

Ukrainian Nuclear Data Centre

Progress Report

**IAEA Technical Meeting on the Network of NRDC
8 - 10 October 2007, Vienna, Austria**

Olena Gritzay, Nataliia Klimova

Institute for Nuclear Research

Prospekt Nauky, 47, Kyiv, Ukraine, 03680

Web: <http://ukrndc.kinr.kiev.ua/>

e-mail: ogritzay@kinr.kiev.ua

Introduction

UKRNDC is subdivision within the Neutron Physics Department at the Institute for Nuclear Research of the National Academy of Sciences of Ukraine

UKRNDC has:

- **5 permanent researchers**
- **3 of them involved in an implementation of the STCU contract UZ-25 "Creation of modern manufacturing technologies and certification methods for radioisotope production needed in science, medicine and industrial applications in Ukraine and Uzbekistan Republic"**

Compilation

continue collection and compilation of experimental data

Sent to NDS:

- **for neutron: 3 entries**
- **for charged particle: 41 entries**
- **for photonuclear data: 7 entries**

Collaboration

Continue collaboration with the PD of the Taras Shevchenko National University of Kyiv. The teaching courses are lectured in 2006-2007:

For graduate course students:

1. “Nuclear Data for Science and Technology” (36 hours per year)

2. “Modern computer codes for nuclear data processing” (36 hours per year)

For fourth-year students:

“Neutron Physics at the Kyiv Research Reactor” (36 hours per

Customer Services

The data from ENDF, ENSDF and EXFOR libraries was prepared and adapted on demand of the users from :

- Center of Environmental Problems INR of NASU
- Department of Nuclear Physics of Kyiv National University
- Department of Nuclear Physics of the Institute for Nuclear Research (INR)
- Department of Physics of Biological Systems of the Institute of Physics Department of the Theory of Nuclear Reactions INR of NASU.
- Department of Nuclear Reactions INR of NASU
- Uzhgorod Institute of Nuclear Physics of NASU
- **UKRNDC site is operating - for students and Ukrainian customers, who wish to prepare libraries self-dependently** Address: <http://ukrndc.kinr.kiev.ua>.
- *Today we are refreshing the site.*

Calculation

- ✓ The ACE-format libraries for the isotopes needed for calculations of the maximum specific activity of the irradiated products at the Kyiv research reactor WWR-M are in preparation. There are all isotopes of the following materials: Cr, Fe, Mo, Co, Y, Ru, Ag, Cd, Sn, Te, Cs, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Lu, Ta, W, Re, Ir, Sr, Au, Hg.
- ✓ The input data are taken from the nuclear data libraries: BROND-2.2, ENDF/B-VI (rel. 8), ENDF/B-VII, JEFF-3.1, JENDL-3.3, CENDL-2. Calculations are done by NJOY99.81 code at the computer ESCALA S120 with RISC/6000 processor under AIX operating system.

Visits and Conferences

- O. Gritzay and O. Kalchenko took part in the International conference on Nuclear Data for Science and Technology" (ND2007), which was held in Nice, France from April 22 to April 27, 2007.
- N. Klimova took part in the First French-Ukrainian Summer School of Particle Physics, which was held in Mukachevo in the Carpathian region of Ukraine from July 9th to July 14th, 2007.



The 2-nd International Conference
**Current Problems in
Nuclear Physics and Atomic Energy**

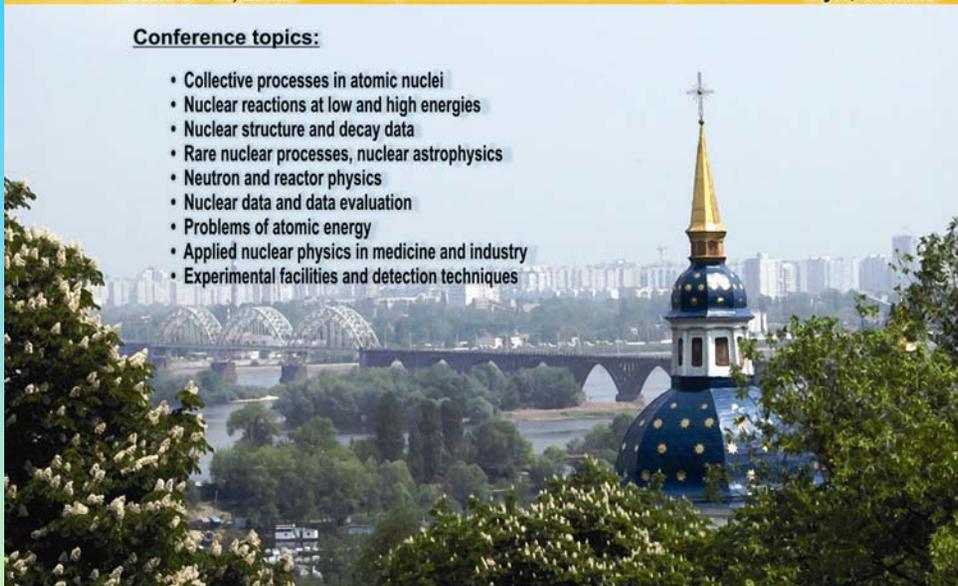
June 9 - 15, 2008

<http://www.kinr.kiev.ua/NPAE-Kyiv2008>

Kyiv, Ukraine

Conference topics:

- Collective processes in atomic nuclei
- Nuclear reactions at low and high energies
- Nuclear structure and decay data
- Rare nuclear processes, nuclear astrophysics
- Neutron and reactor physics
- Nuclear data and data evaluation
- Problems of atomic energy
- Applied nuclear physics in medicine and industry
- Experimental facilities and detection techniques



Organized by:

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Kyiv Institute for Nuclear Research of NASU
Taras Shevchenko National University of Kyiv

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