Nanotechnology and nanoApplication Workshop
February 5 - 6, 2020

CO NANOCENTER - CENN
your partner in nanotechnology research

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Access to knowledge and facilities

Addressing the need of industry, research institutions and universities
Infrastructure facility (nanoscience, new materials)

Synthesis of new nanomaterials

Processing

Characterization
Synthesis of new nanomaterials:

especially important for ultimate industrial applications. New materials, discovered and synthesised can be the basis of new technologies and products, which gives users a competitive advantage.

PLD – Pulse Laser Deposition

a technique for thin-film growth of inorganic materials mainly

MBE – Molecular Beam Epitaxy

precise deposition method for single crystal thin film growth

Complex oxides on SrTiO$_3$/SiO$_2$/Si

TaS$_2$, MOS$_2$, etc.
Processing:

Nanofabrication technologies

DaLI direct Laser Lithography System
an universal, high-resolution, table top laser direct imaging (LDI) system for prototyping on resist-covered substrates

ALD – Atomic Layer Deposition
for the application of different atomic layers, accelerate significantly the final prototyping, allow the functionalization of nanomaterials and thin nanostructured layers

FIB – Focused Ion Beam
a technique used in the semiconductor industry, materials science and in the biology field for site-specific analysis, deposition and ablation of materials using accelerated ions
Characterization

the core of all progress in nanotechnology

Magnetometer
NMR STM
LT STM
Raman microscope AFM
Confocal microscope
Elipsometer
4-Probe STM UHV
X-ray diffractometer
Open Access

Easy access for trained users and operators via On-line Reservation system

Training

Simple.
Individual or in small groups, based on the knowledge of the trainee. Organized by:
Jozef Stefan International Postgraduate School.
Research Projects
Ministry of Science, ERD Funds, National Research Agency, FP7, H2020, ERC, NFFA

Project with Industry
access to the equipment, interaction of sectors

Promoting Open Access infrastructure
in dialog with users and policy makers

Highlights

Creating a network
CENN hosts over 100 users from industry, universities and research institutes annually

Stairway to Excellence, S2E, 2016
CENN was chosen as an example of good practice in combining European Structural and Investment Funds and FP7/ H2020 funds in order to amplify the R&I investments and their impact

Slovenian Smart Specialization Strategy – S4
CENN was successfully coordinating initiative for adopting Nanotechnology and Photonics as KETs into S4

Strategic Research and Innovation Partnership – SRIP
CENN is co-coordinating Horizontal Network Nanotechnologies in SRIP

Factories of the Future

Further information and details:
http://www.nanocenter.si/