



6th International SemOI Conference

"Nanoscaled Semiconductor-on-Insulator Materials,
Sensors and Devices"

26-30 April, 2010, Kyiv, Ukraine



Conference Objectives

The goal of the Conference is to debate about the recent developments in nanometer down scaled Semiconductor-on-Insulator (SemOI) systems which are basis blocks for modern high-sensitive sensors in a wide range of applications such as telecommunications, radiation control, biomedical instrumentation, chemical analysis, etc. SemOI is foreseen as a key technology for the integration of high quality and resistant nanoscaled devices and integrated circuits which must operate in harsh environment.

The topics to be covered include:

- Semiconductor-on-Insulator material technology
- Nanoscale CMOS devices and circuits
- New SemOI materials and nanoscaled devices
- SemOI sensors and new SemOI systems
- Diagnostic techniques for nanoscale SemOI materials and devices
- Technology and economics

Keynote speakers

Prof. V.P.Bondarenko (BSUIR, Belarus); Prof. C.Colinge (California State Univ., USA); Prof. J.P.Colinge (Tyndall NI, Ireland); Prof. D.Flandre (UCL, Belgium); Prof. G.Gamble (Queen's Univ., Belfast, UK); Prof. F.Gamiz (Granada Univ., Spain); Prof. U.Goesele (MPI für Mikrostrukturphysik, Germany); Prof. S.Hall (Univ. of Liverpool, UK); Prof. S.Ingebrandt (Univ. Appl. Sci. Kaiserslautern, Germany); Dr. M.Lemme (Harvard Univ., USA); Prof. N.Lukyanchikova (ISP, Ukraine); Prof. Martino (Univ. of Sao Paulo, Brazil); Prof. A.A.Orlikovsky (IPT RAS, Russia); Dr. V.Popov (ISP RAS, Novosibirsk, Russia); Prof. J.P.Raskin (UCL, LLN, Belgium); Prof. S.Roy (Univ. of Glasgow, UK) Prof. U.Schwalke (Technische Universität Darmstadt, Germany)

Key dates

Deadline for Abstracts **15 January 2010**
 Notification to Authors **5 February 2010**
 Issue Preliminary Programme **15 February 2010**
 Deadline hotel reservations **15 March 2010**
 Workshop opens **26 April 2010**

FIRST ANNOUNCEMENT AND CALL FOR PAPERS



1st Ukrainian-French Seminar

"Semiconductor-On-Insulator materials,
devices and circuits: physics, technology and diagnostics"

26-30 April, 2010, Kyiv, Ukraine



Objectives of the Seminar

The objective of this seminar is to gather the leading experts of France and Ukraine in the field of technology, physics and diagnosis of Semiconductor-On-Insulator systems and SOI-based devices and circuits to joint their efforts in development of modern nanoscale devices, high-sensitive sensors, optoelectronic devices and micro-electromechanical systems.

The topics to be covered include the following:

- Semiconductor-on-Insulator material technology
- New SemOI materials and devices
- SemOI sensors and new SemOI systems
- Diagnostic techniques for nanoscale SemOI materials and devices

Keynote speakers

Prof. F.Balestra (IMEP-Grenoble-IMP Minattec, France); Prof. G.Ghibaudo (IMEP-LAHC, France); Prof. G.Grenet (Univ. of Lyon); Prof. S.Cristoloveanu (CNRS, IMEP, France); Dr. P.Dolffus (CNRS, Univ. of Paris, France); Prof. A.A.Druzhinin (Lviv Politechnica, Ukraine); Dr. E.Dubois (IEMN-ISEN, Univ. of Lille, France); Dr. A.I.Klimovskaya (ISP, Ukraine); Dr. I.T.Kogut (PNU, Ukraine); Dr. Y.N.Kozyrev (ISC, Ukraine); Dr. C.Mazure (SOITEC, France); Prof. A.N.Nazarov (ISP, Ukraine); Dr. M.Pala (CNRS, IMEP-LAHC, INP, France); Dr. T.Poiroux, CEA-LETI, France); Dr. T.Rudenko (ISP, Ukraine); Prof. F.F. Sizov (ISP, Ukraine); Prof. V. Skryshevskii (KNU, Ukraine)

Organized by

Francis Balestra
IMEP-LAHC,
Grenoble INP-Minattec,
3 Parvis Louis Néel, BP 257,
38016 Grenoble cedex 1,
FRANCE
Phone: +33 (0)4 56 52 95 10
FAX: +33 (0)4 56 52 95 01
E-mail:
balestra@minattec.grenoble-inp.fr

