Organised by the Research Group of Astronomy and Geomatics (gAGE/UPC)

Scope of the Workshop

The objective of the GNSS Excellence Week is to provide to young researchers the possibility to discuss, benchmark and get advice about their own research work by meeting some of the best non-European and European researchers. It includes seminars to students and researchers as well an interactive workshop. Complementary actions are the provision of lectures from the guest researcher towards graduate students, interface with local industrial actors and interaction with local researchers.

This workshop is complementary with respect to the PhD training, and other activities of the E-KnoT project [http://www.eknotproject.eu](http://www.eknotproject.eu).

Invited Speakers

- **Dr. Juan Blanch**, Senior Researcher Engineer, Stanford University, USA
- **MSc. Jordi Alba Granados**, Secretariat for Universities and Research, Generalitat de Catalunya, Spain
- **Dr. David Altadill**, Director of Ebre Observatory, Ebre Observatory, Spain
- **Dr. Àngela Aragón Angel**, Scientific Support Officer, European Commission, Joint Research Centre (JRC), Italy
- **MSc. Anna M. Baron**, Developer at Geodesy Unit in ICGC Institut Cartogràfic i Geològic de Catalunya (ICGC), Spain
- **MSc. Beatriz Bonet**, GNSS Project Manager, GMV, Spain
- **Prof. Dr. Adriano Camps**, Full Professor, Universitat Politècnica Catalunya (UPC), Spain
- **MSc. Pere Durbà**, Senior Project Manager, Satellite Navigation Systems, Indra, S.A., Spain
- **MSc. Jorge Fuentes**, Manager of ESA BIC Barcelona, ESA BIC Barcelona, Spain
- **Dr. Miquel García-Fernandez**, Technical director, Rokubun, Spain
- **Prof. Dr. Guillermo González**, Associate Professor, Universitat Politècnica Catalunya (UPC), Spain
- **Prof. Dr. José M. Juan Zornoza**, Associate Professor, Universitat Politècnica Catalunya (UPC), Spain
- **Dr. Xianglin Liu**, Lead of GNSS Algorithm Team, Fugro Intersite B.V., The Netherlands
- **Prof. Dr. José A. López-Salcedo**, Associate Professor, Univ. Autònoma de Barcelona (UAB), Spain
- **Dr. Raúl Orús Pérez**, Propagation Engineer, ESTEC/ESA, The Netherlands
- **MSc. Jorge Querol**, Winner of ESNC BCN Challenge, Universitat Politècnica Catalunya (UPC), Spain
- **Dr. Pere Ramos Bosch**, Flight Dynamics Engineer, ESOC/ESA, Germany
- **MSc. Marc Solé**, Aerospace Engineer, Pildo Labs, S.L., Spain


Chairman: Jaume Sanz (jaume.sanz@upc.edu)
Tuesday Jan 19th, 2016

Session 1: GNSS Navigation and Integrity
14:00-14:40 Multi-constellation GNSS integrity: the aviation example
   Dr. J. Blanch (Stanford Univ., USA)
14:40-15:20 Sequential tests for GNSS signal-level integrity
   Dr. J.A López-Salcedo (UAB, Spain)
   Coffee Break
15:40-16:20 World-wide Fast-PPP with ambig Fixing
   Dr. JM Juan (gAGE/UPC, Spain)
16:20-17:00 FENIX-Front-End GNSS Interference eXcisor
   MSc. J. Querol (UPC, Spain)
   Coffee Break
17:20-17:50 Discussion with PhD. Students
   Moderator: Dr. J. Blanch (Stanford Univ., USA)

Wednesday Jan 20th, 2016

Session 2: GNSS Industry
08:30-09:00 Indra Activities on GNSS
   MSc. P. Durba (Indra, Spain)
09:00-09:30 Pildo Activities on GNSS
   MSc. M. Solé (Pildo Labs, Spain)
09:30-10:00 Fugro Activities on GNSS
   Dr. Xianglin Liu (Fugro, The Netherlands)
10:00-10:30 ESA BIC Barcelona, the space technology business incubator in BCN
   MSc. J. Fuentes (ESA BIC Barcelona, Spain)
   Coffee Break
11:00-11:30 GMV Activities on GNSS
   MSc. B. Bonet (GMV, Spain)
11:30-12:00 Industrial Doctorate
   MSc. J. Alba (Secr. for Univ. and Res.)
12:00-12:30 So, you want to be a GNSS Engineer?
   Dr. M. García-Fernández (Rokubun, Spain)
12:30-13:00 Professional Careers at ESA
   Dr. P. Ramos (ESOC/ESA, Germany)
   Lunch (included)

Session 3: GNSS signal propagation
14:30-15:10 Propagation effects and related error sources on GNSS signals
   Dr. R. Orús (ESTEC/ESA, The Netherlands)
15:10-15:50 GNSS related activities at JRC
   Dr. A. Aragón (EC, JRC, Italy)
   Coffee Break
16:20-17:00 Net-TIDE project. Identifying TIDs
   Dr. D. Altadill (Ebre Observatory, Spain)
17:00-17:40 Sounding the ionosphere/plasmasphere with radio occultations
   Dr. G. Gonzalez (gAGE/UPC, Spain)
   Coffee Break
18:00-18:30 Discussion with PhD. Students
   Moderator: Dr. R. Orus (ESTEC/ESA)

Dinner: Get together (on your own)

Thursday Jan 21st, 2016

Session 4: GNSS Applications
09:00-9:40 Setting up the Galileo Constellation
   Dr. P. Ramos (ESOC/ESA, Germany)
09:40-10:20 ICGC services provisioning to scientific & professional communities
   MSc. AM. Baron (Institut Cartogràfic Cat)
10:20-11:00 GNSS-R: Principles and 15 years of UPC contributions
   Dr. A. Camps (UPC, Spain)
   Conclusions and Farewell
11:30-13:30 Academic Event: PhD Dissertation
   PhD Candidate: A. Rovira-Garcia (gAGE)
   Cocktail
16:00-18:00 Academic Event: PhD Dissertation
   PhD Candidate: H. Carreño Luengo (TSC)
   Cocktail