## QCA Presentation Day 30/01/2001 - Agenda I.

**09:30h** Welcome and Overview - ***Reno Harboe Sørensen***

**09:40h** Radiation Evaluation of Commercial Off-The-Shelf (COTS) – Non-Volatile Memories (NVRAMs).

***HIREX Engineering, France - F.-X. Guerre/J.-F. Pascal***

**10:10h** Radiation Pre-Evaluation of FPGA. + LT1009/IS1009 Data

***Saab Ericsson Space, Sweden – F. Sturesson/S. Mattsson***

**10:40h** Coffee

**11:00h** Radiation Characterisation and Test Methodology Study of Optocoupler Devices for Space Applications.

***Astrium, France – Renaud Mangeret***

**12:00h** Study of Radiation Effects in Cryogenic Electronics and Advanced Semiconductor Materials

***IMEC, Belgium – Eddy Simoen***



## QCA Presentation Day 30/01/2001 - Agenda II.

**12:50h** Lunch Break

**14:00h** Radiation Evaluation of Commercial Off-The-Shelf (COTS) – Support IC's for Data Handling Applications.

***HIREX Engineering, France - F.-X. Guerre/J.-F. Pascal***

**14:40h** SEE Verification Test on LM139 and FRC150 for SSR Applications.

***Astrium, Germany – Wolfgang Schaeper/Ole G. Pedersen***

**14:55h** SEE Verification Test on UCC1801/1805/1806 and RH1078 using Test Conditions Simulating the Integral/Rosetta PS design.

***TERMA Elektronik, Denmark – ESA, Reno Harboe Sørensen***

**15:10h** Radiation Evaluation of Fast 4M-bit SRAMs for the COROT DPU – ESTEC Space Science.

***HIREX Engineering, France – ESA, Reno Harboe Sørensen***

## QCA Presentation Day 30/01/2001 - Agenda III.

**15:25h** Coffee

**15:45h** Utilisation of Pulsed Laser for SEE Testing.

I. Green Laser Testing - Calibration Aagainst Accelerator Results and SEE Study as a Function of Device Feature Size.

*Matra BAe Dynamics, UK – Rod Jones*

II. The Feasibility of Irradiating Devices Trough the BackSide.

*HIREX Engineering/LAAS, France – Jacques Collet/F.-X. Guerre*

III. Construction Analysis of Devices used – Extraction of Memory Cells.

*NMRC, Ireland – Ted O'Shea/Richard FitzGerald*



## QCA Presentation Day 30/01/2001 - Agenda IV.

**16:55h** Proton Irradiation Facility and OPTIS at PSI, 2000-2001.

*Paul Scherrer Institute, Switzerland – Wojtek Hajdas*

**17:10h** Heavy-ion Irradiation Facility at UCL, 2000-2001.

*University Catholique de Louvain, Belgium – Guy Berger*

**17:25h** QCA Year 2001 - Ongoing/New Radiation Activities.

*ESTEC/TOS- QCA – Ralf de Marino/Reno Harboe Sørensen*

**17:40h** End of the Technical Program

**19:00h** Start of Social Program – Chinees-Indisch Restaurant

**TONG AH**
De Grent 36, Noordwijk aan Zee

esa ESTEC - Radiation Effects and Analysis Techniques Section
Ref. : D/TOS-QCA-30/01/2001

## Final Reports/Transparencies - QCA Day 30/01 2001.

**https://escies.org/public/radiation/**

| Pr. No | Subject | Re-ports | Trans par. | Pr. No | Subject | Re-Ports | Trans par. |
|---|---|---|---|---|---|---|---|
| 01 | Agenda 30/01 | X | Y | 10 | UCC180x | X | Y |
| 02 | NVRAMs | 17 | Y | 11 | RH1078 | X | Y |
| 03 | FPGA | 4 | Y | 12 | 4Mbit SRAMs | 7 | Y |
| 04 | LT/IS-1009 | X | Y | 13 | Green Laser | X | Y |
| 05 | Optocouplers | 1 | Y | 14 | YAG Laser | X | Y |
| 06 | Cryogenic | 1 | Y | 15 | C.A. | X | Y |
| 07 | Support IC's | 21 | Y | 16 | PIF | X | Y |
| 08 | LM139 | 1 | Y | 17 | HIF | X | Y |
| 09 | FRC150 | 1 | Y | 18 | QCA 2001 | X | Y |

**13, 14 & 15: Interim presentations - Contract not completed.**

**X = Final Report - Not available  Y = available now/soon**

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