



International Committee on  
Global Navigation Satellite Systems

## **AGENDA**

### **Ninth Meeting of the International Committee on Global Navigation Satellite Systems**

**Prague, Czech Republic**

**10 – 14 November 2014**

**Sunday, 09 November 2014**

**Venue:** *The European GNSS Agency (GSA) Building, Janovského 438/2*

**12:30 – 18:00**     **On-site Registration**

**14:00 – 18:00**     **First Providers' Forum Meeting**

**16:00 – 17:00**     **Meeting with the Working Groups Co- Chairs**

**17:00 – 18:00**     **Providers' Forum Meeting (to be continued as needed)**

**10 – 14 November 2014**

**International Committee on Global Navigation Satellite Systems**

**PLENARY SESSIONS**

**Monday, 10 November 2014**

**Venue:** *Narodni Dum na Smichove (Náměstí 1, října 82/16, 150 00 Praha-Smíchov)*

**08:00 – 14:00**     **On-site Registration**

**09:00 – 13:00**     **First Plenary Session of the ICG**

*Chair:* Christian SIEBERT, *Head of Unit Galileo International Relations, European Commission*

*Attended by all.* The primary purpose is for the GNSS system and augmentation providers to present the status and future plans for their systems, and an opportunity for the ICG members, associate members and observers to provide updates on recent developments in their organizations and associations with regard to GNSS services and applications. All presenters will identify issues for discussion in the ICG plenary sessions and/or its working groups meetings

**09:05**                 **Welcome/Opening Remarks**

**09:05**                 Karel DOBEŠ, *Deputy Minister of Transport, Czech Republic*

Christian SIEBERT, *Head of Unit Galileo International Relations, European Commission*

Carlo des DORIDES, *Executive Director, European GNSS Agency*

Simonetta DI PIPPO, *Director, United Nations Office for Outer Space Affairs*

**09:35 – 09:40**     **Adoption of Agenda**

**09:40 – 13:00 Providers System and Service Updates**

- 09:40 Status Update on the European Satellite Navigation System (GALILEO) and the European Geostationary Navigation Overlay Service (EGNOS) programmes, Christian SIEBERT, *Head, Unit of Galileo and EGNOS: Applications, Security and International Cooperation, DG Enterprise and Industry, European Commission*
- 10:00 The Policy and Status Update Global Positioning System (GPS), Harold MARTIN, *Director, National Coordination Office, United States*
- 10:20 Global Navigation Satellite System (GLONASS) Status and modernization plans, Sergey KARUTIN, *Head of Information and Analysis Centre for PNT, Russian Federation*
- 10:40 Development of the BeiDou Satellite Navigation System, Chengqi RAN, *Director, China Satellite Navigation Office, China*
- 11:00 – 11:20 *Coffee Break*
- 11:20 The Indian Regional Navigation Satellite System (IRNSS) and the GPS-aided GEO-Augmented Navigation System (GAGAN), Alak BANIK, *Space Applications Centre, Indian Space Research Organization, India*
- 11:40 Status Update The Quasi-Zenith Satellite System (QZSS), Akihiro MATSUMOTO, *Senior Coordinator, Office of National Space Policy, Cabinet Office, Japan*
- 12:00 – 13:30 *Group photo/Lunch*

**13:30 – 15:50 Presentations by Members, Associate Members and Observers on Matters of Interest to ICG**

- 13:30 Office for Outer Space Affairs as the ICG Executive Secretariat, Sharafat GADIMOVA, *United Nations Office for Outer Space Affairs*
- 13:40 Need for GNSS higher integrity, Mario CAPORALE, *Italian Space Agency, Italy*
- 13:50 Current state and perspectives of the UTS(SU) broadcast using GLONASS, Andrey DRUZHIN, *Russian Institute of Radio Navigation and Time*, and Vitaliy PALCHIKOV, *Russian Metrological Institute of Technical Physics and Radio Engineering, Russian Federation*
- 14:05 ITU's role in GNSS, Attila MATAS, *International Telecommunication Union*
- 14:15 User Mapping Problems, Captain Bill BURNS, *Civil GPS Service Interface Committee*
- 14:25 An update on the International Terrestrial Reference Frame, Zuheir ALTAMIMI, *International Earth Rotation and Reference Systems Service*

