**Application form and abstract:**
Please send by post, fax or e-mail till 15 January 2013:
Polskie Towarzystwo Nukleoniczne
ul. Dorodna 16, 03-195 Warszawa
tel.: 22 5041384, fax.:22 5041313, e-mail: ptn@ichtj.waw.pl

**Programme Committee:**
- prof. A. G. Chmielowski (ICHTJ),
- prof. S. Chwaszczewski (NCBJ),
- prof. J. Lewandowski (PW),
- prof. E. Macha (P. Opolska),
- prof. J. Niewodniczański (AGH),
- mgr inż. A. Patrycy (Energioprojekt),
- prof. A. Reński (PG),
- mgr inż. R. Rusečzyński (PGE EJ),
- prof. J. Składzień (PŚ),
- prof. G. Wrochna (NCBJ),
- dr inż. Z. Zimek (PTN)

**Contributed papers:**
- Status of Polish road map of nuclear power implementation;
- National Atomic Agency responsibility in Polish Nuclear Energy Program;
- PGE involvement in construction first polish nuclear power station;
- Qualified personnel for nuclear power;
- Research and strategic programs related to nuclear power supported by NCBiR;
- Polish industry involvement in nuclear power station constructed abroad;
- Scientific and technical support organizations (TSO);
- Total quality management

**Organizing Committee:**
- dr inż. A. Mikulski (PTN/PAA),
- dr inż. W. Głuszewski (PTN/ICHTJ),
- mgr K. Różyczki (PTN/NCBJ),
- dr inż. B. Sartowska (PTN/ICHTJ),
- dr N. Uzunow (PTN/PW)

**PATRONAGE:**
- Institute of Nuclear Chemistry and Tech.
- National Centre of Nuclear Research
- Association of Polish Electrical Eng.
- Committee of Energy, PAS

**SPONSORED BY:**
PGE, AREVA, GE Hitachi, ...

**Lodgings:**
Hotel MDM, pl. Konstytucji 1, 00-647 Warsaw. Applications till 15.01.2013.
- 270 zł/day (2 persons room),
- 240 zł/day (1 person room).

**Attendance fee:** 400,00 PLN
(includes conference papers and catering)
### Localization of the Conference Center

Nowowiejska 21/25 Str.

### Purpose of the conference

The purpose of the conference is to present possibility of participation of Polish science (higher schools and research institutes) and industry in construction and operation nuclear power plant in Poland. Every potential investor assures that Polish industry will take part in construction of NPP but the correlation of industry and requirements of nuclear industry and future investor should be fulfilled. It is known that some Polish companies are already involved in construction of NPPs abroad (NPP Olkiluoto in Finland). In future, such participation of Polish industry should be much wider. The second, also important problem is participation of Polish science in preparation of personnel for safe and economically effective operation of NPP. The organizer hope that discussion between representative persons from industry and universities will help to find solution for high demands required by producers of equipment for nuclear reactors.

The main aim of the conference will be to evaluate a possible participation of Polish companies in construction and universities in preparing adequate personnel for operation of NPP.

### Sessions:

1. Opening ceremony;
2. Training in aspects related to nuclear technology;
3. Research and strategic programs;
4. Competences of domestic industrial organizations;
5. Polish industry involvement in nuclear power station constructions abroad;
6. Current status of nuclear power technology;
7. Poster session

### Conference refers to

two others conferences organized by Polish Nuclear Society in Center of Polish Academy of Science, localized in Mądralin:

**POLISH SCIENCE AND TECHNOLOGY FOR FUTURE NUCLEAR POWER**

organized 13-14 April 2000 with 68 participants and 5 contributed papers and 27 oral presentations (descriptions given in journal *Postępy Techniki Jądrowej* nr 3/2000)

**POLISH SCIENCE AND TECHNOLOGY FOR NUCLEAR POWER IN POLAND**

Organized 13-14 January 2011 with 110 participants representing 42 institutions, 40 oral presentations and 12 posters.

11 institutions participate in organized exhibition during the conference.
Basic Information

In 1990 a group of concerned specialists started collecting declarations from the founding members of the society from Warsaw, Cracow, Gdansk, Gliwice, Poznan and Wroclaw.

The founding congress of the Polish Nuclear Society (PNS) was held at the Warsaw University of Technology on 26 June 1991. Professor Jerzy Minczewski, a long-term Director of the Institute for Nuclear Research, was elected as the first President. The Society was officially registered in court on 9 May 1991 and on 4 July of the same year it became a Member Society of the European Nuclear Society.

