

The BSS, Radio Science and URSI



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All science is either physics or stamp collecting

Ernest Rutherford, 1st Baron Rutherford, OM, FRS



Everything not invented by God was invented
by an engineer

*HRH The Prince Philip, Duke of Edinburgh KG
KT OM GBE*

URSI Commission G Beacon Satellite Symposium



Combines physics and engineering

*to understand space physics
and provide engineering solutions.*

What is URSI?



- Union Radio-Scientifique Internationale.
- International Union of Radio Science.
 - a non-governmental and not-for-profit organisation,
 - Operates under the auspices of the International Council for Science (ICSU).
- URSI stimulates and co-ordinates international radio science,
 - pure research,
 - applied research (applications).

What's the point of URSI?



*URSI provides a (possibly) unique link
between science and engineering
And over the full breadth of radio science
disciplines.*

10 URSI Commissions



A: Electromagnetic Metrology

B: Fields and Waves

C: Radio-Communication Systems and Signal Processing

D: Electronics and Photonics

E: Electromagnetic Noise and Interference

F: Wave Propagation and Remote Sensing

G: Ionospheric Radio and Propagation

H: Waves in Plasmas

J: Radio Astronomy

K: Electro-magnetics in Biology and Medicine

URSI Meetings



- Flagship Meetings
 - Year 1: General Assembly and Scientific Symposium (GASS).
 - Year 2: Atlantic Radio Science Meeting (AT-RASC).
 - Year 3: Asia Pacific Radio Science Meeting (AP-RASC).
 - Year 1: GASS.
- Commission specific meetings (this one).
- Sponsored international meetings run by other organisations.
- National meetings.

Flagship meetings



- Meeting papers are all indexed through IEEE-Xplore (if Commissions desire).
- Student Paper Competitions
- Competitive Young Scientist Awards.
 - Free registration
 - Help with travel and subsistence

AP-RASC 2016



August 21-25, 2016, Grand Hilton Seoul Hotel, Seoul, South Korea.

<http://aprasc2016.org>

Young Scientist Programs

- Student Paper Competition (SPC)
- Young Scientist Award (YSA)

Special Issues

- URSI AP-RASC 2016 Special Issue (to be published in *Radio Science*)
- URSI AP-RASC 2016 SPC Special Issue (to be published in *Radio Science Bulletin*)

Important Dates

- **Paper Submission**
 - March 15, 2016
- **YSA/SPC Paper Submission**
 - March 31, 2016
- **Acceptance Notification**
 - April 30, 2016
- **Author Registration**
 - June 15, 2016
- **Early Registration**
 - July 15, 2016

GASS - 2017

Montreal

August 2017

Sat. 19 – Sat. 26



AT-RASC 2018

ExpoMeloneras Convention Centre, Gran Canaria, Canary Islands, Spain

28 May 2018

An URSI Flagship Conference with an open scientific programme composed of submitted papers within the domains covered by all ten Commissions of URSI



Individual Members



- Elected according to career development milestones
 - Fellows
 - Members
 - Associate Members
- Benefits
 - Reduced flagship conference fees
 - Reduced registration fees at IEEE APS meetings

To be introduced in August 2016

Radio Science Bulletin

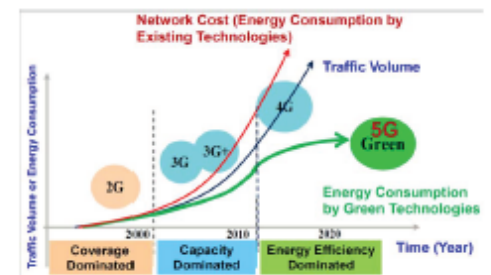
- www.ursi.org/en/publications_rsb.asp
- Published by URSI
- Delivered on-line to those who have attended a GASS in the previous 6-years.
- Free.
- Published quarterly.
- Reviews and general interest articles.
- Administrative news.
- Indexed by IEEE Xplore

Radio Science Bulletin

ISSN 1024-4530

INTERNATIONAL
UNION OF
RADIO SCIENCE

UNION
RADIO-SCIENTIFIQUE
INTERNATIONALE

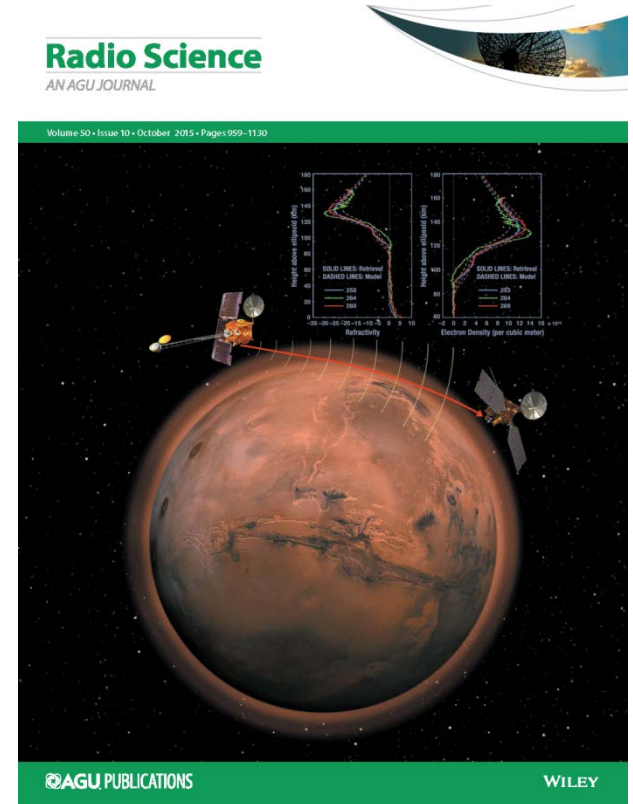


No 347
December 2013

URSI, c/o Ghent University (INTEC)
St.-Pietersnieuwstraat 41, B-9000 Ghent (Belgium)

Radio Science

- Published by the American Geophysical Union
- Sponsored by URSI
- Scholarly journal
- Indexed by IEEE-Xplore
- Good match to interests of Commissions B, C, D, E, F, G, J.





