

AGENDA

Fourteenth Meeting of the International Committee on Global Navigation Satellite Systems

Bangalore, India

8 – 13 December 2019

Venue: ITC Gardenia Hotel

Sunday, 8 December 2019	
Venue: ITC Gardenia Hotel: 1, Residency Rd, Ashok Nagar, Bengaluru, Karnataka 560025	
11:00 – 14:00	On-site Registration
13:00 – 14:00	Lunch Break
Twenty-third Meeting of the Providers' Forum	
14:00 – 18:00	First Providers' Forum Meeting
	Co-Chairs: R. RAGHU, India and Xiaochun LU, China
16:20 – 17:20	Meeting with the Working Groups Co-Chairs
17:20 – 18:00	Providers' Forum Meeting (to be continued as needed)

9 – 13 December 2019

ICG PLENARY SESSIONS

Monday, 9 December 2019	
08:30	On-site Registration
09:00 - 10:30	Inaugural Session
09:00 – 09:05	Invocation
09:05 – 09:10	Welcome address Mr. Nilesh M. DESAI, Associate Director, SAC, Chairman of the Organizing Committee, ICG-14
09:10 – 09:15	Lamp Lighting Ceremony
09:15 – 09:25	Keynote address Dr. K. SIVAN, Chairman, ISRO & Secretary, DOS, Government of India
09:25 – 09:30	Opening Address Mr. P. KUNHIKRISHNAN, Distinguished Scientist & Director, USRC
09:30 - 09:35	Opening Address Mr. R. UMAMAHESWARAN, Scientific Secretary, ISRO
09:35 – 09:40	Opening Address Mr. D. K. DAS, Director, SAC
09:40 – 09:45	Opening Address Ms. Sharafat GADIMOVA, United Nations Office for Outer Space Affairs

09:45 – 09:50	Vote of thanks Mr. R. RAGHU, Director, SATNAV PO, ISRO HQ
09:50 – 09:55	National Anthem
10:00 – 10:05	Inauguration of Industry exhibition
10:15 – 10:30	Group Photo Session
10:30 – 10:50	Coffee/Tea Break
10:50 – 18:00	First Plenary Session of ICG
	Chair: Nilesh M. DESAI, India
	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
10:50 – 11:00	Adoption of Agenda
11:00 – 13:00	Providers System and Service Updates
11:00	Navigation with Indian Constellation (NavIC) and GPS Aided Geo- Augmented navigation System (GAGAN) Status, <i>R. RAMASUBRAMANIAN</i> , <i>India</i>
11:20	Global Positioning System (GPS) Program and Policy Update, Harold MARTIN, U.S. National Coordination Office for Space Based PNT, United States
	Purpose of US PNTAB: Assuring PNT for All and Exploiting GNSS for Future Applications, <i>Bradford PARKINSON</i> , <i>Stanford University</i> , <i>United States</i>
11:40	Global Navigation Satellite System (GLONASS) Status, <i>Ivan REVNIVYKH</i> , <i>Roscosmos, Russian Federation</i>
12:00	Status Update on the European Satellite Navigation System (GALILEO), Dominic HAYES, European Commission
12:20	Update on the BeiDou Satellite Navigation System, Peng JIA, China Satellite Navigation Office (CSNO), China
12:40	Status Update on the Quasi-Zenith Satellite System (QZSS), Masaharu KUGI, National Space Policy Secretariat, Cabinet Office, Japan
13:00 – 14:00	Lunch Break
13.00 14.00	Euren Break

14:00 – 16:00	Presentations by Members, Associate Members, Observers and Invited Observers on Matters of Interest to ICG
14:00	The Australian Satellite-based Augmentation System (SBAS) Program, John DAWSON, Australia
14:15	The PNT Board focus and its activities, Brad PARKINSON, United States
14:30	PULCHRON: A live pulsar time scale demonstration, E. Garbin, R. Plitz (GMV), S. Binda, Rafael Lucas RODRIGUEZ, and Joerg HAHN, European Space Agency
14:45	GNSS science activities at the European Space Agency, <i>Javier VENTURA-TRAVESSET</i> , <i>European Space Agency</i>
15:00	GNSS and UTC: a mutual benefit, <i>Patrizia TAVELLA</i> , <i>International Bureau of Weights and Measures</i>
15:15	CGSIC activities, Rick HAMILTON, Civil GPS Service Interface Committee
15:30	Enhancements in upcoming NavIC atellites, Parimal MAJITHIYA, India
15:45	Status of KPS Plans - Korea Positioning System, <i>Taegyu KIM, Ministry of Science and ICT, Korea</i>
16:00 – 16:20	Coffee/Tea Break
16:20 – 18:20	Applications and Experts Seminar: GNSS in Societal and Developmental Applications
	Chair: Khagindra K. SOOD and Atul P. SHUKLA, India
	Attended by all. The primary purpose is for GNSS experts to offer their views on GNSS today and vision for the future. The audience will have an opportunity to ask the panel members questions.
16:20	NavIC and MSS based Messaging and Surveillance Applications, G. J. DOSHI, Indian Space Research Organization, India
16:35	BDS/GNSS boosts the informatization and intelligence of Chinese society, <i>Xiaofei JIA, China</i>
16:50	GAGAN and NavIC for Enhancing Safety in Public Transport Systems, CHANDRAPRAKASH, Indian Space Research Organization, India
17:05	S-Band Pseudolite System Configuration, Dr. Ashish K. SHUKLA, Indian Space Research Organization, India
17:20	NavIC based Timing Applications in India, Kalpseh BORSADIYA, Indian Space Research Organization, India