The PNS started its activity after the government had decided in 1990 to stop the construction of the nuclear power plant in Żarnowiec and this resulted in the massive exodus of specialists to other jobs in Poland and abroad. For that reason the main subject of interest for the Society became the application of nuclear techniques in the industry, agriculture, food conservation and health and environment protection. Under the new conditions of the market economy the development of such nuclear techniques is governed by a very strict competition and only those which are more effective, cheaper, safer and more user-friendly than the standard techniques can find the application.

For the moment in Poland there are neither nuclear power plants nor any plans of introducing nuclear energy into the electrical network. Over the years which elapsed since the construction of the NPP Żarnowiec had been stopped, the organisational and technical structure created for that purpose has almost completely disappeared. The activity of the Nuclear Energy Section of the PNS is aimed at saving as much as possible of the infrastructure capable of analysing nuclear power plants and fuel cycle industry as well as the present trends in the field of nuclear energy.

Most of information which is distributed by public media is strongly biased against the nuclear energy and is aimed at convincing the public that there are no rational reasons for its development. The task of the Information and Publication Section of the PNS is the dissemination of true facts about the nuclear energy and its effect on the environment. It is believed that the honest and unbiased information on the atomic energy is vital for the future development of our country.

The situation in Poland in the nuclear field makes very important the co-operation of the PNS with foreign organisations of the similar character. The PNS is the Member Society of the European Nuclear Society and its individual members belong to the 20000 membership of the ENS. In 1993 the Memorandum of Co-operation with the American Nuclear Society was signed. In 1994 the PNS signed the declaration of International Council of Nuclear Societies concerning the role of nuclear science and technology in a sustainable development of the contemporary world. This declaration presents a deep philosophical view on the challenges faced by mankind in the situation of ever diminishing natural resources. In 1997 an agreement of co-operation with the Belgian Nuclear Society was signed. In 2001 the Polish Nuclear Society has become associated with the World Nuclear Association.

In 1995 the PNS established a close co-operation with the Association of Polish Electrical Engineers and with the Committee for Energy Studies of the Polish Academy of Sciences. This resulted in organizing the international seminars on New Generation Nuclear Power Plants held in Warsaw on 25-27 September 1996 and on Nuclear Power
for Poland held on 25-26 March 1999. Both seminars attracted participation of eminent specialists from various countries, including representatives of seven leading suppliers of nuclear power plants from Europe and America. The Seminars were actively supported by the International Atomic Energy Agency, the ENS and the ANS.

The PNS is an opinion forming body in the broad field of nuclear energy. In 1992 the bi-annual General Meeting drew the public attention to the degradation of the natural environment in Poland due to the fact that the energy is produced almost entirely from coal. In 1996 the PNS appealed to the authorities to prevent the further decline of the scientific institutions formed in Świerk near Warsaw from the former Institute for Nuclear Research. The latter was dissolved in 1982 by the martial law authorities as an act of repression against the political underground organisations active there and against the entire scientific community which was characterized by the great intellectual independence. In December 1997 the PNS together with the Association of Polish Electrical Engineers and the Committee for Energy Studies of the PAS sent a memorandum to the Ministry of State Economy urging it to start co-ordinated studies of technical and economical aspects of the nuclear energy which is one of possible future source of energy in Poland.

In order to stimulate the interest of Polish universities in various aspects of nuclear science and engineering the PNS is offering each year since 1999 two or three prizes for the best MSc thesis in the field of nuclear energy.

Statutory aims of the PNS are
- acting for the safe utilization of nuclear energy to the benefit of the society, particularly in the field of energy production, development of industry and agriculture and protection of environment,
- initiating and supporting scientific and technical activity in all fields of nuclear energy,
- objective and unbiased information of the public on all safety aspects of nuclear energy.

Polish Nuclear Society activities:
- organization by PNS or participation in organization schools, seminars, conferences, exhibitions related to nuclear energy;
- participation PNS members in seminars and conferences;
- participation in promotion and educational program;
- participation in debates organized by Economy Commission of polish parliament;
- expertise and consultations;
- publication reports related to NNP.

Members of the Executive Board elected in April 2011:

President:
Dr. Zbigniew Zimek, Head of the Department of Radiation Chemistry and Technology of the Institute of Nuclear Chemistry and Technology, Warsaw

Vice-presidents:
Prof. Stefan Chwaszczewski, National Nuclear Research Centre, Świerk
Prof. Jan Składzień, Technical University, Gliwice
Prof. Andrzej Reński, Silesian University of Technology, Gdańsk
Members of the Board:
Dr. Nikołaj Uzunow, Warsaw University of Technology, Warsaw
Prof. Grażyna Zakrzewska-Trznadel, Institute of Nuclear Chemistry and Technology, Warsaw
Dr. Wiesław Gorączko, Poznan University of Technology, Poznań
Mr. Tomasz Jackowski, National Nuclear Research Centre, Warsaw
Dr. Marek Rabinski, National Nuclear Research Centre, Świerk
Mr. Zdzisław Gawlik, PGE Energia Jądrowa SA, Warsaw
Dr. Andrzej Mikulski, National Atomic Energy Agency, Warsaw
Dr. Bożena Sartowska, Institute of Nuclear Chemistry and Technology, Warsaw
Doc. Lech Waliś, Institute of Nuclear Chemistry and Technology, Warsaw
Dr. Wojciech Głuszewski, Institute of Nuclear Chemistry and Technology, Warsaw

