later than **August 1, 2016**, on the following topics:

- Defining and quantifying RFI
- Spectrum management and frequency allocations
- Radio Quiet Zones, electromagnetic interference
- SETI: separating terrestrial and extra-terrestrial transmissions
- RFI detection, prediction
- Calibration, direction-of-arrival estimation
- RFI in passive and active microwave remote sensing
- Mono and multi antenna signal processing
- Progresses in flagging and excision techniques
- Signal subtraction approaches
- Time/frequency/spatial filtering
- Pre- and post-correlation techniques
- Towards a real-time implementation of identification and mitigation
- Future sources of RFI

Selected authors will be offered the opportunity to submit an extended paper for follow on publication in a dedicated book.

Important dates:

Abstract submission deadline	August 1, 2016
Paper acceptance notification	September 4, 2016
Author registration	September 15, 2016
Conference	October 17-20, 2016
Proceeding paper submission	November 11, 2016

Scientific Organizing Committee:

Willem Baan (ASTRON - URSI)
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Joel Johnson (OSU)
Paolo de Matthaeis (NASA, IEEE-GRSS)
Roger Oliva (ESA)
Albert-Jan Boonstra (ASTRON)
Gregory Hellbourg (CSIRO)
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Local Organizing Committee:

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