- 14:35 The IGS in its 20th Anniversary Year: new GNSS activities related to MGEX and the Real-Time Service, Chris RIZOS, *International Association of Geodesy*, and Ruth NEILAN, *International GNSS Services*
- 14:50 The Global Geodetic Reference Frame: A UN-GGIM initiative and implications for GNSS, Zuheir ALTAMIMI, *International Association of Geodesy*, and Ruth NEILAN, *International GNSS Services*
- 15:05 EUREF and EUPOS activities in a Knowledge Exchange Network for European GNSS users, Johannes IHDE, *EUREF* and Artur ORUBA, *EUPOS*
- 15:20 The Benefits of Education and Capacity Building of GNSS in Destitute Regions, Refaat Rashad MOSTAFA, *Arab Institute of Navigation*
- 15:30 GNSS open signals: a *de facto* global public good with governance issues, Serge PLATTARD, *European Space Policy Institute*
- 15:40 An update on the GNSS activities, Jina MACEACHEM, *Canada*
- 15:50 – 16:10 *Coffee Break*
- 16:10 – 18:00 Applications and Experts Seminar**
- Chair: Christoph KAUTZ, Deputy Head of Unit for Galileo and EGNOS Applications, security, international cooperation, DG Enterprise and Industry, European Commission*
- Attended by all. The primary purpose is for participants or invited presenters to raise awareness of issues and/or opportunities in user applications and GNSS technology for consideration by the ICG and/or its working groups.*
- 16:10 Assuring PNT- A PTA Program and Recommendations of the US PNT Advisory Board, Dr. Brad PARKINSON, *Acting Chair, National Space-based PNT Advisory Board, United States of America*
- 16:40 GNSS application market opportunities, Gian-Gherardo CALINI, *European GNSS Agency, Czech Republic*
- 16:55 High precision agriculture and machine control with GLONASS, GPS and other GNSS, Ivan DI FEDERICO, *Topcon Positioning Systems Ltd, Russian Federation*
- 17:10 Progress of BeiDou Navigation Satellite System Applications, Miao TIAN, *Programme Manager, International Cooperation Center, China Satellite Navigation Office, China*
- 17:25 GNSS for Train Control and Management Systems: Challenges and Opportunities for a Global Services, Francesco RISPOLI, *ANSALDO STS, Italy*
- 17:40 Satellite Services for Personal Air Transportation, Antonio MONTELEONE, *NAIS, Italy*
- 18:00 Adjourn**

**18:45 – 20:30** **Welcome Dinner: *Mlýnec*** (*Novotného lávka 9*)

## **Tuesday, 11 November 2014**

**08:00 – 14:00** **On-site Registration**

**09:00 – 10:40** **Meeting of the Providers with the ICG Members, Associate Members, Observers and invited observers**

*Co-Chairs: Pieter DE SMET, European Commission and Xiancheng DING, China*

*Attended by all. The primary purpose is to discuss issues of common concern that have emerged during earlier sessions and/or ICG meetings, and to focus on getting user input to gain insight into users' needs/requirements.*

*10:40 – 11:00* *Coffee Break*

## **Working Groups Meetings (Parallel Sessions)**

**11:00 – 13:00** **WG A – Compatibility and Interoperability**

*Co-chairs: David TURNER, Department of State, United States of America and Sergey REVNIVYKH, ISS Reshetnev Corporation, Russian Federation*

**11:00 – 13:00** **(in parallel) WG C – Information dissemination and capacity building**

*Co-chairs: Sharafat GADIMOVA, Office for Outer Space Affairs and Arunima SENGUPTA, European Commission*

*13:00 – 14:00* *Lunch*

**14:00 – 18:00** **WG A – Compatibility and Interoperability (continues)**

**14:00 – 18:00** **(in parallel) WG C – Information dissemination and capacity building (continues)**

**15:00 – 18:00** **(in parallel) WG –D meeting - to be continued on Wednesday, 12 November 2014 beginning at 09:00 hours**

