

THURSDAY, DEC. 8TH, 2011

09:00-09:30: Name tag distribution. Only pre-registered* guests can attend the workshop.

09:30-10:00: Opening and Introduction from the Head of ENAC and the Organizing Committee

10:00-10:30: 'Status of the European GNSS Programmes', European Commission

Signal Performance 1

Co-chairs: C. Macabiau (ENAC, France) and M. Crisci (ESA, The Netherlands)

10:30-10:55	<i>The Effect of Group Delay on GNSS BOC signals : transmit filters, ionosphere, receive filters: does the spectrum analyser tell the truth?</i> MATTOS P., STMicroelectronics, UK
10:55-11:20	<i>Code tracking of high-order BOC modulations in the Presence of Signal Distortion and Multipath</i> ALEGRE-RUBIO J., LOPEZ-RISUENO G., ESA, The Netherlands; PALESTINI C., GSA, Belgium
11:20-11:45	<i>First Results of the Implementation of the Coherent E5 ALTBOC Processing</i> MARTIN N., GUICHON H., REVOL M., Thales Avionics, France,
11:45-12:10	<i>Offline Analysis of the Frequency and Modulation Performance for Beidou GEO Signals</i> HE C.-Y., LU X.-C., WANG X., LIU F., RAO Y, ZHAO H., Chinese Academy of Science, China

12:10-13:30 Lunch Break at ENAC restaurant

Signal Performance 2

Co-chairs: F. Antreich (DLR, Germany) and S. Wallner (ESA, The Netherlands)

13:30-13:55	<i>Improved Analytical Models of SNIR Degradation in Presence of Pulsed Signals and Impact of Code-Pulse Synchrony</i> SOUALLE F., CATTENOZ M., ZECHA C., EADS Astrium Gmbh, Germany; GIGER K., GUNTHER C., TU Munich, Germany
13:55-14:20	<i>Spectral Line Analysis for Accurate Interference Assessment on GNSS Signals</i> FONTANELLA D., Univ. FAF Munich, Germany
14:20-14:45	<i>Ziv-Zakai bound for Time-Of-Arrival Estimation of GNSS Signal-In-Space</i> EMMANUELE A., LUISE M., Univ. of Pisa, Italy; ZANIER F., CRISCI M., ESA, The Netherlands
14:45-15:10	<i>Toward Centimetric Positioning using L- and S GNSS Bands and Meta-GNSS Signals</i> ISSLER J.-L., CNES, France; PAONNI M., EISSFELLER B., Univ. FAF Munich, Germany
15:10-15:35	<i>VRS and the New GNSS Signals: Brazilian Context</i> DE OLIVEIRA JR P. S., ALVES D. B. M., GALERA MONICO J. F. FCT/UNESP, Brazil; MOREL L., L2G/ESGT, France

15:35-16:05 Coffee Break

Positioning using Signals-of-Opportunity

Co-chairs: B. Eissfeller (Univ FAF Munich, Germany) and M. Caporale (ASI, Italy)

16:05-16:30	<i>Positioning Using the Future L-band Communication System L-DACS1</i> SCHNECKENBURGER N., HOFFMAN F, EPPEL U., SCHNELL M., BELABBAS B., MEURER M., DLR, Germany
16:30-16:55	<i>L-DACS1 for an Alternate Positioning Navigation and Time Service</i> BELABBAS B., FELUX M., MEURER M., SCHNECKENBURGER N., SCHNELL M., DLR, Germany
16:55-17:20	<i>Use of DVB-T Signals for Positioning in Dynamic Scenarios</i> HUANG J., LO PRESTI L., JIA Y., GARELLO R., Politecnico di Torino, Italy; SACCO B., RAI R&T Innovation Center, Italy
17:20-17:45	<i>Preliminary Analysis of the Positioning Capabilities of the Positioning Reference Signal of 3GPP LTE</i> DEL PERAL-ROSADO J., LOPEZ-SALCEDO J. A., SECO-GRANADOS G., Univ. Autonoma Barcelona, Spain; ZANIER F., CRISCI M., ESA, The Netherlands

