

# European Telemetry Conference etc2008

Monday, 14. April 2008

Meeting Room „A“

9.30 – 12.30 **Overview of IRIG-106 Telemetry Standards**  
presented by Tim Chalfant et al.

*Lunch Break*

14.00 – 17.00 **iNET Course**  
presented by David Hodack NavAir et al.

Tuesday, 15. April 2008

Meeting Room „A“

## Opening Session

10:00 **Welcome and Opening Addresses**  
President of the European Society of Telemetering Werner R. Lange  
Chairman of the European Telemetry Conference etc2008 Guenter Müller  
Co-Chairman of the European Telemetry Conference etc2008 Steve Lyons

10:30 **An Assessment of Minimal Capital Investments to Maximize Spectrum Efficiency**  
Derrick Hinton Test Resource Management Center

11:00 **Bild & Telemetrieübertragung aus den Flugzeugen des Red Bull Air Race**  
dipl. El. Ing. HTL Marco Biner SkyMedia AG

*Lunch Break*

## ICTS Session

13:00 **Welcome of ICTS chairman & introduction**  
Gerhard Mayer, Germany

13:30 **The ICTS, 10 years of intensive work towards the WRC 2007**  
Darrell Ernst & Gerhard Mayer

14:00 **WRC 2007 : Results for AI 1.5, summary of articles & resolutions**  
relevant to Flight Test Telemetry  
Martin Weber, Germany

### Reports

- Region 1 (Europe + Africa) (Jean-Claude Ghnassia, France)
- Region 2 (the Americas) (Mikel Ryan, USA)
- Region 3 (Asia + Pacific) (Michael Harris, Australia)

15:00 *Coffee Break*

15:30 **New telemetry spectrum – use it or lose it** (Frank Kitchen, UK)

16:00 **Round table discussion** (Steve Lyons, UK)

Meeting Room „B“

## Session: Data Management

14:00 **Incorporation of Measurement Science into Flight Test Instrumentation**  
Timothy A. Chalfant US Air Force Flight Test Center 412th Test Wing/ENTI

14:30 **Early integration of telemetry systems with a model based test approach**  
Rainer Grimm Berner & Mattner Systemtechnik GmbH

15:00 *Coffee Break*

15:30 **A Web Search Engine to Flight Test Data**  
Antonio Magno L. Espeschit EMBRAER Flight Test Division

16:00 **Data-Management: Generating Information out of data**  
Dipl. - Inform. (FH) Alexander Löw Data-Warehouse GmbH

Meeting Room „C“

## Session: Biotelemetry

13:30 **Intra corporal Temperature Telemetry Using a Passive Transponder**  
Dr. Francis Rodes University of Bordeaux

14:00 **Telemetry for an intra-oral Drug Delivery System**  
Dr. Oliver Scholz Fraunhofer IBMT

14:30 **Real-time tracking of moose using GPS and GSM telemetry in Scandinavia: Internet based database and mapping tools for foresters and hunters**  
Dr. Holger Dettki Swedish University of Agricultural Sciences

15:00 *Coffee break*

15:30 **15 years' satellite tracking of raptors**  
Prof. Dr. Bernd-U. Meyburg WWGBP

Session: Data Link

- 09:00 **Hardware considerations for a particle filter based demodulator**  
Henry Chandran NAVTEL SYSTEMS SA
- 09:30 **Improving the Accuracy of Real-time PCM Test Data Using Adaptive Best Data Engine Technology**  
Ciaran O'Shea Wyle Laboratories
- 10:00 **Baseband PCM/FM Link Enhancement**  
Sinbad Wilmot ACRA CONTROL
- 10:30 *Coffee Break*
- 11:00 **On Iterative Equalization in Aeronautical Telemetry**  
Professor Michael Rice Brigham Young University
- 11:30 **Architectural Optimization in Satellite TCR Systems through Reliability Analysis**  
Erdem Demircioglu Turksat AS
- 12:00 **Conformity Assessment for Wide Band Data Transmission Equipment under EU MRAs**  
Dipl.-Ing. Uwe Kartmann CETECOM ICT Services GmbH
- Lunch Break*
- 14:00 **Real Time Telemetry Options for Ocean Observing Systems**  
Bridget Benson University of California Santa Barbara
- 14:30 **Integration approach and flight testing of a wide band data link within a multi-link network study**  
Andrea Marey EADS Military Air Systems
- 15:00 *Coffee Break*
- 15:30 **Wave propagation above realistic ground for data link simulation of combined wing tip antennas**  
Reinhard Janssen EADS Deutschland GmbH
- 16:00 **Advancements in Digital Receiving technology with Telemetry Processing System Applications**  
Tom Leisgang Wyle Laboratories
- 16:30 **Encrypted Data Transmission in Telemetry System**  
Dipl.-Ing. Miao Liucheng Beijing Institute of Tracking and Telecommunication Technology

