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1st WORKSHOP ON CVD DIAMOND APPLICATIONS

STOCKHOLM 19-20 SEPTEMBER 2003

Italian Culture Institute, Stockholm

Organizing committee

University of Torino

Alessandro Logiudice,
Claudio Manfredotti,
Ettore Vittone,
Paolo Olivero,
Chiara Paolini,

Italian Embassy in Stockholm

Roberto Galloni, Scientific Attaché
Luca Neri, Assistant

Program

Session I - Hydrogenated and oxidized diamond surface : theory and characterization

Friday morning

8:30 Registration

9:00 Welcome address

9:15 K. Larsson:

Effect of Surface Adsorbates on Electron Transfer Processes

9:55 C. E. Nebel:

Nanoelectronics on Hydrogen Terminated Diamond

10:35 J. Ristein:

Charge Carrier Diffusion Profiles in Diamond

11:15 Coffee break

11:30 C. Paolini:

Local Anodic Oxidation of hydrogenated diamond surfaces

12:00 C. Manfredotti:

Priming and photoconductivity in CVD diamond

- 12:30 E. Vittone:**
Diamond surface functionalization for neuronal cells stimulation

13:00 Lunch

Session II - CVD diamond devices : surface and bulk

Friday afternoon

- 14:30 E. Kohn:**
Recent Advances in the Characterization of the H-terminated Diamond Surface and Surface Channel Field Effect Transistors
- 15:10 R. Sussmann:**
The use of CVD diamond for high-power switching using electron beam excitation
- 15:50 J. Isberg:**
High voltage Schottky diodes in single crystal CVD diamond

16:30 Coffee break

- 16:45 P. Chow:**
High voltage diamond Schottky rectifiers
- 17:25 P. John:**
Surface Modification for Diamond Sensors

Session III - CVD diamond detectors and dosimeters

Saturday morning

- 8:30 P. Ascarelli :**
Conditions and testing of low energy X-ray radiation dose-rate response linearity of thin CVD diamond films
- 9:10 P. Bergonzo:**
Radiation detection devices made from synthetic diamond
- 9:50 M. Bruzzi:**
CVD diamond off-line dosimeters for radiotherapy applications
- 10:30 P. Rava:**
Multichamber PECVD-HWCVD systems for deposition of silicon and carbon thin films

11:00 Coffee break

- 11:15 S. Onori:**
Applications of CVD diamond in radiotherapy
- 12:55 E. Pace:**
Towards diamond UV imaging detectors
- 12:35 R. B. Jackman:**
Properties of CVD diamond for UV detector applications

Saturday evening

19:00 Social dinner at the Scientific Attaché residence