



**Institute of
Electrical Engineering
& Electrotechnologies**
Lublin University of
Technology, Poland

**Centre of Excellence
for the Application of
Superconducting and Plasma
Technologies in Power Engineering**



***Thematic Conference
“Electromagnetic Devices and Processes
in Environment Protection – ELMECO-5”***

This is the fifth International Conference in a series which started in 1994. The objective of the Conference is to provide the researchers with the opportunity to present and discuss the progress in the field of electromagnetic devices and processes in environment protection. The Conference is focused on knowledge exchange in the above field and it promotes some industrial applications. All presentations will be published in the Book of Abstracts prior to the conference. The Conference will be held in Nałęczów, a popular resort located 25 km from Lublin – one of the main cities in the eastern part of Poland, placed within the distance of 170 km from Warsaw. The following sessions will be included in the conference programme:

- ◆ Oral sessions
- ◆ Poster sessions:
- ◆ Industrial session This session will enable the researchers to compare results of their investigations with the industrial practice.



***Strategic Workshops
“Superconducting Technologies”
&
“Plasma Technologies”***

The workshop “Superconducting Technologies” will be organised prior to the Conference ELMECO-5. The workshop “Plasma Technologies” will be organised after the Conference ELMECO-5. Both workshops will be organised on the premises of the Conference Centre “ENERGETYK”. The organisers will provide all arrangements required for its proper realization (conference room, audio-visual support, poster exhibitions, coffee breaks, accommodation and board for the participants). The workshops will be addressed to young researchers, students, and representatives of industrial sector from NIS and INTAS countries, all who wants to upgrade the knowledge in the field of the application of superconductivity and plasma technologies. During the workshops, the following issues will be discussed:

◆ **“Superconducting technologies”:**

Phenomena in superconductors,
Superconducting fault current limiters,
Superconducting magnets,
Superconducting separators,
Contact cooling systems,
Superconducting transformers,
Superconducting magnetic energy
storage systems,
Superconducting electric machines.

◆ **“Plasma technologies”:**

Ozone production technologies,
Diagnostic of non-standards plasma,
Plasma technologies in power
engineering,
New application of plasma for water and
gas purification,
Thermal plasma for environmental
protection,
The influence of electromagnetic field
on living organisms,
Numerical simulation of the gliding
electric discharge

The workshops will be focused on training activity of the participants and discussion. The participants will receive the Certificate of Attendance issued by ASPPECT.