

SCHEDULE

28 November 2019
ESTEC, Erasmus Auditorium
gr740.space

GR740 USER DAY

08:00 **Registration / Coffee**

08:30 **Welcome – Introduction to and history of the NGMP and GR740 development.**

Roland Weigand (speaker)
European Space Agency

08:45 **SCS3740 3U SpaceVPX Single Board Computer using GR740 Processor**

Robert Hillman (speaker)
Data Device Corporation (DDC)

09:10 **GR740 Development Status**

Magnus Hjorth (speaker)
Cobham Gaisler

09:40 **GENEVIS, a Vision-Based Navigation Solution Integrated on a Single LEON4 Core**

Paul DUTEIS, Roland BROCHARD (speaker)
Sylvain TIBERIO (speaker)
Airbus Defense & Space – Toulouse

10:05 **Thales Alenia Space in Italy experience with GR740**

Gianluca Aranci (speaker)
Thales Alenia Space – Italy,
Competence Center Electronics

10:30 Coffee Break 

11:00 **Extrac: an OpenMP-compatible performance monitoring tool for the GR740**

BSC: Eduardo Quiñones (speaker)
ADS: Franck Wartel (speaker)
BSC: Adrian Munera, Victor Gonzalez, Sara Royuela
Barcelona Supercomputing Centre,
Airbus Defense & Space – Toulouse

11:25 **CoRA-RDHC MIDDLEWARE: a software execution platform for CoRA-RDHC on-board computer**

Patricia Lopez Cueva (*) (speaker)
Maxime GUIMARD(*), Pedro Vallejo Muñoz(*),
Arne Samuelsson(+), Martin Åberg(+),
Anandhavel Sakhivel(+),
Antoine Certain (†), Jean-Luc Poupat(†),
Matthieu Couderc(†),
Jørgen Ilstad (‡)
(*) Thales Alenia Space,
(+) Cobham Gaisler,
(†) Airbus Defense and Space France,
(‡) European Space Agency, ESTEC, Netherlands

11:50 **GNSS Software Receiver**

Laura Gouveia (speaker)
Ambroise Bidaux-Sokolowsky, Sebastian Wildowicz,
Daniel Silveira
GMV – Poland

12:15 **Application of AIR as LEON4 hypervisor in Space Activities and Use Cases**

Laura Gouveia (speaker)
Daniel Silveira
GMV – Spain / Portugal

12:40 **GR740 Reference Design**

Thomas Badinand (speaker)
CG: Arne Samuelsson, Jan Andersson
RUAG Space, Cobham Gaisler (CG)

13:00 Lunch break 

14:00 **Visual Odometry on the GR740**

Daniel Townson (speaker)
SCISYS

14:25 **Next Generation Data Handling System OBC-SA/SPINAS**

Alexander Hrusovsky (speaker)
Tobias Hartmann
Airbus Defense & Space - Bremen

14:50 **Paravirtualization on LEON4/GR740**

Cristian Trohin (speaker)
Lucian Banu
ENEA AB Romania

15:15 **Bridging Open Source and Critical Space Applications**

Dr. Matthias Göbel, Sebastian Huber (speaker)
Embedded Brains

15:40 Coffee Break 

16:10 **State of the University of Vienna's flight operating system on the GR740**

Armin Luntzer (speaker)
Department of Astrophysics, University of Vienna

16:35 **XtatuM: A space qualified Hypervisor for LEON-based Computers**

Paco Gómez Molinero (speaker)
Javier Coronel Parada, Miguel Masmano Tello
fentISS

17:20 **Conclusion**

17:30 **End of Workshop**