

Wednesday 11th	
	High Bay
09:30	<b>Welcome and Opening</b> Dietmar Pilz (Director of Technology, Eng. & Qualit / ESA) Massimo Crisci (Head of End to end Systems Division / ESA)
09:45	<b>General Introduction</b> CNES, DLR, ESA
10:00	<b>Panel Ensuring PVT on Earth and beyond</b> Moderated by Prof. Marco Luise (University of Pisa)  <i>Interference</i> Dr. Todd E. Humphreys (The University Of Texas At Austin)  <i>GNSS Spoofing in the Civil Aviation Sector</i> Dr. Ramsey Faragher (Royal Institute of Navigation)  <i>GNSS interference, view from space</i> Dr. John E Ward, Dr. Philip Jales (Spire Global)  <i>Protecting the Mass Market</i> Mr. Javier De Salas (Broadcom)
11:40	Coffe break
12:00	<b>ESA Shaping the Future of Navigation</b> Marco Falcone (Head of Future Navigation Department / ESA)
12:20	<b>Galileo and EGNOS, general updates</b> Jörg Hahn (Head of Galileo System Engineering Service / ESA)
12:40	<b>EGNSS Updates</b> Peter Buist (Head of Galileo Reference Center / EUSPA)
13:00	Lunch break (Main Restaurant)
	High Bay Auditorium
	<b>A1 - Signal Design and Processing</b> Dominik Dötterböck, UniBW Stefan Wallner, ESA
	<b>B1 - Advancements in GNSS Receivers</b> Mohamed Bochkati, UniBW Gerarda De Pasquale, ESA
14:00	<i>Revisiting Band-Limited DS/SS Signal Design for GNSS</i> (Prof. Marco Luise, University of Pisa)
14:20	<i>On the synthetic meta-signal multipath resistance: a Galileo and BeiDou analysis</i> (Mr. Giovanni Cappello, University of Naples "Parthenope")
14:40	Assessing positioning availability and performance when exploiting next-generation signals from Galileo (Mr. Freddy Albert Pinto Benel, GMV)
15:00	<i>Long Term Ephemeris (Data) for improved Time To First Fix (TTFF)</i> (Mr. Vicente Lucas Sabola, ESA)
15:20	Coffe break
	<b>A2 - Innovative Testing and Algorithms for Enhanced GNSS Receiver</b> Dr. Konovaltsev Andriy, DLR Edward Breeuwer, ESA
	<b>B2 - Real-Time Navigation and Quantum Potential</b> Dr. Garcia Crespillo Omar, DLR Dimitrios Vasileios Psychas, ESA
16:00	<i>Wideband multichannel system for testing advanced gnss receivers and new antenna technologies</i> (Miss Samah Chazbeck, National Instruments - NI (emerson))
16:20	<i>Continuous Integration and Deployment for Hardware-In-The-Loop embedded Global Navigation Satellite System Software Defined Receiver (GNSS-SDR) systems</i> (Mr. Xavier Guerrero-Pau, CTTC)
16:40	<i>Implementation and Evaluation of Multipath Mitigation Algorithms in GNSS PPK Using Smartphone Data in Urban Environments</i> (Mr. Andrea Maffia, Unige - University of Genova)
17:00	<i>Zero Baseline Evaluation of RTK Integrity Monitoring with Ambiguity Resolution</i> (Dr. Omar Garcia Crespillo, DLR)
18:00	Conference Dinner (Main Restaurant)

Thursday 12th		
	High Bay	Auditorium
	<b>A3 - LEO-PNT Performance and Interference Challenges</b> Prof. Todd Humphreys, The University of Texas at Austin Florin-Catalin Grec, ESA	<b>B3 - Science Applications</b> Prof. Sandra Verhagen, TU Delft Richard Swinden, ESA
09:00	<i>Multiple Access Interference Challenges in GNSS: The Role of Emerging LEO-PNT Constellations</i> (Mr. Florian Beck, DLR)	<i>DANGO - Danish National Galileo Overlay</i> (Ms. Magdalena Golofit, DTU Space, Technical University of Denmark)
09:20	<i>OTFS Achievable Ranging Performance in LEO Urban Areas</i> (Mr. Guillem Foreman-Campins, Tampere University / Universitat Autònoma De Barcelona)	<i>Implementation of a thrust model for an Extended Kalman Filter implemented in a GNSS receiver for geostationary orbit</i> (Ms. Anna Care', Thales Alenia Space Italia)
09:40	<i>Tracking Starlink signals using Luneburg Lens</i> (Dr. Noori Bni Lam, ESA)	<i>ESA Scout HydroGNSS: The use of Spaceborne GNSS Reflections to Monitor Hydrological Climate Variables</i> (Dr. Martin Unwin, SSTL)
10:00	<i>Evaluating ARAIM Techniques for GNSS and LEO-PNT Positioning: A Dedicated Test Bench Analysis</i> (Mr. Heiko Engwerda, Royal Netherlands Aerospace Centre)	<i>Complementing GNSS-R with LEO PNT signals: mission design impact and potential scientific benefits</i> (Eng. Juan Manuel Parro, ESA)
