



International Committee on  
Global Navigation Satellite Systems

## **AGENDA**

### **Eighth Meeting of the International Committee on Global Navigation Satellite Systems and Eleventh Meeting of the Providers' Forum**

**Hosted by the Emirates Institution for Advanced Science and Technology,  
Government of Dubai**

**Dubai, United Arab Emirates**

**9 – 14 November 2013**

**Saturday, 9 November 2013**

**Venue:** *The Address Dubai Mall Hotel*

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

**13:00 – 18:00**     **Providers' Forum Meeting**

*Co-chairs: Mr. Xiancheng DING, Senior Advisor of China Satellite Navigation Office, China and Mr. Kenneth HODGKINS, Department of State, United States of America*

*Attended by only the Providers. The primary purpose is to discuss the agenda and meeting procedures for ICG-8 and the Eleventh Meeting of Providers' Forum, draft recommendations to the ICG from the working groups and to develop response or suggest amendments to the draft recommendations, and address any other matters as required. Compose a temporary drafting group on the report of the Providers' Forum Meeting.*

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

*Co-chairs: Mr. Xiancheng DING, China Satellite Navigation Office, China and Mr. Kenneth HODGKINS, Department of State, United States of America*

*Attended by only the Providers and the co-chairs of the Working Group. The primary purpose is to identify issues for discussion in the working groups.*

**17:00 – 18:00**     **Providers' Forum Meeting (continues as needed)**

**10 – 14 November 2013**

**ICG PLENARY SESSIONS**

**Sunday, 10 November 2013**

**Venue:** *The Address Dubai Mall Hotel (Diamond hall)*

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

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

*Chair: Mr. Omran Anwar SHARAF, Emirates Institution for Advanced Science and Technology, United Arab Emirates*

*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*

<b>09:00</b>	<b>Welcome/Opening Remarks</b>
	National Anthem and EIAST Video
	H.E. Mohamed Ahmad AIQEMZI, Chairman, <i>Telecommunications Regulatory Authority (TRA), United Arab Emirates</i>
	H.E. Hamad Obaid ALMANSOURI, Chairman, <i>Emirates Institution for Advanced Science and Technology (EIAST), United Arab Emirates</i>
	Ms. Sharafat GADIMOVA, <i>ICG Executive Secretariat, United Nations Office at Vienna</i>
<b>09:30</b>	Mr. Omran Anwar SHARAF, <i>Emirates Institution for Advanced Science and Technology (EIAST), United Arab Emirates</i>
	<b>Adoption of Agenda</b>
<b>09:35</b>	<b>Providers System and Service Updates</b>
09:35	<b>United States of America:</b> United States Space-Based Positioning, Navigation and Timing Policy and Programme Update, <i>Mr. Harold MARTIN, National Coordination Office for Space Based Position Navigation and Timing</i>
	ICG: Achieving GNSS Interoperability and Robustness, <i>Mr. Badri YOUNES, National Aeronautics and Space Administration</i>
10:05	<b>Russian Federation:</b> GLONASS Policy, Status and Modernization, <i>Mr. Denis LYSKOV, Russian Federal Space Agency</i>
10:35	<b>European Union:</b> The European Satellite Navigation System (GALILEO) and the European Geostationary Navigation Overlay Service (EGNOS), <i>Mr. Pieter De SMET, European Commission</i>
11:05	<b>China:</b> Development of BeiDou Satellite Navigation System, <i>Mr. Chengqi RAN, China Satellite Navigation Office</i>
11:35 – 11:55	<i>Coffee Break</i>
11:55	<b>India:</b> The Indian Regional Navigation Satellite System (IRNSS) and the GPS-aided GEO-Augmented Navigation System (GAGAN), <i>Mr. S. SAYEENATHAN, Indian Space Research Organization</i>
12:25	<b>Japan:</b> The Quasi-Zenith Satellite System (QZSS), <i>Mr. Daisuke KAWASAKI, Office of National Space Policy, Cabinet Office</i>
12:55 – 14:00	<i>Group photo/Lunch</i>
<b>14:00</b>	<b>Presentations by Members, Associate Members and Observers on Matters of Interest to ICG</b>
14:00	Technical Seminar on Reference Frame in practice, <i>Mr. Mikael LILJE,</i>

