Institute of Electron Technology (ITE) – the major Polish research centre on semiconductor micro- and nanotechnology

WHO WE ARE?

Institute of Electron Technology (ITE) is based in Warsaw, Poland. It was established in 1966 to support industry by development and dissemination of new, knowledge based technologies and designs.
ITE is a major Polish research centre with the primary focus on semiconductor micro- and nanotechnology. The applied research led by ITE is focused on meeting the demand of the industry for new, advanced and innovative technologies and products in the field of ICT.

COLLABORATION INTERESTS

International co-operation within the projects in Framework Programmes and collaborative research in areas of:

- Micro/nano based sub-systems: (MEMS/NEMS, MOEMS);
- Bio-compatible microelectrodes, silicon micro- and nano-probes;
- Embedded systems design, integrated circuit and systems (ASIC, MEMS, sensor) design;
- Photonics components: high performance lasers, sensors exploiting innovative sensing principles.

RESEARCH AREAS

The mission of the Institute is to conduct the basic and applied research in the field of:

- Micro/Nano based sub-systems: MEMS/NEMS, MOEMS (microtechnologies in: automotive, heath, environment, nanotechnologies in: heath, environment); bio-compatible microelectrodes for medical implants; silicon micro- and nano-probes withit integrated piezoresistive force sensors;
- Embedded systems design, Integrated Circuit and Systems (ASIC, MEMS, sensors) design;
- Photonics components: high performance lasers, sensors exploiting innovative sensing principles.

MAIN ACHIEVEMENTS

ITE was awarded many nation-wide prizes for research and commercial achievements. Among others the most important are:

- Economic Award of President of Polish Republic for the best invention in the field of new product or technology for the development of silicon avalanche photodiodes. June 1998.
- Medal at international fair INTERTECHNOLOGY'99, Lodz 1999, for the silicon photodetectors.
- Award of Mister of Technology of Warsaw 2001 with 1-st category award of High Technical Association for Multifunctional System for Photoelectric Investigation

REFERENCE PROJECTS

- **HEALTHY AIMS**, Nano scale materials and sensors and microsystems for medical implants (FP5), improving health and quality of life (FP6),
- **OPTOLABCARD**, Mass Produced Optical Diagnostic Labcards Based on Micro and nano SU8 Layers (FP6),
- **HYPHEN**, Hybrid Substrates for Competitive High Frequency Electronics (FP6),
- **INTEGRAMplus**, Integrated micro- and nanotechnology platforms and services,(FP6),
- **e-CUBES**, 3-D Integrated Micro/Nano Modules for Easily Adapted Applications (FP6),
- **VERTIGO**, Versatile Two Micron Light Source (FP6),
- **WARMER**, Water Risk Management in Europe (FP6)

ITE is also active in European networks supported by European Commission:

- MIcro-NanOSystems EUROpean NETwork (**MINOS-EURONET**)
- Micro and Nanotechnologies going to EASTern Europe through NETworking (**MINAEAST NET -**)
- Network of European Micro- and Nanotechnology (**MNT-ERANET**)

WHAT MAKES ITE A GOOD PARTNER

- International business contacts
- Experience
- Highly qualified team

OTHER INFORMATION

Contact person: Prof. dr hab. Inż. Jerzy KĄTCKI,
Vice-Director for Research and Development
Tel.: 48 22 548 77 60
Fax: +48 22 847 06 31
e-mail: katcki@ite.waw.pl

This profile has been developed under the HAGRID project. (www.hagridproject.net)