Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: Status report of meeting with passive sciences CORF committee
Date Submitted: July 5 2012

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Re: general Contribution

Abstract: This presentation is to discuss a recent meeting the author had with representatives of the passive services /science community CORF organization in DC at the FCC, along with Mike Marcus former FCC chief technology officer, in opening up spectrum above 100GHz for device allocations, spectrum coexistence and formation of a active and passive services technology collaboration

Purpose: Support material for 802.15 THz Interest Groups focus and activities

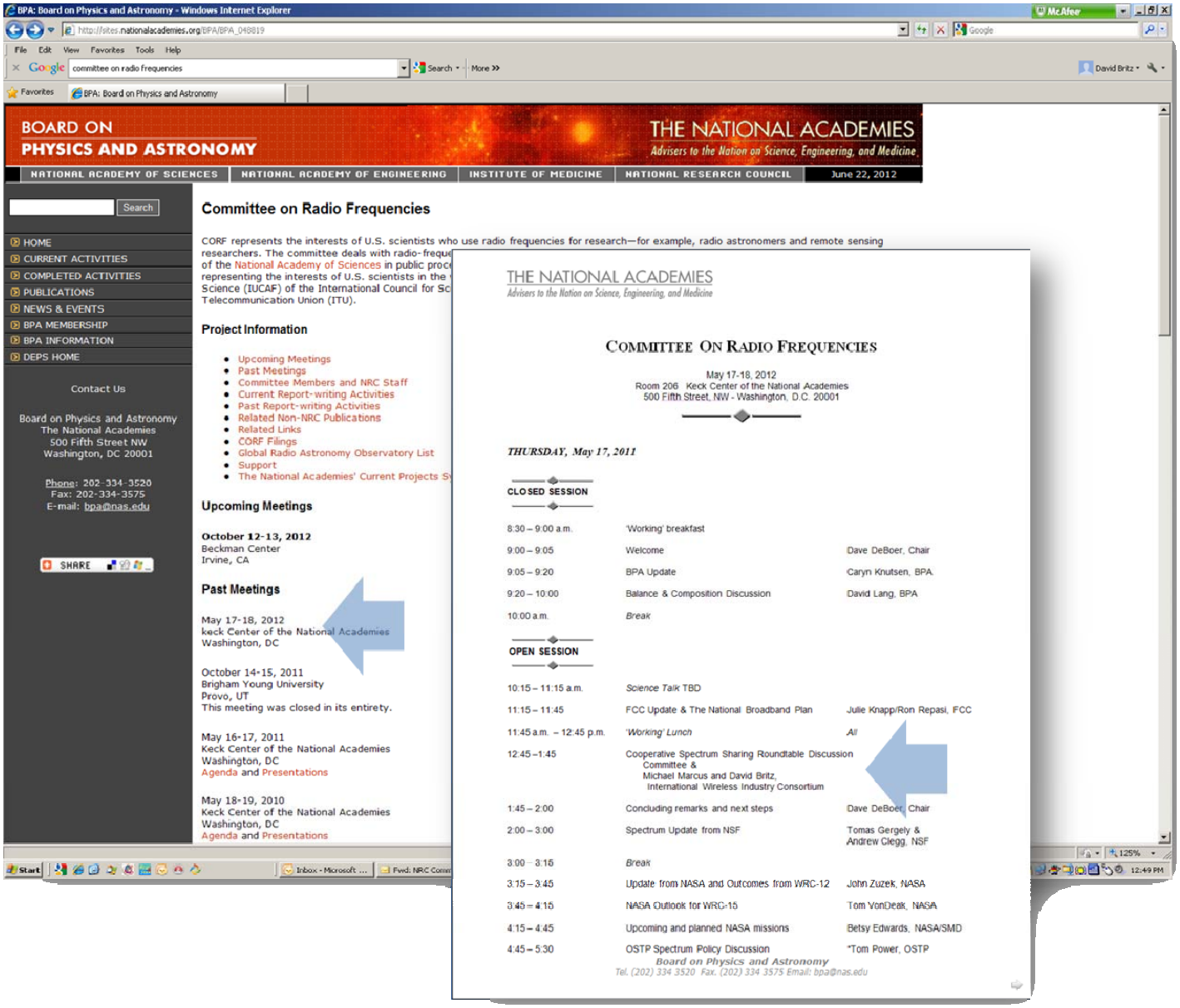
Conference On Radio Frequencies

CORF – National Academies

May 17, 2012 Meeting

Radio Astronomy
EESS Remote Sensing
AT&T Labs Research
Marcus Spectrum Solutions LLC

CORF represents the interests of U.S. scientists who use radio frequencies for research—for example, radio astronomers and remote sensing researchers. The committee deals with radio-frequency requirements and interference protection primarily through filing comments under the aegis of the National Academy of Sciences in public proceedings of the Federal Communications Commission. The committee acts as a channel for representing the interests of U.S. scientists in the work of the Scientific Committee on Frequency Allocations For Radio Astronomy and Space Science (IUCAF) of the International Council for Science and in working groups of the Radio communication Sector of the International Telecommunication Union (ITU).