18:45-20:15 Cocktail in Toulouse City Center (Transportation organized)

FRIDAY, DEC. 9TH, 2011

Signal Design 1: New Modulations

Co-chairs: L. Lestarquit (CNES, France) and J.A. Avila-Rodriguez (ESA, The Netherlands)

08:45-09:10	<i>On Backward Compatibility in GNSS Signal Design</i> ANTREICH F., DLR, Germany; DE FLOCH J.-J., EADS Astrium, Germany; ISSLER J.-L., CNES, France; NOSSEK J. A., TU Munich, Germany
09:10-09:35	<i>Non-symmetrical ALTOC multiplexing scheme for Compass B1-C Signal Design</i> ZHU L., YIN H., YAO Z., LU M., Tsinghua University, China
09:35-10:00	<i>Time Domain Multiplex Methods in Signal Generation</i> PRATT A. R., Qinetiq Ltd, UK

10:00-10:30 Coffee Break

Signal Design 2: Navigation Message and Data Decoding

Co-chairs: M. Paonni (Univ FAF Munich, Germany) and A. R. Pratt (Qinetiq Ltd, UK)

10:30-10:55	<i>Proposed LOS Signal Design for IRNSS to Reduce TTF in a Single Frequency Receiver</i> RAO V. G., MAA, S., Accord Software, India; LACHAPPELLE G. Univ. of Calgary, Canada
10:55-11:20	<i>Faster Time-To-First-Fix using SBAS</i> SAMSON J., GARCIA, A., CRISCI M., ESA, The Netherlands
11:20-11:45	<i>Proposed Code and Carrier Dimension Dependent Signal Design for Optimal TTF in IRNSS</i> RAO V. G., MAA, S., Accord Software, India; LACHAPPELLE G. Univ. of Calgary, Canada
11:45-12:10	<i>A Fresh Look into Designing Channel Error Protection Codes for Satellite Navigation Messages</i> ANGHILERI M., PAONNI M., EISSFELLER B., Univ. FAF Munich, Germany; LUISE M. PEROTTI A., TARABLE A., WISER, Italy; LOPEZ-RISUENO G., ZANIER F., ESA, The Netherlands

12:10-13:30 Lunch Break at ENAC restaurant

Signal Design 3: Use of Multi-Carrier Modulations

Co-chairs: F. Zanier (ESA, The Netherlands) and L. Ries (CNES, France)

13:30-13:55	<i>Filtered Multitone (FMT) Modulation for GNSS Applications</i> EMMANUELE A., LUISE M., Univ. of Pisa, Italy; ZANIER F., CRISCI M., ESA, The Netherlands
13:55-14:20	<i>Receiver Architecture for Multicarrier-based GNSS Signals</i> WON J.-H., FONTANELLA D., PAONNI M., EISSFELLER B., Univ FAF Munich, Germany; EMMANUELE A., LUISE M. Univ. of Pisa, Italy; GARCIA-PENA A., JULIEN O., MACABIAU, C., ENAC, France; ZANIER F., LOPEZ-RISUENO, G. ESA, The Netherlands
14:20-14:45	<i>Doubly Spread CDMA Signals for GNSS</i> VERGARA M., ANTREICH F., DLR, Germany; SECO G., Univ. Autonoma de Barcelona, Spain

14:45-15:05 Coffee Break

Hardware

Co-chairs: M. Meurer (DLR, Germany) and M. Sahnoudi (ISAE, France)

15:05-15:30	<i>NAVYS : High-End Flexible and Multi-GNSS Constellation RF Simulator</i> CAPDEVILLE P., ELTA, France
15:30-15:55	<i>ALADDIN : A Mobile GNSS BitGrabber with Antenna Diversity</i> CAPDEVILLE P., ELTA, France

15:55-17:00 Panel Discussion and Conclusions

* Register before Nov. 21st 2011 at <http://cnes.cborg.net/cct/bipublicgb.html>.