

**United Nations/United Arab Emirates/United States of America Workshop on  
the Applications of Global Navigation Satellite Systems**

**Dubai, 16 – 20 January 2011**

**DRAFT PROGRAMME**

**(as of 20 December 2010)**

**Day 1, 16 January 2011**

08:00 Registration of Participants

09:30 *Delegates and guests to be seated in the Higher Colleagues of Technology Auditorium*

**10:00 Opening and Welcome Remarks, and Key Note Addresses**

- H.H SHEIKH HAMDAN BIN MOHAMED, *United Arab Emirates*
- H.H SHEIKH NAHAYAN BIN MUBARAK AL NAHAYAN, *United Arab Emirates*
- Telecommunication Regulatory Authority Chairman, *United Arab Emirates*
- Director General, Emirates Institution for Advanced Science and Technology, *United Arab Emirates*
- United Nations Office for Outer Space Affairs, *Austria*
- Mr. Jeffrey AUERBACH, Department of State, *United States of America*

10:50 *Group Photo*

11:00 *Coffee Break*

**11:30 Key Note Presentations**

International Committee on Global Navigation Satellite Systems, *Ms. Sharafat GADIMOVA, United Nations Office for Outer Space Affairs*

Establishing Space Policy, *Mr. Mohamed Ahmed TARABZOUNI, Saudi Arabia*

**12:00 Presentation Session 1: Trends in satellite-based navigation systems**

*Chairperson:*

*Rapporteur:*

- GPS modernization: GPS IIIA – On the road to the future, *Mr. Michael SHAW, United States of America*
- GLONASS status and update, *tbc., Russian Federation*
- Overview of the GALILEO Programme, *Mr. Ramon Alexander da SILVA CURIEL, United Kingdom*

13:00 *Lunch Break*

**14:00 Presentation Session 2: GNSS services and reference frames**

*Chairperson:*

*Rapporteur:*

- Continuous operating GNSS network for Saudi Arabia, *Mr. Nasr ALSAHHAF, Saudi Arabia*
- GNSS geodetic applications in Algeria, *Mr. Salem KAHLOUCHE, Algeria*
- Indonesian permanent GNSS stations network: the current status, *Mr. Cecep SUBARYA, Indonesia*
- GNSS reference station system LatPos in Latvia: regional cooperation with Lithuania, *Mr. Janis ZVIRGZDS, Latvia*
- Geodetic Infrastructure for GNSS positioning services, *Mr. Vasile CHIRIAC, Moldova*
- Pakistan satellite based augmentation system (PakSBAS), *Mr. Ajmal MUHAMMAD, Pakistan*

16:00 *Coffee Break*

**16:30 – Discussion Session 1: Using and implementation of GNSS technologies**  
**17:30**

- Issues and concerns, requirements of implementing, possibilities of success, mechanisms and resources of implementing

**18:00 Welcoming Reception**

**Day 2, 17 January 2011**

**09:00 Presentation Session 3: Initiatives/experiences in GNSS user applications**

*Chairperson:*

*Rapporteur:*

- GNSS augmentation and applications, *Mr. Jeffrey AUERBACH, United States of America*
- GLONASS applications, *tbc., Russian Federation*
- Implementation of EGNOS-based LPV approaches in Europe, *Mr. Luis CHOCANO, Spain*
- High-end GNSS based application used for the German railway clearance measuring train, *Mr. Ivo MILEV, Germany*
- *tbc., United Arab Emirates*
- Developing GNSS applications in Morocco: projects, research, training and action plan, *Mr. Mustafa AMGHAR, Morocco*

11:00 *Coffee Break*

**11:30 Presentation Session 4: International/Regional Experiences of the use and implementation of GNSS technologies: Case studies and practical cooperation models**

*Chairperson:*

*Rapporteur:*

- Design and realization of delay mapping receiver based on GPS for sea surface wind

measurement, *Mr. Dongkai YANG, China*

- *tbc., United Arab Emirates*

- Comparison between remote sensing and GPS measurements for earthquake ground deformation monitoring, *Ms. Ferdaous CHAABANE, Tunisia*

- Improvement of the ellipsoid height for the maps of Uzbekistan based on GPS data, *Mr. Erkin MIRMAKHMUDOV, Uzbekistan*

13:00 *Lunch Break*

**14:30 Presentation Session 5: Education and training on GNSS**

*Chairperson:*

*Rapporteur:*

- UN-affiliated Regional Centres for Space Science and Technology Education, *Ms. Antonella BINI, United Nations Office for Outer Space Affairs*

- An initiative for developing a training structure on GNSS and geomatics at national and regional level, *Mr. Alexandru BADEA, Romania*

- GNSS education and training programme in Thailand, *Ms. Pirada TECHAVIJIT, Thailand*

15:30 *Coffee Break*

**16:00 Discussion Session 2: Developing Partnerships and Networks**

**Discussion Panel:**

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Discuss plans, framework for a mechanism of regional cooperation; follow-up projects and initiatives.

*Discussion paper:*

18:00 *Adjourn*

**Day 3, 18 January 2011**

**09:00 Presentation Session 6: GNSS applications and technology development**

*Chairperson:*

*Rapporteur:*

- GNSS and its application in the context of Bangladesh, *Mr. Mozammel SARKER, Bangladesh*

- Monitoring major landslides using GPS: case study Hammana region, Lebanon, *Mr. Chadi ABDALLAH, Lebanon*

- GPS measurements of current crustal movements along the Gulf of Suez, Egypt, *Ms. Nadia ABO-ALI, Egypt*

- Satellite-based navigation systems and their application in Kyrgyz Republic, *Mr. Azamat DYIKANBAEV, Kyrgyz Republic*

- Onboard orbit predictor and altitude control hardware for small satellite missions, *Mr. Sanjay NEKKANTI, Germany*

- Planned differential GPS system at Yangon International airport, *Mr. Thet LWIN, Myanmar*

11:00 **Coffee Break**

**11:30 Presentation Session 7: International Space Weather Initiative**

*Chairperson:*

*Rapporteur:*

- Monitoring solar-terrestrial interaction at the United Nations Office at Vienna, *Ms. Sharafat Gadimova, United Nations Office for Outer Space Affairs*
- Study of a geomagnetic storm effect on the ionospheric scintillation and total electron content (TEC) over the SCINDA station in Abidjan, *Mr. Kouadio OBROU, Cote d'Ivoire*
- Space weather effects on GNSS performance and operation: a fundamental component of GNSS curriculum, *Mr. Renato FILJAR, Croatia*

13:00 *Lunch Break*

**14:30 – Technical Visit/City Tour**  
**17:00**

**Day 4, 19 January 2011**

**09:00 Working Groups Sessions**

**Working Group 1: Capacity Building and Institutional Strengthening**

**Working Group 2: Geodetic Reference Network**

**Working Group 3: Specific global navigation satellite systems applications**

11:00 *Coffee Break*

**11:30 Working Groups Sessions (continues)**

13:00 *Lunch Break*

**14:30 Working Groups Sessions (continues)**

15:30 *Coffee Break*

**16:00 Discussion Session 3: Round table to finalize the recommendations/observations**

18:00 *Adjourn*

**Day 5, 20 January 2011**

**09:00 Plenary Closing Session**

- Summary reports of presentation sessions
- Summary report of discussion sessions: presentation of proposals and recommendations consolidated at the discussion sessions

**11:00 Coffee Break**

11:30

**Closing remarks**

- Concluding Remarks, *United Nations Office for Outer Space Affairs*
- Concluding Remarks, *United Arab Emirates*

12:00

*Adjourn*