BPA: Board on Physics and Astronomy - Windows Internet Explorer
BOARD ON PHYSICS AND ASTRONOMY
THE NATIONAL ACADEMIES
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NATIONAL ACADEMY OF SCIENCES
NATIONAL ACADEMY OF ENGINEERING
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June 22, 2012
Committee on Radio Frequencies
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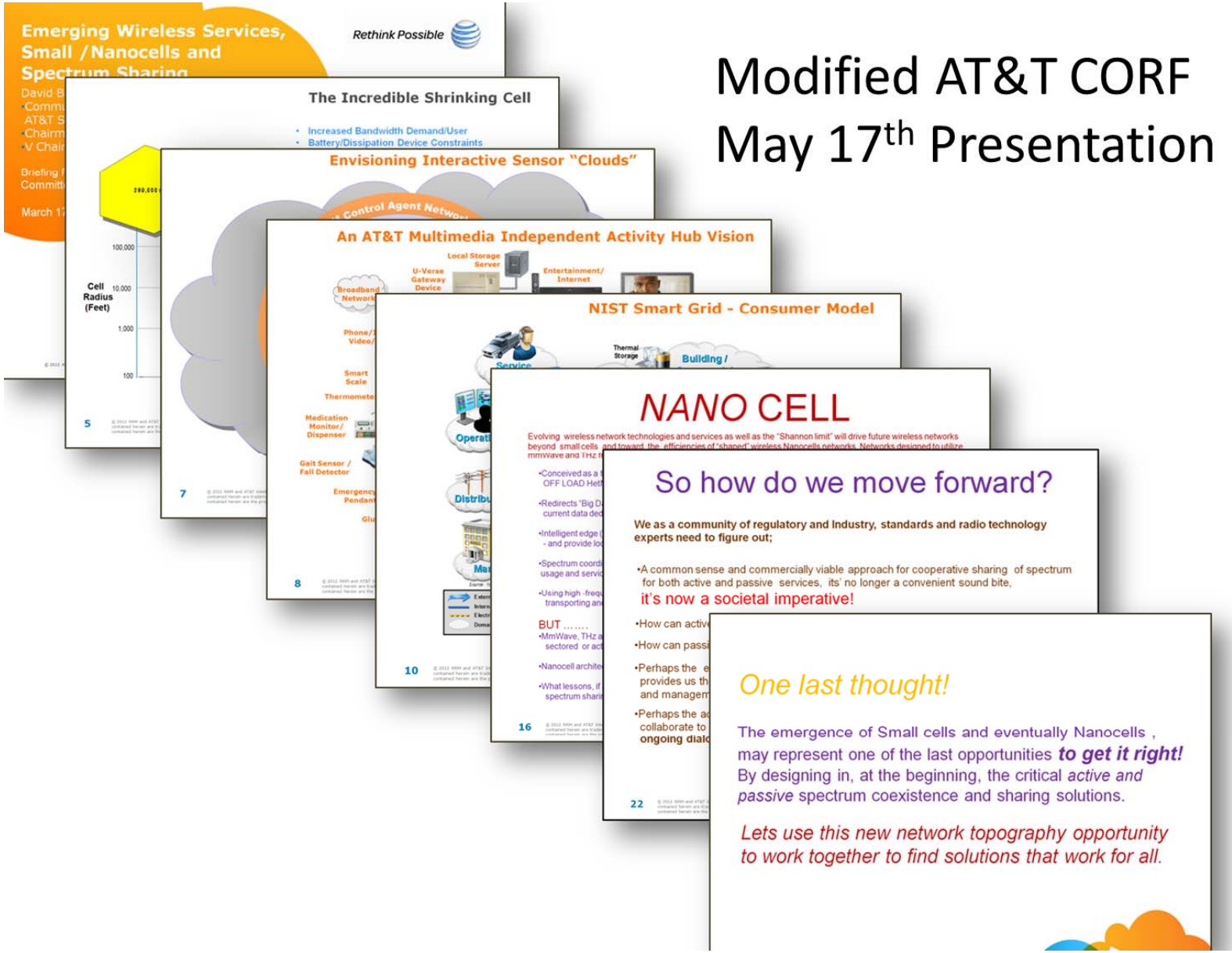
Project Information
Upcoming Meetings
Past Meetings
Committee Members and NRC Staff
Current Report-writing Activities
Past Report-writing Activities
Related Non-NRC Publications
Related Links
CORF Filings
Global Radio Astronomy Observatory List
Support
Upcoming Meetings
October 12-13, 2012
Beckman Center
Irvine, CA
Past Meetings
May 17-18, 2012
keck Center of the National Academies
Washington, DC
October 14-15, 2011
Brigham Young University
Provo, UT
This meeting was closed in its entirety.
May 16-17, 2011
Keck Center of the National Academies
Washington, DC
Agenda and Presentations
May 18-19, 2010
Keck Center of the National Academies
Washington, DC
Agenda and Presentations
THE NATIONAL ACADEMIES
Advisers to the Nation on Science, Engineering, and Medicine
COMMITTEE ON RADIO FREQUENCIES
May 17-18, 2012
Room 206 Keck Center of the National Academies
500 Fifth Street, NW - Washington, D.C. 20001
THURSDAY, May 17, 2011
CLOSED SESSION
8:30 – 9:00 a.m. 'Working' breakfast
9:00 – 9:05 Welcome Dave DeBoer, Chair
9:05 – 9:20 BPA Update Caryn Knutsen, BPA
9:20 – 10:00 Balance & Composition Discussion David Lang, BPA
10:00 a.m. Break
OPEN SESSION
10:15 – 11:15 a.m. Science Talk TBD
11:15 – 11:45 FCC Update & The National Broadband Plan Julie Knapp/Ron Repasi, FCC
11:45 a.m. – 12:45 p.m. 'Working' Lunch All
12:45 – 1:45 Cooperative Spectrum Sharing Roundtable Discussion
Committee &
Michael Marcus and David Britz,
International Wireless Industry Consortium
1:45 – 2:00 Concluding remarks and next steps Dave DeBoer, Chair
2:00 – 3:00 Spectrum Update from NSF Tomas Gergely & Andrew Clegg, NSF
3:00 – 3:15 Break
3:15 – 3:45 Update from NASA and Outcomes from WRC-12 John Zuzek, NASA
3:45 – 4:15 NASA Outlook for WRC-15 Tom VonDeak, NASA
4:15 – 4:45 Upcoming and planned NASA missions Betsy Edwards, NASA/SMD
4:45 – 5:30 OSTP Spectrum Policy Discussion *Tom Power, OSTP
Board on Physics and Astronomy
Tel. (202) 334 3520 Fax. (202) 334 3575 Email: bpa@nas.edu