Session: Applications

- 09:00 **Space-Based Relay Telemetry System Design of Launch Vehicle**  
Dr Gao Xiangwu China Academy of Launch Vehicle Technology
- 09:30 **Lessons learned from software scalable conditioning and acquisition units on ARIANE 5 launcher and outlooks for the telemetry system enhancement.**  
Thierry NOBLET EADS ASTRIUM
- 10:00 **AJAX: A New Twist On Existing Technologies**  
Mike Gilorma Apogee Labs
- 10:30 *Coffee Break*
- 11:00 **Ground Based Facility for the Support of Flight Tests Requiring MIDS Data**  
Dr. Jürgen Zweigle EADS DS / MAS
- 11:30 **Non-Instrusive Airborne Wireless Instrumentation Demonstration**  
Dennis Manning USAF
- 12:00 **A Novel Programable Signal Emulator System for an Airborne PCM Data Acquisition System**  
Dr. Paiva Oliveira Leite Nelson CTA-GEEV P&D

*Lunch Break*

Session: Ground Systems

- 14:00 **Best Source Selection - A Next Generation Implementation**  
Steve Nicolo GDP Space Systems
- 14:30 **Trends in Ground Station Telemetry Receivers**  
Douglas O'Cull Systems Engineering and Management Company

15:00 *Coffee Break*

Session: XML

- 15:30 **Using XML in an FTI Environment**  
Alan Cooke ACRA Control Ltd.
- 16:00 **Open Forum XML**



Thursday, 17. April 2008

Meeting Room „A“

Session: UAV

- 09:00 **UAVs moving from proprietary to networked Systems**  
Jürgen R. Bittner Industrieanlagen Betriebsgesellschaft mbH
- 09:30 **Optimizing the Data Link For Small Tactical Unmanned Aerial Systems**  
Michael Kulinski Enerdyne
- 10:00 **Finding spectrum for UAS at the WRC 2011 ? How industries are able to support that process**  
Martin Weber Bundesnetzagentur
- 10:30 *Coffee Break*

Session ETSC

- 11:00 ETSC Business Meeting
- 11:30 ETSC Business Meeting
- 12:00 ETSC Business Meeting
- 12:30 ETSC Business Meeting

*Lunch Break*

- 14:00 **Education Day**

Meeting Room „B“

Session: Antennas

- 09:00 **Research on Antenna Arraying Techniques for China's Lunar Exploration Program**  
Dr. Suquan Ding Beijing Institutes of Tracking and Telecommunications Technology
- 09:30 **Aerospace Vehicle Geometry Effects on Omni-Directional Antenna Radiation Patterns**  
David Farr Haigh-Farr, Inc
- 10:00 **A Novel Defected Ground Structure for Microwave Planar Circuits**  
Lu Liming Electronic Engineering Institute of China
- 10:30 *Coffee Break*
- 11:00 **Phased Array Antennas for Enhancing Mobile Wireless Datalinks**  
Stephen Watson QinetiQ
- 11:30 **Smoothed antenna movement by using an Alpha-Beta algorithm**  
Klaus Weber EADS Military Air Systems

Meeting Room „C“

Session: Network

- 09:00 **Measurement-Centric Data Model for Instrumentation Configuration**  
William Malatesta US Navy
- 09:30 **Network Design Considerations in Telemetry Systems**  
Wayne Klein Apogee Labs
- 10:00 **Network Based data Acquisition**  
Lee Eccles Boeing Commercial Airplanes
- 10:30 *Coffee Break*
- 11:00 **Networked DAU Topologies**  
Diarmuid Corry ACRA Control Ltd.
- 11:30 **Vehicle Network Technology Demonstration**  
Thomas Grace iNET Program Office
- 12:00 **A System Management in Network-Based Flight Test Systems**  
Michael S. Moore Southwest Research Institute