

90th Anniversary of Industrial Chemistry Research Institute



Józef Menes Managing Director of Industrial Chemistry Research Institute

INDUSTRIAL CHEMISTRY Research Institute in Warsaw is a research and development unit with 90-year tradition. Established in Lvov in 1922, up until now has been keeping its position as a leading research institute in Poland in applied and development research in the area of chemistry and chemical technology.

Since 1926 it has been located in Warsaw.

The Institute's main activities are:

- :: development of new chemical technologies and modernization of already implemented technological processes, including:
 - new polymeric materials, composites and nanocomposites,
 - pharmaceutical intermediate products,
 - highly processed chemical products,
 - conductive materials for new generation fuel cells,
 - plastics recycling,
 - new biofuels;
- :: research and development in the field of:
 - biotechnology – use of renewable products and application of bioprocesses in chemical synthesis,
 - environment-friendly chemistry (green chemistry);
- :: studies concerning development of new technologies concerning:
 - research and analysis,
 - polymeric materials processing;
- :: research and analysis of development strategies for sectors and various units of chemical industry;

- :: undertakings for the benefit of the economy and society:
 - support of Ministry of Economy in legislation concerning prevention of major emergencies,
 - keeping a REACH Consultation Point and conducting trainings for enterprises on the REACH decree (cooperation with Ministry of Economy),
 - implementation of Globally Harmonized System of Classification and Labeling of Chemicals (GHS),
 - activities of the Ozone Layer and Climate Protection Unit (cooperation with Ministry of Environment and Ministry of Economy),
 - standardization;
- :: scientific and technical information;
- :: publishing activity; the Institute is the editor of scientific journal "Polimery" of international circulation.

Achievements of the Institute comprise over 2000 patents received both home and abroad and hundreds of original studies concerning technology and equipment, implemented in the industry.

Most prominent achievements of the Institute include development of technologies concerning production of cyclohexanone, polyoxyethylene, unsaturated polyester resins, epoxy resins, silicone products, vinyl polymers and engineering materials. Licenses on implementation of a number of these technologies have been sold to: China, Taiwan, Italy, South Korea, India, Spain, former Soviet Union, Belarus and Slovakia.

Industrial Chemistry Research Institute is also a national leader in solution of problems concerning plastics recycling, what was confirmed by tasking the Institute with coordination of the Commissioned Research Project „Economy and development of technological use of waste polymeric materials in Poland”, carried out by 11 domestic research units.

The Institute has been taking part in:

- :: Centers of Excellence:
 - Center of Competence for Advanced Polymeric Materials of Industrial Importance POLMATIN,
 - Integrated Center of Excellence for Neuropeptides Medical Chemistry,

- Center of Advanced Technologies „Chemistry for Economy” CHEMCAT;
- :: Scientific Networks:
 - New Materials – Nanomaterials for Application in Engineering and Medicine,
 - Network of Excellence „Advanced Methods and Tools for Handling and Assembly in Microtechnology – AS-SEMIC”,
 - International Thematic Scientific Network for Environmental Technologies – ENVITECH-NET,
 - Scientific Network „Innovative Catalytic Materials in the Ecosystem Protection – EKO-KAT”;
- :: Polish Technology Platforms:
 - Hydrogen and Fuel Cells,
 - Industrial Safety,
 - Sustainable Chemistry,
 - Biofuels and Biocomponents,
 - Advanced Materials,
 - Environment;
- :: Polish Platform on Innovation in Medicine;
- :: Nanoplatform;
- :: European Platform of Women Scientists.

Industrial Chemistry Research Institute as one among few departmental institutes is entitled to award the scientific degree of Ph.D. of Technical Sciences in the specialty of chemical technology. In cooperation with universities, the Institute has been conducting a wide-ranged development program targeted at young scientific researchers, involving organization of student apprenticeships, leading of Master's and Doctor's theses and organization of specialist seminars.

In 2010 the Institute was positively evaluated by the European Commission in the context of its participation in the 7th Framework Programme. ::

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