

## ICTS Region 1 report

*(From ICTS LAS VEGAS autumn meeting to ICTS GARMISCH-PARTENKIRCHEN spring meeting)*

The Region I activities comprise the creation of the group's Newsletters; circulation of 6 newsletters; participation in a seminar of ANFR (French National Frequency Agency) on frequency regulation : January 21-23 2002 (before NL #1)

1. Newsletter n° 1: 12 March 2002
2. Newsletter n° 2: 23 March 2002
3. Newsletter n° 3: 9 April 2002
4. Newsletter n° 4: 30 April 2002
5. Newsletter n° 5: 14 May 2002
6. Newsletter n° 6: 4 June 2002

The circulation of the Newsletter is intended to reach for two kinds of receivers :

1. **ICTS members** (already accepted or candidates) following the ICTS charter and by-laws approved Oct. 25 2001 by the International Foundation for Telemetry
2. **Guests** from national frequency institutional managers, specially in Spain and France. This does not induce modifications to the ICTS charter and by-laws.

The list of addresses is sent with each newsletter (newsletter # 5 in attachment):

### Meeting preparation and brief summary

- ETSC & ICTS plenary meeting preparation for ETC '02 **NL n° 2**
- ETTTC'03 general topics **NL n° 2**
- ITEA Instrumentation workshop advertisement (Palmdale CA) **NL n° 2**
- ICTS region 1: presentation of organisation **NL n° 3**
- ICTS annual meeting , 23 October 2002 in San Diego (for election nomination committee) **NL n° 4**
- ICTS charter and by-laws **NL n° 4**
- ETC'02 Garmish final programme **NL n° 5**
- Brief summary of ICTS meeting at Garmish (30 May 2002) **NL n° 6**

### **Technical report**

#### Subject 1

- MITRE Draft Report (see attachment : "Working Group Paper Outline") **NL n° 1**

At the October Working Group Meeting, MITRE took an action to prepare an outline draft of a report on issues associated with augmentation of telemetry spectrum in the 3-30 GHz range. Attached is an initial draft of an outline of that paper which is being circulated to the Working Group for review and comment. Please send comments to me as soon as possible.

I understand that other members of the Working Group were planning to provide additional material for incorporation in this paper. I would appreciate it if such additional material could be provided to me, discussed with me, or circulated among the Working Group as soon as it can be done.

de/from : David Portiga 15/02/02

Contact : [dportiga@mitre.org](mailto:dportiga@mitre.org)

#### Letters to the Editor

- Comment to section 6.b of the Working Group Paper Outline **NL n° 1**

The space agencies of Europe have retained the advanced modulation techniques GMSK and SOQPSK for the high rate telemetry of their spacecraft. The ECSS standard E50-05 has been finalised and is in the process of final review.

The CCSDS worldwide space agencies are going in the same direction; several of them are currently working at the development of the necessary hardware to implement GMSK and SOQPSK. There is to my knowledge no agency currently planning to implement FQPSK.  
Jean-Luc GERNER (ESA) 25/02/02

- Comment to section 6a of the Working Group. Paper Outline **NL n° 2**  
“On the working group paper outline section 6 a, are we missing to include Multi-h CPM in our investigation of use of advanced modulation and multiplexing techniques, which the ARTM Lab at Edwards AFB is looking at ?”

Contributor : Bernd Uwe Wiese (BWB) 13/03/02 [bernd.wiese@bwb.org](mailto:bernd.wiese@bwb.org)

### **Subject 2**

- Launch Vehicle Telemetry Safety Request **NL n° 3**

In pursuing the intersecting telemetry spectrum interests between Defence and the civil space community, the Australian Federal Office that is responsible for launch safety has posed a question about the spectrum necessary to support launch vehicle safety. This, by necessity, should embrace command/destroy/flight termination, as well as launch vehicle telemetry behavioural monitoring and/or telecommand/control. I'm not sure who works the link error margins to satisfy the safety requirements but some points of contact would be useful to get the ball rolling on this topic.