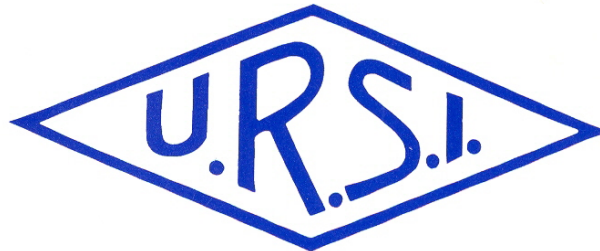
I may not have gone where I intended to go, but
I think I have ended up where I needed to be.

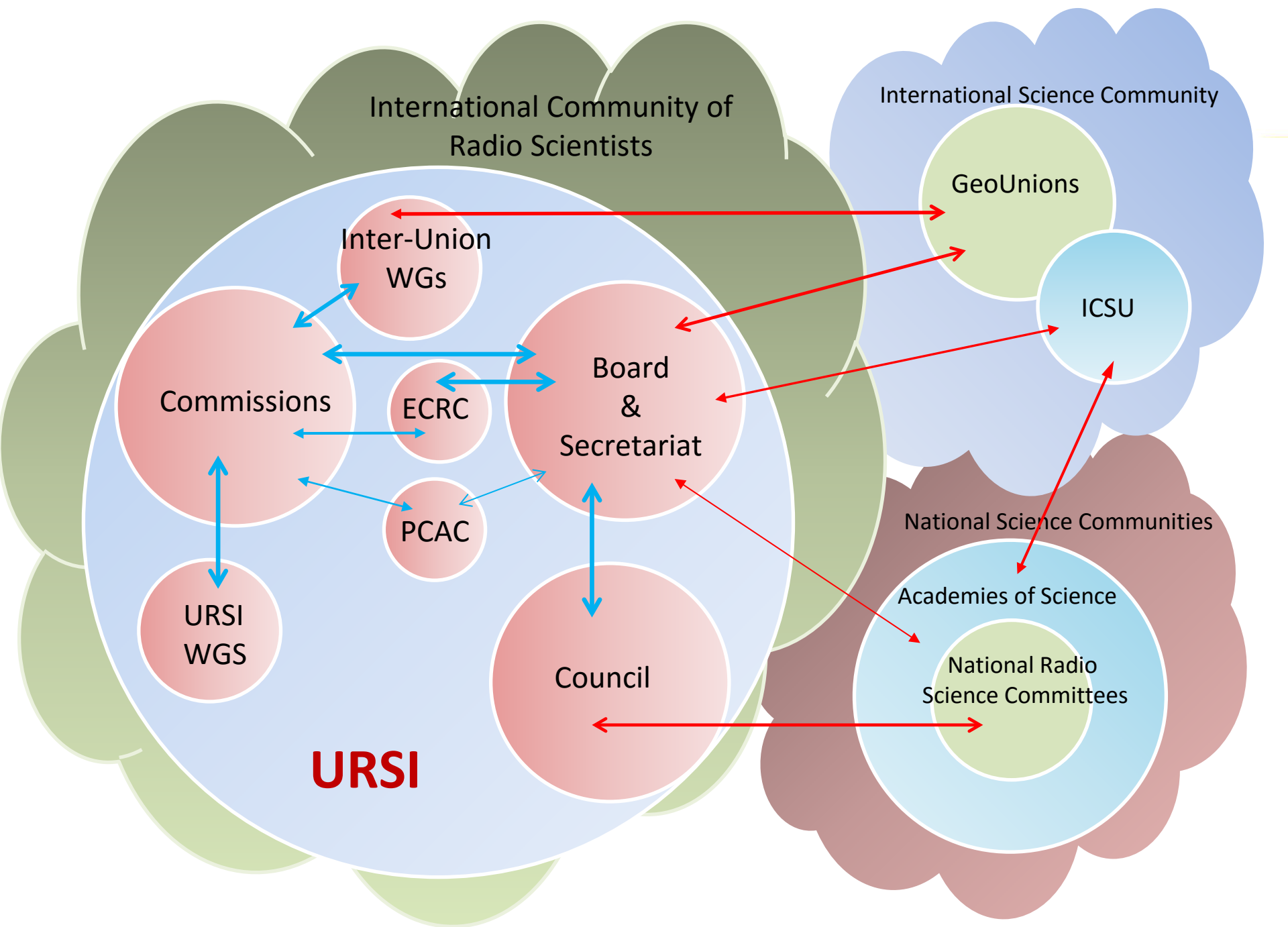
Douglas Adams

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Why is radio science important?



- Radio science is at the centre of our lives.
 - It provides the means to make fundamental scientific discoveries.
 - It supports our society through increasingly ubiquitous radio systems.
 - And it is itself the provider of new discoveries.

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