*International Federation of Surveyors*

- 14:15 Italy and Satellite Navigation, *Mr. Mario CAPORALE, Italian Space Agency, Italy*
- 14:30 An update on the International Terrestrial Reference Frame, *Mr. Zuheir ALTAMIMI, International Earth Rotation and Reference Systems Service*
- 14:45 IOAG Participation in the ICG, *Mr. Michael SCHMIDT, Interagency Operations Advisory Group*
- 15:00 The report on the outcome of the 10<sup>th</sup> RES-609 meeting, *Mr. Attila MATAS, International Telecommunication Union*
- 15:15 FAI airport reliance on GNSS, *Mr. Bernald SMITH, The Fédération Aéronautique Internationale*
- 15:30 Impact of a possible redefinition of Coordinated Universal Time in GNSS interoperability, *Mr. Wlodzimierz LEWANDOWSKI, International Bureau of Weights and Measures (BIPM)*
- Broadcast UTC(SU) by GLONASS, *A. Druzhin, A. Tyulyakov and A. Pokhaznikov, The Russian Institute of Radionavigation and Time, Russian Federation*
- 15:40 Rapid UTC: a step forward for enhancing GNSS system times, *Mrs Felicitas ARIAS, International Bureau of Weights and Measures (BIPM)*
- 15:50 GNSS activities in Canada, *Ms. Jina MACEACHERN, Federal GNSS Coordination Office Spectrum, Canada*
- 16:00 UN Global Geospatial Information Management, *Ms. Ruth NEILAN, United States of America*
- 16:10 – 16:30 *Coffee Break*
- 16:30 – 18:00 Applications and Experts Seminar**
- Chair: Mr. Omran Anwar SHARAF, Emirates Institution for Advanced Science and Technology (EIAST), United Arab Emirates*
- 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.*
- 16:30 Experience of GLONASS Technologies Utilization in Various Fields of Russia's Economy, *Ms. Anna DOROFEEVA, JSC "Navigation-Information Systems", Russian Federation*
- 16:45 Galileo IOV Position Results, *Mr. Jörg HAHN, European Space Agency*
- 17:00 PNT Assurance Standards for GNSS Receivers Used in Critical Applications, *Mr. Brent DISSELKOEN, Rockwell Collins, United States of America*

- 17:15 Galileo and EGNOS Applications, *Mr. Pieter De SMET, European Commission*
- 17:30 BADEC Progress and BeiDou/GNSS Application, *Ms. Xian HUANG, China Satellite Navigation Office, China*
- 17:45 BeiDou Application on Precision Agriculture, *Mr. Haizhong XIE, Beidou Navigation Science and Technology Co.Ltd., China*
- 18:00 Adjourn**
- 18:30 – 20:30 Welcome Dinner**

### Monday, 11 November 2013

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

**09:00 – 11:00 Second Plenary Session of the ICG (meeting of the Providers with the ICG Members, Associate Members, Observers and invited observers)**

*Co-Chairs: Mr. Omran Anwar SHARAF, Emirates Institution for Advanced Science and Technology (EIAST), United Arab Emirates, Mr. Xiancheng DING, Senior Advisor of China Satellite Navigation Office, China, and Mr. Kenneth HODGKINS, Department of State, United States of America*

*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.*

*11:00 – 11:20 Coffee Break*

### Working Groups Meetings (Parallel Sessions)

**11:20 – 13:00 WG A – Compatibility and Interoperability**

*Co-chairs: Mr. David TURNER, Department of State, United States of America and Mr. Sergey REVNIVYKH, Russian Space Systems JSC, Russian Federation*

**11:20 – 13:00 (in parallel) WG D – Reference Frames, Timing and Applications**

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

*13:00 – 14:00 Lunch*

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

**14:00 – 18:00 (in parallel) WG D – Reference Frames, Timing and Applications (continues)**

*16:00 – 16:20 Coffee Break*

**18:00**            **Adjourn**

**Tuesday, 12 November 2013**

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

**09:00**    **Working Groups Meetings  
(Parallel Sessions)**

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

*Co-chairs: Mr. Sayeenathan (an alternative of Mr. A.S. GANESHAN), Indian Space Research Organization, India and Mr. Jörg HAHN (a temporary alternative of Mr. Stefan WALLNER), European Space Agency*

**09:00 – 13:00**    **(in parallel) WG C – Information dissemination and capacity building**

*Co-chairs: Ms. Sharafat GADIMOVA, Office for Outer Space Affairs and Ms. Sarah Yousef AMIRI, Emirates Institution for Advanced Science and Technology, United Arab Emirates*

*11:00 – 11:20*    *Coffee Break*

*13:00 – 14:00*    *Lunch*

**14:00 – 15:40**    **WG B – Enhancement of performance of GNSS services (continues)**

**14:00 – 15:40**    **(in parallel) WG C – Information dissemination and capacity building (continues)**

*15:40 – 16:00*    *Coffee Break*

**16:30**    **Technical Tour followed by a Discover Dubai Tour**

**Wednesday, 13 November 2013**

**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**    **Third Plenary Session of the ICG**

*Chair: Mr. Omran Anwar SHARAF, Emirates Institution for Advanced Science and Technology (EIAST), United Arab Emirates*

***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 Seventh 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**    **Providers' Forum Meeting (as needed)**

*Co-chairs: Mr. Xiancheng DING, Senior Advisor of China Satellite Navigation Office, China and Mr. Kenneth HODGKINS, Department of State, United States of America*

*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**

#### **Thursday, 14 November 2013**

- 09:00 – 13:00**    **Fourth Plenary Session of the ICG**

*Chair: Mr. Omran Anwar SHARAF, Emirates Institution for Advanced Science and Technology (EIAST), United Arab Emirates*

*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)**

- 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:** *For planning purposes, the ICG member countries/organizations are invited to submit their expression of interest to host the ICG meetings in 2015*

*and 2016*

- **European Union:** *Announcement for the Ninth Meeting of the ICG (Prague, Czech Republic, 2014)*

**12:20**      **Closing Statements**

**13:00**      **Adjourn**