Secretary General

Revising Committee:
Mr. Jacek Baurski, Polish Power Grid Company, Warsaw
Dr. Jerzy Chmielewski, Institute of Nuclear Chemistry and Technology, Warsaw
Dr. Stanislaw Latek, National Atomic Energy Agency, Warsaw

Court:
Prof. Marek Jeżabek, Institute of Nuclear Physics, Kraków
Prof. Jerzy Niewodniczański, AGH, Kraków
Prof. Grzegorz Wrochna, National Nuclear Research Centre, Warsaw

Nuclear Techniques Section:
Chairman:
Dr. Bożena Sartowska, Institute of Nuclear Chemistry and Technology, Warsaw

Activities:
Development and use of nuclear techniques mainly in power production, industry, medicine, agriculture and protection of environment. Co-organisation of the following conferences:

- International Seminar on Radiation Processing of Combustion Flue Gases, Zakopane, 24-28 May 1993,
- National Symposium on Nuclear Techniques in Industry, Medicine, Agriculture and Protection of Environment, Rynia, 24-27 April 1995,
- National Symposium on Nuclear Techniques in Industry, Medicine, Agriculture and Protection of Environment, Cracow, 16-18 September 1998,
- Sixth School on Sterilisation and Use of Radiation for Maintaining Hygiene, Warsaw, 24-25 May 2001 (organised every second year),
- Co-organisation together with the Polish Medical Society of the conference on “Ionising Radiation-Application and Heath Hazards”, Warsaw, December 2001.
- National Symposium on Nuclear Techniques in Industry Medicine, Agriculture and Protection of Environment, planned for 11-19 April 2002 in Warsaw.
**Nuclear Power Section**

**Chairman:**
Dr. Andrzej Mikulski

**Activities:**
- Organisation at the Technical University of Warsaw, in co-operation with the Nuclear Energy Committee of the Association of Polish Electrical Engineers, of lectures on selected subjects related to nuclear power and its fuel cycle.
- Organisation of the seminar and the exhibition: Atom in the service of mankind and civilisation, Technical University, Warsaw (1994).
- Co-organisation of the International Seminar on Nuclear Power for Poland, Warsaw, 25-26 March 1999,
- Conference organisation: Polish Science and Technology for Nuclear Power Plant in Poland; Mądralin near/Warsaw, January 13th - 14th, 2011.

**Publication and Information Section:**

**Chairman:**
Dr. Marek Rabiński

Publication of the bimonthly Biuletyn Nukleoniczny (Nucleonic Bulletin) devoted mainly to the application of nuclear techniques and methods in various fields of national economy, health care and environmental protection. It is widely distributed to government officials, parliamentarians, scientific establishments and public media.

Distribution of the pamphlet Nucleus published 5-7 times a year by the ENS containing short information on nuclear energy and addressed to opinion-forming bodies in the European countries

The Section participates in publishing the quarterly “Postepy Techniki Jądrowej” (Advancements of Nuclear Technique) established in 1958 and devoted to nuclear energy, nuclear techniques and radiation protection.

Chairman of the Editorial Committee: Dr. Stanislaw Latek.

Nukleonika – a quarterly with over 40 years of tradition in publishing scientific articles on nuclear energy, now only in English.

Editor-in-Chief: Prof. Andrzej G. Chmielewski

Selected publications:

Third General Meeting of the PNS: Proceedings of the scientific session (1995)

Czarnobyl – dziesięć lat później (translated from ‘Chernobyl – ten years after’ published by the British Nuclear Industry Forum in 1996)
PNS reports:


“Analiza Korzysci i Zagrozen Zwiazanych z Roznymi Zrodlami Energii Elektrycznej” (Benefits and Risks Associated with Different Energy Sources used for Electricity Generation), 1999.

“Promieniowanie Jako Zrodlo Informacji o Wlasciwosciach Materii” (Radiation as a Source of Information on Characteristic of Matter), 2001

“Nuclear Energy: A Which Trial”, Jacques Devooght, published first by the Belgian Nuclear Society and the Universite’ Libre de Bruxelles and translated into Polish under the agreement with the Belgian side and published as “Sąd Nad Energią Jądrową: Współczesny Proces Czarownic”, 2001

“Nuclear energy: prospects of development in Poland” 2009 (edition 1200)