Alexei N. Nazarov
Institute of Semiconductor
Physics, National Academy of
Science of Ukraine,
Prospekt Nauki 45,
03028 Kyiv-28,
UKRAINE
Phone: 380(44) 2657022
FAX: 380(44) 2656177
E-mail: nazarov@lab15.kiev.ua

Organized by

Jean-Pierre Raskin
Université Catholique de
Louvain,
Electrical Engineering
Department, EMIC,
Place du Levant, 3,
B-1348 Louvain-la-Neuve,
BELGIUM
Phone: +32.10.47.23.09
FAX: +32.10.47.87.05
E-mail: jean-
pierre.raskin@uclouvain.be

and Alexei N. Nazarov
Inst. of Semicond. Phys.,
NAS of Ukraine,
Prospekt Nauki 45,
03028 Kyiv-28, UKRAINE
Phone: 380(44) 2657022
FAX: 380(44) 2656177
E-mail: nazarov@lab15.kiev.ua

International Organizing Committee

F. Balestra (IMEP, France)
J.P. Colinge (Tyndall NI,
Ireland)
F. Gamiz (Granaga Univ.,
Spain)
S. Hall (Univ. Liverpool, UK)
A.A. Orlikovsky (IPT, Russia)
V.S. Lysenko (ISP, Ukraine)

Paper submission

Prospective authors should prepare 2-page summary of their work, including illustrations, suitable for reproduction in the Workshop Proceedings and submit the electronic version of your abstract for review to organizers (yurigom@lab15.kiev.ua) by **January 15, 2010**. Instructions for abstract preparation: see on the next page.

Local Org. Committee: Yuri Gomeniuk

Inst. of Semicond. Phys., NASU, 45 Prospect
Nauky, 03028 Kyiv UKRAINE
Phone: +380(44)5257022
Fax: +380(44)5256177
E-mail: yurigom@lab15.kiev.ua

Preparation of Abstract

A.B. Author and *C.D. Coauthor

Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine

*Catholic University of Louvain, DICE, Louvain-la-Neuve, Belgium

This set of instructions is given in the style and format to be used by authors in preparing “camera-ready” abstracts. Please follow the instructions listed below. Abstract must be prepared in English.

Total length of Abstract

The total length of the abstract, including all text, graphs, tables, charts, drawing and pictures, is *two pages*.

Size

The abstract must be typed within the frame 16 x 25 cm²; the frame must not appear on the summary. Margins on the top, bottom, left and right are thus 2cm, 2cm, 3cm and 2cm, respectively. The title shall be bold, centered at the top of the page and followed by the name(s) of the author(s) and their affiliation. We recommend the use of 1.0 (single) line spacing. In these instructions we use the Times New Roman font. If you cannot produce an output in Times New Roman, choose a font on your system that is similar. The font size used in the abstract should be no smaller than 10 point. Tables, graphs and figures may be smaller if legible. References should be collected at the end of your paper.

Pictures

Half-tone copies of black and white photographs are preferable for reproduction; however, if this is not possible, please understand that the quality may be degraded.

Cover letter

Please submit the copy of your abstracts with a cover letter identifying the contact author, mailing address, telephone number, FAX number, and e-mail address (if available).

Notification

You will be notified by 5 February 2010 whether your paper is accepted for the Workshop.



Kyiv is the capital of the Ukraine with a population of about three million. It is located about 400 km north of the Black Sea and lies on both East and West banks of the River Dnipro which flows into the Black Sea.

The city's history can be traced back to the fifth century but its rich heritage principally dates from the eleventh century after the arrival of Christianity and construction of cathedrals and monasteries. Much rebuilding has taken place and today one can visit St Sophia's Cathedral (since 1990 a UNESCO World Heritage site), The Golden Gate (memorable from Mussorgsky's "Pictures of an Exhibition"), St Cyrils Church (twelfth century frescos), Kyiv-Pechersk Lavra (complex of buildings including The Gate Church of the Trinity and caves) and more recent buildings including St Volodymir's Cathedral (nineteenth century), St Andrew's Church (eighteenth century, Baroque) and The Mariinski Palace, built during the eighteenth century.

It is difficult to describe Kyiv in words. If you visit it, you will see for yourself how beautiful and exciting it is. We are convinced that it will not disappoint you, and you will be going back home full of new and unforgettable impressions.

The Workshop venue is a sanatorium, which is located in picturesque woodlands about 15 km of Kyiv city centre. The lecture theatre, meeting rooms, restaurant and “en-suite” accommodation plus a bar/coffee shop are all located in adjacent buildings within the complex. A large lake, which is used for outdoor swimming during the summer, is located within the grounds.