

The vision of nuclear-coal synergy programme was presented to the European High Temperature Reactor Technology Network (HTR-TN) committee on 26 January 2007. The Network acknowledged the convergence of this initiative with the strategy it promotes for the development of HTR in Europe as a CO₂ free heat source for industrial applications.

References:

[1] http://www.paa.gov.pl/dokumenty/strategia_rozwoju_atomistyki.pdf

10. Educational and science popularisation activities at HIL

A. Trzcińska, K. Wrzosek, J. Iwanicki, G. Jaworski¹, A. Kordyasz, J. Kownacki, Z. Morozowicz, P.J. Napiorkowski, M. Palacz, L. Pieńkowski, J. Srebrny, O. Steczkiewicz, M. Wolińska-Cichocka

1) also at the Faculty of Physics, Warsaw University of Technology, Warsaw, Poland

For many years the Laboratory has been strongly involved in education and science popularisation. Guided tours at HIL have become our regular activity. These “live” lessons on cyclotron and nuclear physics continue to enjoy popularity in high schools, including ones from outside Warsaw. During a guided tour visitors can see the control room and the cyclotron, get acquainted with facilities installed in the Laboratory and experiments performed here. Short lectures – basic introduction to the nuclear physics and principles of the cyclotron operation – are also offered, especially to high school students. Tours are free of charge.

In total, 37 organized groups (over 850 people) visited our Laboratory in 2007. Twenty of them were high school classes. We also hosted groups of students from various faculties of the Warsaw University, including Physics, Chemistry and Biology, as well as from the Physics Faculty of the Warsaw University of Technology and the Dominican College of Theology. Finalists of Physics Olympiad, finalists of Young Physics Talents Competition, participants of Summer School of Physics and numerous groups of physics teachers were also among our visitors in 2007.

In 2007 for the 11th time HIL participated in the annual Warsaw Festival of Science and during this event the “Researchers’ Night” was organized in the Laboratory for the first time. We opened the door for general public on 28 and 29 September. During the Researchers’ Night, the visitors (about 150 people in a wide spectrum of ages, ranging from school children to the elders) took part in a nuclear physics measurement performed using the OSIRIS-II set-up, aiming at observation of gamma-ray radiation emitted from excited nuclei. Our guests had an opportunity to talk to physicists, ask all kinds of individual questions and learn how the scientific work looks like. We presented our motivations of being a scientist and explained why we have chosen this career path. We discussed as well the significance of science for the future of Poland, for the economy, and for our position in the world. A short movie was recorded during this event by the internet television station LIM TV.

The following day more than 250 people visited the Laboratory. They could choose from a rich programme, including a guided tour of the cyclotron and other experimental facilities, lectures “Physics for Goalkeepers”, “Radiation and health – story about PET” (by P.J. Napiorkowski), “High temperature reactors: history and perspective”, “How to reach Mars” (by L. Pieńkowski). Two of these lectures were also presented during the preceding week in the form of so-called Festival Lessons for high-school classes, and attracted large attention.

The Third Polish Workshop on Heavy Ion Acceleration and its Applications was organized at HIL in March 2007. The participants gained experience in methods of data acquisition and analysis, in operating the cyclotron including the beam diagnostics measurements and in charged particle and gamma-ray detection techniques (see Sec. 11).

HIL staff members are also engaged in supervising MSc and PhD theses – see Part D.

11. Polish Workshop on Heavy Ion Acceleration and its Applications

P.J. Napiorkowski, A. Trzcińska, J. Choiński, K. Hadyńska¹, G. Jaworski², J. Kownacki, J. Mierzejewski³, M. Palacz, J. Srebrny, O. Steczkiewicz, J. Sura, K. Wrzosek

1) also at the Faculty of Physics, Adam Mickiewicz University, Poznań, Poland

2) also at the Faculty of Physics, Warsaw University of Technology, Warsaw, Poland

3) also at the Faculty of Physics, Warsaw University, Warsaw, Poland

The workshop was organized by the Heavy Ion Laboratory for the third time on 12-17 March 2007. As in previous years, it was intended for third year physics students interested in nuclear physics. The success of earlier editions of the workshop led to the increased popularity of this event – we received over two times more applications than we were able to accept. Seventeen selected students from four Polish universities (Adam Mickiewicz University in Poznań, University of Silesia, Maria Curie-Skłodowska University in Lublin and University of Szczecin) had an opportunity to attend a series of lectures on topics related to heavy ion physics. The experimental part of the Workshop allowed the participants to get acquainted with HIL infrastructure by performing measurements using dedicated detection set-ups available in the Laboratory.