*16:00 – 16:20* *Coffee Break*

**18:00** **Adjourn**

**19:00 – 21:00** **Dinner Reception at GSA Headquarters** (Janovskeho 438/2, 17000 Prague 7, Holesovice)

## **Wednesday, 12 November 2013**

**08:00 – 14:00** **On-site Registration**

## **Working Groups Meetings**

## (Parallel Sessions)

### 09:00 – 13:00 **WG B – Enhancement of performance of GNSS services**

*Co-chairs: Alak BANIK, Indian Space Research Organization, India and Stefan WALLNER, European Space Agency (ESA)*

### 09:00 – 13:00 **(in parallel) WG D – Reference Frames, Timing and Applications**

*Co-chairs: Ruth NEILAN, International GNSS Service (IGS), Zuheir ALTAMIMI International Association of Geodesy (IAG) and Mikael LILJE, International Federation of Surveyors (FIG)*

11:00 – 11:20 *Coffee Break*

13:00 – 14:00 *Lunch*

### 14:00 – 16:00 **WG B – Enhancement of performance of GNSS services (continues)**

### 14:00 – 16:00 **(in parallel) WG D – Reference Frames, Timing and Applications (continues)**

### 14:00 – 16:00 **Joint Session between the WG A, WG B and WG D**

16:00 – 16:20 *Coffee Break*

### 16:20 – 18:00 **Working Groups Parallel Sessions**

*Working groups to prepare conclusions and recommendations for the ICG consideration.*

**18:00** **City Tour followed by reception at Mayor's residence** (situated in the City Library building), Mariánské náměstí 1, Prague 1

## Thursday, 13 November 2014

### 09:00 – 11:00 **Working Groups Parallel Sessions**

*Working groups to prepare conclusions and recommendations for the ICG consideration.*

11:00 – 11:20 *Coffee Break*

### 11:20 – 16:00 **Second Plenary Session of the ICG (Presentations by Working Groups)**

*Chair: Pieter DE SMET, European Commission*

*Attended by all. The primary purpose is for the Working Groups to present results of their meetings or any inter-sessional meetings held since the Eighth Meeting of the ICG. Presentations will include any draft recommendations to the ICG.*

### 11:20 – 12:05 **Presentation by WG A and Discussions**

### 12:05 – 12:50 **Presentation by WG B and Discussions**

12:50 – 14:00 *Lunch*

**14:00 – 14:45 Presentation by WG C and Discussions**

**14:45 – 15:30 Presentation by WG D and Discussions**

**15:30 – 16:00 Report on the meeting of the ICG Members, Associated Members and Observers (as needed)**

16:00 – 16:20 *Coffee Break*

**16:20 – 18:00 Second Providers' Forum Meeting**

*Co-chairs: Pieter DE SMET, European Commission and Xiancheng DING, China*

*Attended by only the Providers. The primary purpose is to discuss any draft recommendations to the ICG from the working groups and to develop response or suggest amendments to the draft recommendations.*

**16:20 – 18:00 (in parallel) Meeting of Associate Members, Observers and invited observers (as needed)**

*The purpose is to discuss issues of common concern that have emerged during earlier sessions.*

**18:00 Adjourn**

## Friday, 14 November 2014

**09:00 – 13:00 Third Plenary Session of the ICG**

*Chair: Pieter DE SMET, European Commission*

*Attended by all. The primary purpose is to consider final recommendations as considered by the Providers' Forum. This session will also consider other ICG-related issues.*

09:00 – 10:00 Consideration of proposed ICG recommendations (as needed)

Vision Statement for the ICG

Membership of the ICG: The request for Observer status of the Asia-Pacific Space Cooperation Organization (APSCO)

10:00 – 11:00 Review and approval of meeting conclusions (joint statement, press release, etc.)

11:00 – 11:20 *Coffee Break*

11:20 Other matters

- **United States of America:** Announcement for the Tenth Meeting of the ICG in 2015

- **Expression of Interest** to host the ICG meetings in 2016 and 2017

12:20 **Closing Statements**

13:00 **Adjourn**