

Research Visits and Sabbatical

1. Synchrotron Advanced Light Source (ALS) at Lawrence Berkeley National Lab. (LBNL), University of California at Berkeley - USA.

<i>Research Group:</i>	Synchrotron Infra Red Spectroscopy
<i>Professors:</i>	Noubumichi Tamura
<i>Period:</i>	Four visits during Jan. 2004 – Oct. 2005
<i>Topic:</i>	Submicrometer Resolution X-Ray Diffraction and Stress-Strain Mapping in Strained Silicon on Silicon Germanium Heterostructures, Nitrogen doped Silicon, and SOI Materials.

2. Synchrotron Advanced Light Source (ALS) at Lawrence Berkeley National Lab. (LBNL), University of California at Berkeley - USA.

<i>Research Group:</i>	Synchrotron Infra Red Spectroscopy
<i>Professors:</i>	Michael Martin
<i>Period:</i>	Four visits during Jan. 2004 – Oct. 2005
<i>Topic:</i>	Characterization of Nitrogen, Oxygen, and Carbon Impurities In Crystalline Silicon Solar Cell Material Using High Resolution FTIR

3. North Carolina State University - Department of Materials Science and Engineering - Raleigh - USA.

<i>Research Group:</i>	Microelectronics and Materials Research Group
<i>Professors:</i>	G. A. Rozgonyi
<i>Period:</i>	Aug.19th, 1995 until Dec. 2004
<i>Topic:</i>	Characterization of impurity gettering and passivation of crystalline defects in ultra pure silicon and silicon germanium heterostructures

4. Laboratoire de Physique de la Matière - Institut National des Sciences Appliquées de Lyon - France

<i>Research Group:</i>	Micro Nano Technologies Silicium
<i>Professors:</i>	G. Marrakchi and A. Laugier
<i>Period:</i>	Feb.2,1995 to May 5, 1995
<i>Topic:</i>	Characterization of energy levels created by grain boundaries in tri-crystalline silicon (as grown and passivated) by DLTS ¹ and PICTS ² using Schottky diodes.

5. Inter university Microelectronics Center (IMEC - KUL) - BELGIUM

<i>Research Group:</i>	Photovoltaic and Microelectronics
<i>Professors:</i>	R.Mertens and V.Overstraeten
<i>Period:</i>	May 1, 1985 to Oct.30, 1985
<i>Topic:</i>	Fabrication of polycrystalline silicon solar cells by screen printing technique and grain boundary characterization by Light Beam Induced Current (LBIC).

6. Electronics and Electrotechnic Department, Universiteit Katholieke Deit Leuven (KUL) - BELGIUM

<i>Research Group:</i>	Photovoltaic and Microelectronics
<i>Professors:</i>	R. Mertens and V. Overstraeten
<i>Period:</i>	Sep.1, 1984 to Dec.1, 1984
<i>Topic:</i>	Development of a LBIC set-up for silicon polycrystalline defects characterization

¹ Deep Level Transient Spectroscopy

² Photo Induced Capacitance Transient Spectroscopy

7. Ecole Normale Supérieure de Chimie -Université de Pierre Marie Curie- Paris IV

<i>Research Group:</i>	Electrochimie de couches Semi-conductrices
<i>Professors:</i>	J. Vedel et P. Trimillon
<i>Period:</i>	Oct.1, 1981 to Dec. 31 , 1981
<i>Topic:</i>	Fabrication of CdS/Cu ₂ S thin films solar cells by electrochemical methods and by Spray

8. Brief visits to:

- NIST in Oct. 2004
- NRL in Oct. 2004
- SLAC in March 2003, and in May 2004

IV –Scholarship / Fellowship

1. Fulbright Fellowship, sponsored for two years (1995-1997) in North Carolina State University.
2. Junior Fellow to International Centre of Theoretical Physics, one month visit per year between 1987 and 1993
3. EEC Scholarship for visiting IMEC, Belgium 1984-1985.