

Centre of Excellence for Advanced Materials of the Future (NAMASTE)

Address:

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Profile and background:

CoE NAMASTE is a multi-disciplinary and trans-disciplinary consortium of research institutions and industry, who have decided to merge academic, technological and business expertise, skills, and equipment in order to foster crucial technological progress in selected areas relating to inorganic non-metallic materials and their application in electronics, optoelectronics, photonics, and medicine. Our activities lead to a substantial increase in added value, research relevance and scientific excellence.

The strategic goals of CoE NAMASTE are: continuity in research excellence, multidisciplinary interconnection, knowledge dissemination and technology transfer. Maintaining and constantly upgrading our excellence in research, technology and business are the important guidelines.

The Center is a private research institution employing over 80 highly qualified researchers from major research institutions in Slovenia and from industrial research groups.

Our researchers are well known, during the last three years they conducted over 120 invited lectures worldwide, they are visiting scientists in renowned universities. We are in a process of establishing a spin-off company in Lithuania. So far, CoE NAMASTE has no partner in India yet.

Partnership sought

NAMASTE is seeking:

- Partnership for joint development projects in Defence (Homeland Security), Hospitals, Electronic and Automotive Industry (sensors, detection systems)
- Industrial partners needing R&D services (biotechnology, nanomaterials, pressure sensors, high voltage and EM radiation protection)
- Partners for developing nanomaterials for lubricants in various industrial applications

References and presence in India

Some exceptional results, such as:

- the large aspect ratio of the dimensions of a buried cavity, which will make possible the fabrication of highly sensitive ceramic membranes;
- the new developments in materials for low-doped ZnO varistors for high-voltage protection and prototypes for electromagnetic radiation protection;
- being "world champions" in THz field detection;
- being first in the world to create a 3D microlaser;
- being the leader in studying phenomena in chiral nematic liquid crystals;
- developing new methods for investigating the interaction between nanomaterials and living cells.

Presenter:

Prof. dr. Janez Trontelj received the E.E., M.E., and Ph.D. degrees from the Faculty of Electrical Engineering, University of Ljubljana, Slovenia, in 1965, 1970, and 1971, respectively. He is the Head of the Laboratory for microelectronics LMFE and is leading Advanced sensor systems program of the Center of excellence NAMASTE.

His interest is in development of advanced VLSI design methods and integrated microsensor systems. He was invited lecturer at several research institutes in Europe.

He is co-author of the book "Analog Digital ASIC Design", McGraw-Hill Book Company, 1989. He received several National awards. He is holding 30 patents, out of which 16 international, and has published over 180 technical papers and articles.