



A D V A N C E I N V I T A T I O N

To the 7th

D/TEC-QCA Final Presentation Day 2005.

University of Jyväskylä, Jyväskylä, Finland

Wednesday May 25th, 2005 – Department of Physics, Starting 09:30.

Dear colleagues,

As in previous years we are pleased to invite you and your representatives to this round of presentations reporting on the results of radiation studies and tests recently performed under QCA contracts. This year's event has been combined with a RADECS thematic workshop on European SEE accelerators on May 26th 2005, and the RADEF inauguration on May 27th 2005. This year's special venue is the University of Jyväskylä, Jyväskylä, Finland. Participation is open and free of charge – but requires pre-registration – see attached form.

Tentative Programme:

09:30h Welcome and Overview (final agenda)

Reno Harboe Sørensen

09:40h Application-like Radiation Test of XTMR and FTMR Mitigation Techniques for Xilinx Virtex-II FPGA.

Final Presentation of ESTEC Contract No. 11407/95/NL/MV, CCN-5, COO-7.

Saab Ericsson Space, Sweden – Fredrik Stureson/ Stanley Mattsson

10:00h Co-60 TID Evaluation of SDRAMs from Elpida, EDS2508APTA 256 Mbit, from Samsung, K4S510432B 512Mbit and from Micron, MT48LC16M8A2 128Mbit, using Auto-refresh and Self-refresh Mode of Bias Operation.

Final Presentation of ESTEC Contract No. 13528/99/NL/MV, COO-12.

HIREX Engineering, France - Francois-Xavier Guerre/J.-F. Pascal

10:10h RADFET Read-out Systems for Ground Calibration and Biopan-4 Experiment.

Final Presentation of ESTEC Contract No. 10582/93, COO-47.

Tyndall National Institute, Ireland – Aleksandar Jaksic/Vladimir Ogourtsov

10:35h Heavy Ion Characterization of AC/HC-Logic Circuits at 2.5 V, 3.3 V and 5.0 V from STM and NS Using: 54AC/HC08, 54AC/HC157, 54AC/HC273, 54AC257, 54AC244, 54HC4040 & 54HC4053 types.

Final Presentation of ESTEC Contract No. 11407/95/NL/MV, CCN-5, COO-8/I.

Saab Ericsson Space, Sweden – Sture Larsson/Stanley Mattsson

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Agence spatiale européenne*

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10:55h Coffee Break

11:10h Random Telegraph Signals in CCDs and Active Pixel Sensors.

Interim Presentation of ESTEC Contract No. 14028/99/NL/MM, COO-6.

Sira Technology Ltd., UK – Gordon R. Hopkinson

11:25h Radiation Co-60 TID Evaluation of 16-Bit Analog-to-Digital Converters: Texas Instruments ADS8402, Analog Devices AD7677 and AD9260.

Final Presentation of ESTEC Contract No. 13528/99/NL/MV, COO-15.

HIREX Engineering, France - Francois-Xavier Guerre/J.-F. Pascal

11:35h Heavy Ion Effects on Low Voltage LVDS Line Driver/Receiver from NS.

Final Presentation of ESTEC Contract No. 11407/95/NL/MV, CCN-5, COO-8/III.

Saab Ericsson Space, Sweden – Stanley Mattsson/Sture Larsson

11:45h SEE and TID Acceptance Tests of the Radiation Test-Bed for High Capacity Memory Components.

Final Presentation of ESTEC Contract No. 11356/95/NL/FM, CCN-7.

IDA, Braunschweig, Germany – M. Brüggemann/H. Schmidt/H. Michalik

12:00h High-Energy Proton Damage Assessment of 90 nm node Multiple Gate Oxide Thickness Transistors.

GSTP/ESTEC Contract No. 14924/00/NL/ND

IMEC, Belgium – Eddy Simoen/M.-L. David/C. Claeys

12:30h Lunch Break

14:00h Heavy Ion Effects in UCC1806 and UC1825A Pulse Width Modulators.

Final Presentation of ESTEC Contract No. 11407/95/NL/MV, CCN-5, COO-8/II.

Saab Ericsson Space, Sweden – Sture Larsson/Stanley Mattsson

14:20h Laser Simulation of Single Event Effects in Pulse Width Modulators and Memories.

Final Presentation of ESTEC Contract No. 16916/02/NL/PA

MBDA UK Ltd, United Kingdom – Andrew Chugg

14:40h Construction Analysis of UCC1806 and UC1825A Pulse Width Modulators.

Final Presentation of ESTEC Contract No. 10582/93/WO-05/COO-20 and 21.

Tyndall National Institute, Ireland – Ted O'Shea/Richard FitzGerald

15:00h SEE Characterization of Parts for the ATV Project: UC1706 Dual Output Driver, OP400Y Operational Amplifier and M27C512 UV EPROM.

Final Presentation of ESTEC Contract No. 13528/99/NL/MV, COO-16.

HIREX Engineering, France – Francois-Xavier Guerre

15:20h Heavy Ion SEL Test for the RAL CDS/ADC CCD Video Processing ASIC MK-6.

TEC-QCA Support Activity to ESTEC Contract No. 18470/04/NL/VD

MSSL, UK and ESA/ESTEC, NL – P. D. Thomas/M. R. Hailey/RHS

15:30h Coffee Break

15:45h Radiation SEE Evaluation of High Capacity FLASH Memory Devices for SafeGuard Data Recorder.

Progress Presentation of ESTEC Contract No. 17442/03/NL/JA.

IDA, Braunschweig, Germany – M. Brüggemann/H. Schmidt/H. Michalik

16:00h Summary and Results of Enhanced Low Dose Rate Effects (ELDRS) Testing Performed at the ESTEC Co-60 Facility.

Internal ESTEC TEC-QCA Activity.

ESA/ESTEC, TEC-QCA, NL – Ali Mohammadzadeh/Bob Nickson

16:15h Summary and Results of Recent Proton Testing Carried out on COTS Components for the LHC.

Courtesy Presentation.

CERN, Switzerland – Federico Faccio/Thijs Wijnands

16:45h End of the Technical Programme

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19:00h Start of Social Programme – Dinner boat trip