Note that the inquiry relates to launch vehicle support and NOT to any operational TT&C or telemetry data-links that are associated with satellites or platforms once launched in space.

Contributor : Vivian Crouch, ICTS Chair & Coordinator ICTS Region 3 - Asia/Pacific  
(28/03/02) [vivian.crouch@dsto.defence.gov.au](mailto:vivian.crouch@dsto.defence.gov.au)

### **Letters to the Editor**

For example, Jean Isnard (SEE) [jisnard-isti@club-internet.fr](mailto:jisnard-isti@club-internet.fr) quotes UHF bands for launch vehicle range safety command **NL n° 3**

“launch vehicle range safety command destruct receivers in the 449.75-450.25 MHz band (extract from RR §5.286) as well as around 421.0, 425.0, 427.0, 440.0 and 445.0 MHz in the USA and, in the French Overseas Departments in Region 2, the 433.75-434.25 MHz band (extract from RR §5.281)”.

### **Subject 3**

- Usage of the 4.4-4.99 and 14.7145-15.1365 GHz Bands in the USA (3 attachments)  
**NL n° 3**

Contributor: Mikel R. Ryan ICTS Region II Coordinator [ryanmr@navair.navy.mil](mailto:ryanmr@navair.navy.mil)

### **Subject 4**

- UK Radio Spectrum Management Report (attachment : 2) **NL n° 4**

Steve Lyons from QinetiQ Aberporth (ex-DERA) has sent us the recent report (see pdf attachment) on UK spectrum prepared by consultants for the UK DTI / Treasury. This report, along with other UK spectrum management documentation, is available from the **DTI's Radiocommunications Agency** which sponsors a useful web site :

[www.radio.gov.uk](http://www.radio.gov.uk)

and also hold roadshows to communicate plans and seek comments etc. The RA is now part of OFCOM, a newly created government body.

Contributor : Steve Lyons, QinetiQ Aberporth (& UK Region I Coordinator)  
[swlyons@qinetiq.com](mailto:swlyons@qinetiq.com) (02/05/02)

Letters to the Editor

- With regard to the [UK Radio Spectrum Management Report](#) which appeared courtesy of Steve Lyons (QINETIQ UK) in the last Newsletter (#4 - dated 30 April 2002) **NL n° 5**.

I did notice a mention that the Radio Agency was now part of OFCOM. I'm afraid that this is a little premature though almost inevitable !! The legislation setting up OFCOM is going through the parliamentary process and we anticipate becoming part of the new super-regulator about the end of 2003.

For further information, you can consult :

[www.communicationsbill.gov.uk](http://www.communicationsbill.gov.uk)

Contributor : Mike Low (UK Radio-communications Agency)

**Subject 5**

- Frequency Band Sharing : Utopia or Reality ? (see attachment) **NL n° 5**

Jean Isnard (SEE, France) has sent us the attached revised version of a paper he presented at the [2001 CIE International Conference on Radar held in Beijing PRC](#), 15-18 October 2001. This article appears with the IEEE's permission and is due to be published in the May issue of the IEEE's "AES Magazine" (ISSN 0885-8985, Volume Seventeen, Number 5).

Contributor : Jean ISNARD, SEE (France) [jisnard-isti@club-internet.fr](mailto:jisnard-isti@club-internet.fr) (07/05/02)

Letters to the Editor

- We have received the following comment **NL n° 6**

§ 3.2 The moving to the band 2.9-3.1 GHz is actually irrelevant. In the low part of band 2.7-2.9 GHz, partition capacity with aeronautical test telemetry frequency has already been found

§ 3.3 It is not quite conceivable to exclude radar from this band

Contributor : [Bmnf@dga.defense.gouv.fr](mailto:Bmnf@dga.defense.gouv.fr)