

PALESTRA (APRESENTAÇÃO) NO INPE

DATA: 15:00 às 16:00 (*), 3^a. Feira, 14 de Maio de 2019

LOCAL: Sala 60 lugares 1^o andar com entrada pela Torre A do Prédio LIT
INPE São José dos Campos - (*) 45' de apresentação + 15' para perguntas

Overview of ESA/ESOC's Navigation Support Office and Related Activities

APRESENTADORES: Prof. Dr.-Ing. Werner G. Enderle, Head and Mr. Mark van Kints, Ops Eng. - Navigation Office for Ground Systems Engineering Department of ESOC ESA
Robert-Bosch-Str 5, 64293 Darmstadt, Germany

SUMÁRIO DA APRESENTAÇÃO (*SUMMARY OF PRESENTATION*)

The presentation of ESA's Navigation Support Office at the European Space Operations Center (ESOC) located in Darmstadt, Germany will provide a general overview of ESOC and also a more detailed description of the structure, expertise and related activities of the Navigation Support Office.

In particular, activities related to the precise orbit and clock determination (POD) of GNSS satellites in real-time and non-real-time will be addressed, as well as POD activities for satellites in low Earth orbit (LEO). A further subject of this presentation will be the description of the real-time global GNSS sensor station network of the navigation support office. In addition, the involvement of the navigation support office in international collaborations like UTC, IGS or ICG will be outlined and related activities, e.g. the development of an interoperable GNSS space service volume for the space user community or the ESOC contributions to UTC will be addressed.

The presentation will be given by Werner Enderle and Mark Van Kints and the total amount of time is expected to be 45 minutes.

BREVE CV DOS APRESENTADORES (*SHORT CV OF THE PRESENTERS*)

Prof. Dr.-Ing. Werner Enderle is the Head of the Navigation Support Office at ESA's European Space Operations Centre in Darmstadt, Germany. Previously, he worked at the European GNSS Authority (GSA) as the Head of System Evolutions, in charge of the Evolution activities for Galileo and EGNOS. He also worked for the European Commission in the Galileo Unit and was responsible for activities related to Galileo Geodetic and Time Reference, definition of the Galileo high accuracy service and also for the procurement of the Galileo Ground Control Segment (WP 3). Before these assignments, he was a Professor for Aerospace at the Queensland University of Technology and the Director for Navigation at the Australian Cooperative Research Centre for Satellite Systems. Dr. Enderle started his professional career at the DLR's German Space Operations Centre in the Space Flight Dynamics Department., where he was leading a variety of activities related to Orbit- and Attitude Determination based on GNSS. He was also the initiator for the development of a GPS receiver for sounding rockets and small satellites at DLR. In this context, he was also coordinating a cooperation between DLR and INPE (Dr. Roberto Lopes) in the area of space flight dynamics. Werner Enderle holds a doctoral degree in aerospace engineering from the Technical University of Berlin, Germany.

Mark van Kints is a GNSS operations engineer at ESA's European Space Operation Centre in Darmstadt, Germany. He is responsible for the coordination of operations, logistics, HW and SW infrastructure and contractual agreements for ESA's GNSS Observation Network (EGON). In parallel he provides technical support to the EGNOS Project Office (EPO) in Toulouse, regarding the operational aspect of site deployment activities for both the currently operational (V2) and future version (V3) of EGNOS. Previously he worked for GMV, mainly focusing on orbit and ionosphere algorithm development for the Computational Processing Facility (CPF) of EGNOS V2, as well as technical manager for FLARE, an EGNOS demonstration platform for Latin America. Mark van Kints holds a M.Sc. degree in Aerospace Engineering from Delft University of Technology.