10:20	<i>Impact of Modelling Errors on LEO-PNT Performance: A Brief Numerical Investigation on Ambiguity-Fixed Positioning.</i> (Mr. Lotfi Massarweh, Delft University of Technology)	<i>Genesis - ESA's Mission for Reference Frame Improvement</i> (Ms. Sara Gidlund, ESA)
10:40	Coffe break	
	<b>A4 - LEO-PNT: Signal Processing Innovations</b> Filipe De Oliveira Salgueiro, ESA Marco Anghileri, ESA	<b>B4 - GNSS Security &amp; Signal Quality Monitoring</b> Osenberg Hendrik, DLR François-Xavier Marmet , CNES
11:20	<i>Adaptation of a GNSS open-source receiver for analysis of LEO-PNT scenarios</i> (Dr. Fran Fabra, Universitat, Autònoma De Barcelona)	<i>Enhancing GNSS Security with Open-Source OSNMA Integration in GNSS-SDR</i> (Dr. Carles Fernandez-Prades, CTTC)
11:40	<i>Coherent Tracking of Globalstar Signals Using Partially-Known Spreading Codes</i> (Mr. Orlando Peña, leec)	<i>Temporal analysis of high-rate GPS satellite differential code biases for signal monitoring and anomaly detection</i> (Dr. Gerardo Allende-Alba, German Aerospace Center)
12:00	<i>Deep Learning Coarse Doppler Estimation for LEO Signals of Opportunity</i> (Mr. Joaquin Gáñez Fernández, UAB - UNIR)	<i>Security Protection Levels for GNSS PVT Assurance with a 5G NTN LEO Satellite</i> (Miss Laura Crosara, University Of Padova)
12:20	<i>Optimization of OFDM-Signals for Ranging within Communication Bands</i> (Mr. Dominik Dötterböck, University Of The Bundeswehr Munich)	<i>Low-Cost Realtime Signal Quality Monitoring</i> (Prof. Götz Kappen, FH Münster)
12:40	<i>Versatile Signal Generator for LEO-PNT Navigation Satellite Payloads</i> (Ms. Maria Manzano Jurado, GMV)	<i>Low-cost SDR platforms for multi-frequency GNSS synchronous acquisition</i> (Dr. Rafael Terris-Gallego, Universitat Autònoma Barcelona (UAB))
13:00	Lunch break (Main Restaurant)	
	<b>A5 - LEO-PNT: In-Orbit Demonstrations and Advanced Signal Design</b> Thoelert Steffen, DLR Javier Miguez, ESA	<b>B5 - Innovations in Antenna Design for Resilient Positioning Solutions</b> Prof. Jose Lopez-Salcedo, UAB Prof Goetz Kappen, FH Münster
14:00	<i>In-orbit Demonstration of an FPGA-based GNSS Receiver on-board a LEO Satellite</i> (Mr. Carlos Davis Huerta, M3 Systems)	<i>Resilient GNSS Coarse Positioning based of Angle of Arrival Estimates</i> (Dr. Noori Bni Lam, ESA)
14:20	<i>In-orbit demonstration of Precise Point Positioning for real-time on-board high-accuracy orbit estimation of LEO satellites</i> (Mr. Bart Kevers, Fugro Innovation and Technology)	<i>A Galileo PRS compatible CRPA for an enhanced and more robust GNSS PNT solution</i> (Dr. Rubén Morales Ferré, Indra Espacio)
14:40	<i>Leveraging Signals of Opportunity for Precise LEO Orbit Determination in the Future Satellite Landscape</i> (Mr. Pedro Navarro, GMV)	<i>A 7-elements integrated GNSS multi-band antenna array with custom active stacked patches</i> (Dr. Fermín Mira Pérez, CTTC)
15:00	<i>LEO-PNT Signal-In-Space Design Options</i> (Jose Antonio Garcia Molina, ESA)	<i>GRATE Multi-Element Antenna for Accurate GNSS Measurements</i> (Mr. Jacobus A Kegel, Eindhoven University Of Technology)
15:20	Coffe break	
	<b>A6 - Applications in Orbit</b> Dr. Giorgi Gabriele, DLR Elizabeth Laier English, ESA	<b>B6 - Ensuring GNSS Resilience: Interference Detection and Mitigation Strategies</b> Muhammad Hameed, UniBW Gianluca Caparra, ESA
16:00	<i>Enhanced Autonomous Navigation with Combined X-ray Pulsar and Optical Sensor Integration</i> (Ms. Sui Chen, Politecnico Di Milano)	<i>Assessment of Interference Detection Techniques for Maritime Applications with Field Data from the Baltic and North Seas</i> (Mr. Thiago Azevedo de Vasconcelos, DLR)

16:20	<i>GNSS Autonomous On-Board Navigation with Inter-Satellite Links and Uplink Stations</i> (Mr. Marco Laurenti, Thales Alenia Space)	<i>Comparison of Different Vector Tracking Architectures in Challenging Urban Environments Using the TEX-CUP Data Set</i> (Mr. Christian Siebert, German Aerospace Centre)