Modified AT&T CORF May 17th Presentation

Bottom line..... ***neither side is going away!*** So we had better figure out, as a community of common interest, how to work together and coexist in this spectrum space, because the challenges and demand for spectrum will only get worse with time.

CORF Meeting..... *Objectives?*

- To open a discussion between Active and Passive services
- To identify participants and a forum for meetings and discussion
- To initiate and create a means for open dialogue between these two interest groups
- To establish a technical collaboration to define a means for spectrum coexistence at mmWave and THz frequencies
- To identify a means to demonstrate proof of concept for active and passive spectrum coexistence

Possible venues;

- Informal conference call/email dialogue
- 802.15 THz IG meetings Interest group committee
- IWPC MoGIG Spectrum committee
- Other

The *good* news

Both sides of this spectrum issues seem now to recognize the right for the others existence, and viability. Increasingly both sides now realize the need for dialogue and proactive means to identify and define structural, network, standards and technical solutions to support spectrum coexistence

The *bad* news

No current mechanism exists that supports collaboration between active and passive service interests in the 100-600GHz domain. Little means for cooperation has been defined. ***But*** time and the world is not going waiting for us!

- How do we get started, what is the agenda and means to exchange ideas?
- What is the time line, how do we share costs and responsibilities?
- When can we be ready to demonstrate some solutions?
- Whose responsible, whose in charge?

Status

To date two individuals, representing the CORF organization, have indicated their interest in participating in a joint collaboration with "active services" community with the goal of identifying means for spectrum coexistence.

Now we need to respond to this offer - to move forward!