



# Frequency Allocations in Remote Sensing Technical Committee (FARS TC) Annual Meeting

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## Overview

- **New TC chairs**
- **Summary of Past Year Activities**
- **Presentation by CORF member Sandra Cruz-Pol**
- **Plans for Upcoming Months**



## New Technical Committee Chairs

FARS-TC Election held before **IGARSS 2017**:

- Elected Chair: Dr. Paolo de Matthaeis



- Co-chairs: Dr. Roger Oliva and Dr. Yan Soldo





## Past Year Activities

- **FARS-TC chairs attended the Committee on Radio Frequencies (CORF) May 2017 meeting in Washington DC.**
- **RFI tool development**
- **RFI workshop 2016**





## Database of Frequency Allocation for Microwave Remote Sensing and Observed RFI

- Tool integrated into GRSS website
- Open to everyone at <http://www.grss-ieee.org/microwave-interferers/>
- FARS-TC presentation planned at the URSI GAAS 2017 conference and SFCG-37 meeting to increase awareness of the tool existence
- Upcoming improvements:
  - Regularly updated database for SMAP radiometer
  - Secondary and country-specific frequency allocations
- Collecting feedback, please provide comments!



## RFI 2016 Workshop

- Held in Socorro, New Mexico (USA), on October 17-20, 2016;
- Organized in cooperation with the radio astronomy community;
- Co-sponsored by GRSS, NRAO, CSIRO, ASTRON, EURASIP, URSI and IUCAF;
- 69 presentations, 21 (30%) on remote sensing;
- 111 registered attendees, 25 (22.5%) of which were remote sensing scientists or engineers;
- 27 papers published on IEEE explore.





## Upcoming Activities

- **XXXII URSI General Assembly and Scientific Symposium - Montreal, 19-26 August 2017**
  - One-day workshop on RFI Characterization and Mitigation held on August 19
  - Co-organized by URSI commissions EFGHJ as follow up to RFI 2016 workshop
  - FARS-TC introducing the RFI database with a presentation “The Database of Observed Radio Frequency Interference and Frequency Allocations of the IEEE Geoscience and Remote Sensing Society”
- **Space Frequency Coordination Group (SFCG-37) - Montreal, 6-13 September 2017**
  - FARS-TC reporting on progress of RFI database
  - Continuing presence to represent spectrum interests of the GRSS community
- **Geoscience and Remote Sensing Magazine contribution from FARS-TC**
  - Article submission due in December
  - Ideas and suggestions welcome
- **Continuation of RFI tool development.**





## Proposed Initiatives for 2017-2018 and Beyond

- **Participation in American Meteorological Society (AMS) Annual Meeting in January**
  - 2018 topics include:
    - *Radio Spectrum Role in Meteorology and Hydrology:*  
*As noted by policy letters and statement, radio spectrum is integral to many aspects of meteorology, essential to the operation of radars, satellites, passive and active remote sensing and dissemination. Domestic and international regulators are constantly looking for new spectrum in support of commercial wireless. Some proposals can impact spectrum usage for meteorology and hydrology. The community must better understand the role of radio spectrum in the creation and transmission of scientific data, products, forecasts, advisories and warnings.*
    - Need to educate meteorologists about spectrum management and interference issues and to ally them with remote sensing scientists and engineers
    - FARS-TC members encouraged to submit an abstract
- **Summer School on RFI and Spectrum Management in Remote Sensing:**
  - is there enough interest and a need in the community?
  - if there is, venue, lecturers, sponsors, etc., need to be found;
  - target dates summer 2018 or 2019
- **RFI Workshop in cooperation with Radio Astronomy (and Telecommunication?) community**
- **Tutorial at IGARSS 2018?**

