

Cyclotron Research Infrastructures

“Enlargement and Integration Workshop”

26-28 October 2005,

‘Meeting Room 2’, Joint Research Centre, Ispra (Italy)

Programme

26 October, 12:20 **Bus transport, Palace Grand Hotel to JRC Ispra**

13:00-14:30 Arrival at JRC, entrance formalities, registration and refreshments

Wednesday afternoon session

14:30 Welcoming address, and overview of the Joint Research Centre (JRC)
and the Institute for Health and Consumer Protection (IHCP)
D. Kotzias (JRC-IHCP, Ispra)

14:45 The “Cyclotron” and “Nanobiotechnology” projects of JRC-IHCP
H. Stamm (JRC-IHCP, Ispra)

15:00 Workshop overview and aims
N. Gibson (JRC-IHCP, Ispra)

15:20 Applications of medium energy light ions in the fields of material characterization,
radiation effects and radioisotope production
G. Blondiaux (CNRS/CERI, Orleans, F)

15:40 Coffee Break

16:00 Heavy Ion Laboratory of the Warsaw University, and Warsaw PET Centre
J. Choiński (University of Warsaw, PL)

16:20 Positron Emission Particle Tracking (PEPT) for industrial research
D. Parker (University of Birmingham, UK)

16:40 Information on plans to purchase a small cyclotron in Croatia
Z. Basrak (Rudjer Boskovic Institute, Zagreb, HR)

17:00 The PTB Ion Accelerators, Reference Radiation Fields and Microbeam Facility
U. Giesen (PTB Braunschweig, D)

17:20 **Bus transport to Palace Grand Hotel**

19:15 **Bus transport from Hotel, dinner in the “Trattoria Bologna”**

22:00 Return to hotel

27 October, 08:00 **Bus transport, Palace Grand Hotel to JRC Ispra**

09:10 arrival at JRC, entrance formalities

Thursday morning session

- 09:40 Actual and future commercial activities at the Karlsruhe Compact Cyclotron
H. Schweickert (Zyklotron AG, Karlsruhe, D)
- 10:00 The AIC-144 cyclotron in Krakow - development and use
K. Gugula, B. Petelenz and J. Swakon (Polish Academy of Sciences, Krakow, PL)
- 10:20 Utilization of a 30 MeV Philips cyclotron for Nuclear Medicine research
P. Mikecz and U. Kirchner (UKE, Hamburg, D)
- 10:40 Coffee break
- 11:00 The Turkish cyclotron infrastructure and Radiopharmaceutical Chemistry Research at Ege University
P. Ünak (Ege University, Bornova, TR)
- 11:20 Development and optimisation of the routine production of PET tracers for a production site
D. Becker (ARGOS Zyklotron, Klagenfurt, A)
- 11:40 Overview of research possibilities at the BIONT cyclotron facility
P. Kováč and F. Macásek (BIONT, Bratislava, SK)
- 12:00 Radionuclide development and nuclear chemistry research around low and intermediate energy cyclotrons at the Forschungszentrum Jülich
S.M. Qaim (FZ Jülich, D)
- 12:20 Lunch break

Thursday afternoon session

- 14:00 Infrastructure of cyclotron-based research and applications at the Institute of Nuclear Research
F. Tárkányi and F. Ditrói (ATOMKI, Debrecen, H)
- 14:20 INFN research on medical radioisotope production with light ion accelerators
M. Bonardi and F. Groppi (INFN-LASA, Milan, I)
- 14:40 The Cyclotron Project in Latvia for medical and scientific needs
A. Auce and J. Berzins (Latvia Multipurpose Cyclotron Facility, Salaspils, LV)
- 15:00 The ¹⁸F-FDG production site at JRC Ispra
A. Pecorale (Amersham Health srl, part of GE Healthcare)
- 15:20 Coffee break
- 15:40 Experimental and routine production of radionuclides with the VINCY cyclotron
J. Čomor and N. Nešković (VINCA Institute of Nuclear Sciences, Belgrade, SRB)
- 16:00 A novel extraction line beam monitor: the SUCIMA and RUMBA projects
L. Badano (TERA Foundation, Novara, I) *and M. Caccia* (Univ. Insubria, Como/Varese, I)
- 16:20 Computer simulation of beam acceleration and extraction on the Cyclotron U-120M
J. Štursa (Nucl. Phys. Inst. of the Czech Academy of Sciences, Rez-Prague, CZ)
- 16:40 Linacs and detectors: contributions of TERA to existing cyclotrons
S. Braccini and U. Amaldi (TERA Foundation, CERN, Geneva, CH)
- 17:00 Discussion
- 17:40** **Bus transport to hotel**
- 19:30 Dinner at the Palace Grand Hotel
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28 October, 08:15 Bus transport, Palace Grand Hotel to JRC Ispra

09:10 arrival at JRC, entrance formalities

Friday morning session

09:40 Non-radioactive and radioactive nanoparticles for medical applications

S. Lucas (University of Namur, F)

10:00 Advanced Accelerator Applications: ongoing research activities and potential developments

L. Maciocco and R. Rocco (Advanced Accelerator Applications, St. Genis Pouilly, F)

10:20 Discussion

11:00 Coffee break

11:20 Final discussion, workshop closure

12:30 Lunch for those delegates staying on for afternoon discussions/visit

Friday afternoon

14:00 other presentations, discussions, visit (schedule to be finalised):

- *P. Kováč and F. Macášek*: The small animal PET facilities at BIONT
- Further networking discussions
- Visit to the Ispra Cyclotron Facility and/or Nanobiotech Laboratories

28/10/2005, ca. 16:00 final transport, JRC Ispra to Airport or hotels
