

**Session Program**

**Oct 3 - 5, 2007**

**ESA Workshop on Avionics, Data, Control and  
Software Systems - ADCSS 2007**

**Next Generation Processor for On-Board  
Payload Data Processing Applications**

ESA/ESTEC, Newton Conference Center

## Thu, October 4

9:15 AM

### Next Generation Processor for On-Board Payload Data Processing Applications

**Session** | **Location:** ESA/ESTEC, Newton Conference Center

9:15 – 9:20 AM **Introduction**

**Speaker**

Mr Martin Suess

9:20 – 9:45 AM **Overview of Future Earth Observations Mission**

**Speaker**

P. Bensi

9:45 – 10:10 AM

### On-Board Payload Data Processing Requirements for Future CNES Missions

**Speaker**

E. Remeteau, et al.

10:10 – 10:35 AM **Evaluations of Next Generation DSP Solutions**

**Speaker**

O. Notebaert, et al.

10:35 – 10:50 AM **Coffee Break**

10:50 – 11:15 AM

### Overview by Thales Alenia Space fo High Power Processing Needs for Future Programs

**Speaker**

P. Leconte, et al.

11:15 – 11:40 AM

### TSC21020 Application Experience Aiding Next Generation Spaceborne DSP Selection

**Speaker**

M. Sust

11:40 AM – 12:05 PM **Review of Possible Implementation Solution**

**Speaker**

ML Eposti, et al.

12:05 – 1:00 PM **Round Table Discussion**

**Speaker**

Mr Martin Suess

1:00 – 1:35 PM **Lunch Break**

1:35 – 2:00 PM **HPDP - High Performance Data Processor**

**Speaker**

M. Syed

2:00 - 2:25 PM

**The AT697E LEON2-FT Device Integration in IPPM (Integrated Payload Data Processing Module)****Speaker**

E Waler, et al.

2:25 - 2:50 PM

**MDPA - Multi-DSP/micro Processor Architecture****Speaker**

T. Helfers, et al.

2:50 - 3:15 PM

**Leon Co-Processor for Payload Data Processing****Speaker**

C. Honvault

3:15 - 3:45 PM

**Round Table Discussion****Speaker**

Mr Martin Suess

3:45 - 4:00 PM

**Coffee Break**

4:00 - 4:25 PM

**An Example of High Processing Power Payload Computer: the GAIA Video Processing Unit****Speaker**

JF Soucaille, et al.

4:25 - 4:50 PM

**Use of Texas Instruments' DSP in Space Programs****Speaker**

G. Magistrati

4:50 - 5:15 PM

**TI Roadmap for Space DSP****Speaker**

I. Williger

5:15 - 5:40 PM

**Using Low Power COTS DSP: Assessment of Analog Devices Blackfin****Speaker**

E. Remeteau, et al.

5:40 - 6:10 PM

**Round Table Discussion****Speaker**

Mr Martin Suess

6:10 PM