17:35	Vehicle Location Trackers – Certification and Deployment, <i>P. SHINKER</i> , <i>ARAI</i> , <i>India</i>	
17:50	European GNSS supporting sustainable development, <i>Pieter DE SMET</i> , <i>European Commission</i>	
18:05	Environment Monitoring Aidd by NavIC, Nishkam JAIN and Abha CHHABRA, Indian Space Research Organization, India	
18:20	NavIC in Mobile Phones, Atul SHUKLA, Indian Space Research Organization, India	
18:35	Development and Challenges of BDS Product: Testing and Certification Service, <i>Tao HE, JiangSu BDS Product Service Centre, China</i>	
18:55 – 19:00	Break (Preparations for Cultural Program)	
19:00 – 19:45	Indian Traditional Cultural Program	
19:45 – 22:00	Welcome Banquet	
Tuesday, 10 Dec	Tuesday, 10 December 2019	
08:00 - 18:00	On-site Registration	
09:00 - 18:00	Working Groups Meetings (Parallel Sessions)	
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11:20 – 13:00	Working Groups Meetings – Parallel Sessions (continued)
13:00 – 14:00	Lunch Break
14:00 – 16:00	Working Groups Meetings – Parallel Sessions (continued)
16:00 – 16:20	Coffee/Tea Break
16:20 – 18:00	Working Groups Meetings – Parallel Sessions (continued)
18:00	Adjourn
Wednesday, 11 December 2019	
08:00 - 13:00	On-site Registration
09:00 - 11:00	Working Groups Meetings – Parallel Sessions (continued)
11:00 – 11:20	Coffee/Tea Break
11:20 – 13:00	Working Groups Meetings – Parallel Sessions (continued)
13:00 – 14:00	Lunch Break
14:00 – 18:00	Technical Tour: Visit to "Karnataka Chitrakala Parishath"
Thursday, 12 December 2019	
09:00 - 11:00	Working Groups Parallel Sessions
	Working groups to prepare conclusions and recommendations for the ICG consideration.
11:00 – 11:30	Coffee/Tea Break
11:30 – 15:30	Second Plenary Session of ICG (Presentations by Working Groups)
	Chair: R RAMASUBRAMANIAN, India
	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 Tenth Meeting of the ICG. Presentations will include any draft recommendations to the ICG.
11:30 – 12:15	Presentation by WG S and Discussions
12:15 – 13:00	Presentation by WG B and Discussions
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13:00 – 14:00	Lunch Break

14:45 – 15:30	Presentation by WG D and Discussions
15:30 – 16:00	Coffee/Tea Break
16:00 – 18:00	Second Session of the Providers' Forum
	Co-Chairs: R. RAGHU, India and Xiaochun LU, 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.
	(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, 13 Dece	mber 2019
09:00	Third Plenary Session of ICG
	Chair: Nilesh M. DESAI, India
	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	Report of the co-chairs of the 23 rd meeting of the Providers' Forum;
	- Consideration of proposed ICG recommendations (as needed)
10:00 – 10:30	Membership of ICG: The request for Member status of New Zealand
	- Update on SBAS programme, Graeme BLICK, New Zealand
10:30 – 11:00	Review and approval of meeting conclusions
	- Joint Statement
11:00 – 11:20	Coffee/Tea Break
11:20 – 12:00	Other matters
	UNOOSA: Announcement for the 15 th Meeting of the ICG in 2020
	EXPRESSION OF INTEREST to host the ICG meetings in 2021 (United Arab Emirates) and in 2022

12:00 – 12:30	Closing Statements
12:30	Adjourn