16:40	<i>A Novel Method for Galileo E1 Acquisition in Low Earth Orbit</i> (Miss Abi Yetton, University Of Surrey / SSTL)	<i>The Impact of Radio Frequency Interference and Spoofing on GNSS Reliability at Baltic Sea</i> (Mr. Hakan Uyanik, DLR)
17:00	<i>Marconi Mid End GNSS Receiver: a new product in the European market</i> (Alberto Zin, Thales Alenia Space)	<i>Analysis of a Mass Market GNSS Receiver in the Presence of Different Jamming Signals transmitted During the Norwegian JammerTest 2023</i> (Miss Cécilia Kalmeijer, ESA)
17:20	<i>On-board Orbit Determination and Time Synchronization for Large Constellations of Satellites by means of a Distributed Extended Kalman Filter and Inter-Satellite-Link Scheduling Optimization Algorithms</i> (Mr. David Vázquez Enríquez, GMV)	<i>Combining SAGE and LMS for Blind Multipath Mitigation in GNSS Receivers</i> (Miss Lucía Pallarés-Rodríguez, Universitat Autònoma de Barcelona)

Friday 13th		
	High Bay	Auditorium
	<b>A7 - Navigating the Lunar Frontier</b> Thomas Junique, CNES Cosimo Stallo, ESA	<b>B7 - Innovations in Positioning with 5G/6G-Enabled Satellite Networks</b> Thomas Pany, UniBW Ivan Lapin, ESA
09:00	<i>Kalman filter based integrity for Lunar applications</i> (Mr. Heiko Engwerda, Royal Netherlands Aerospace Centre)	<i>Positioning-Enabled 5G and 6G Satellite Networks: Use Cases and Key Technologies</i> (Mr. Kai-Niklas Baasch, Leibniz University Hannover)
09:20	<i>NaviMoon – preparing the In-Orbit Demonstration of GNSS-based navigation in cis-lunar space</i> (Mr. Michele Scotti, Spacept)	<i>Opportunistic 5G NR Ranging in dense Urban Environments</i> (Dr. Jorge Querol, University Of Luxembourg)
09:40	<i>Development and assessment of a LUNAR PNT based on future LCNS</i> (Ms. Maria Manzano Jurado, GMV)	<i>Code Phase Estimation with Live 5G NR-NTN Ka-band Signal from LEO Satellite Using STARE</i> (Dr. Ivan Lapin, ESA)
10:00	<i>Enhancing ranging measurements through the provision of differential corrections for Lunar satellite navigation systems</i> (Dr. Stefano Garlaschi, Qascom srl)	<i>Evaluation of RIS-Enabled B5G/6G Indoor Positioning and Mapping using Ray Tracing Models</i> (Prof. Vassilis Paliouras, University of Patras)
10:20	<i>LunaNet Interoperability Standard – Consolidation of the Augmented Forward Signal Specification</i> (Mr. Floor Thomas Melman, ESA)	<i>USRP-Based Single Anchor Positioning: AoA with 5G Uplink Signals, and UWB Ranging</i> (Mr. Thodoris Spanos, LOCTIO P.C./University of Patras)
10:40	Coffe break	
	<b>A8 - Space Navigation and Space Situational Awareness</b> Noori Bni Lam, ESA Lionel Ries, ESA	<b>B8 - Autonomous Vehicles and Mobile Applications</b> Simona Circiu, ESA Nityaporn Sirikan, ESA
11:20	<i>Future Earth-Moon Navigation with Kalman Filter Based on Quantum Inertial Sensor Systems</i> (Ms. Arpetha Chikkamavathur Sreekantaiah, Leibniz Universität Hannover)	<i>Approaching GNSS Positioning Safety Analysis for Autonomous Vehicles via Rare Event Simulation</i> , Mr. Sebastian Ciuban, Delft University Of Technology)
11:40	<i>Preliminary geometry analysis for a solar system navigation constellation</i> (Mr. Felix Abel, ESA)	<i>High-Accuracy Galileo-based Autonomous Mobile Mapping System</i> (Dr. Ismael Colomina, Geonumerics)
12:00	<i>Enhancing Space Situational Awareness with Galileo Receivers' Modern Services: The SARGASSIA System</i> (Andrea Piccolo, European Commission's Joint Research Centre)	<i>A Flexible Multi-Frequency Software-Defined Open-Source Vector Tracking GNSS Receiver</i> (Mr. Miguel Angel Gomez Lopez, Instituto Nacional De Tecnica Aeroespacial)
12:20	<i>Relative positioning of astronauts around Rovers and Landers using UWB</i> (Dr. Ovidiu Ratiu; Control Data Systems SRL)	<i>PPP Performance Assessment for Galileo HAS Mobile Users in Different Environments</i> (Eng. Elena Galletti, ESA)
12:40	<b>Closing session &amp; Competition Award</b>	
13:30	Farewell Lunch	