



2nd workshop on Exotic Radionuclides from Accelerator Waste for Science and Technology (ERAWAST II)

29.8.-2.9.2011 at Paul Scherrer Institute Villigen

The goal

The first exploratory workshop, ERAWAST I, held at PSI in November 2006, was aimed to look for potential collaboration partners and establish an international network for the exploitation of accelerator waste materials with regard to the use of exotic radionuclides in basic science and for technological applications. This search included partners from production facilities as well as application domains.

As the main outcome of this workshop, an international collaboration between interested partners could be established and both “early-to realize” and “long-term” experiments and applications were identified. After 5 years, it is time to have a look on the main achievements and to define future work and possibilities.

The topics

- Production and separation of exotic radionuclides
- Nuclear Astrophysics
- Basic nuclear physics
- Accelerator mass spectrometry
- Environmental Chemistry

The background

Exotic radionuclides such as for instance ^{44}Ti , ^{60}Fe , ^{26}Al , $^{7/10}\text{Be}$ and many others are of great interest in several research domains like astrophysics, geophysics, fundamental nuclear physics, for radioactive beam facilities and many others. The Paul Scherrer Institute owns one of the most powerful accelerators in Europe, the ring-cyclotron with 590 MeV proton energy and up to 2.4 mA beam current. Several long-term-irradiated materials, stemming from beam dumps, targets and shielding equipment, are available. Hotcell technique and the necessary in-cell equipment are now being installed at PSI offering the possibility to gain higher amounts of the desired material than in laboratory scale.

The second ERAWAST workshop will be divided into the following partitions:

- 1. Production and chemical separation of exotic radionuclides**

An overview on the possibilities of radionuclide production in the frame of the ERAWAST initiative will be given

- 2. Reports on achievements and results**

Several high-sophisticated experiments had been performed and will be reported here. Moreover, ongoing projects and status reports on running experiments are presented.

- 3. Realistic experiments to be planned in the near future**

Projects, which could be realized in an acceptable time frame (up to 5 years), will be introduced here.

- 4. “Dreams and Illusions”**

Future plans far away from a present chance of realization are an essential component in scientific thinking and development. Every new idea is welcome.

Dates and location

29.8.-2.9.2011 at Paul Scherrer Institute (Villigen, Switzerland), Building OSGA, Room EG6. Maps as well as timetables for the public transport are available on the web-page.

Coordinator

Dorothea Schumann

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Hosting organization

Paul Scherrer Institute Villigen.

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Accommodation

Participants are requested to make their own bookings. Rooms are blocked in the following hotels:

Schloss Böttstein www.schlossboettstein.ch 105 CHF

Hotel Terminus www.terminus-brugg.ch 115-125 CHF

Guesthouse PSI http://log.web.psi.ch/guest_house/guest_house.shtml
40-55 CHF

The deadline for hotel reservation is 30.6.2011. After that date, the rooms will be released. Please indicate the participation in the ERAWAST workshop.

Welcome reception

A welcome reception will take place on Monday, 30th August 2011 at 8pm in the Hotel Schloss Böttstein.

Workshop dinner

The workshop dinner will be performed also in Hotel Schloss Böttstein on Thursday, 1st September 2011 at 8pm.

Payment

Participants have to cover their full expenses. A registration fee will be required. Additionally, the costs for the workshop dinner on Thursday, 1st September 2011 and the welcome reception on Monday, 29th August, will be requested in advance.

The costs are the following:

	till 30.6.2011	after 30.6.2011
Registration fee	100 CHF	130 CHF
Welcome reception	50 CHF	50 CHF
Workshop dinner	150 CHF	150 CHF

Please, transfer the contribution to the following bank account:

Raiffeisenbank Böttstein
5314 Kleindöttingen
account number: 63912.55
BLZ 80652
SWIFT Code: RAIFCH22
IBAN: CH93 8065 2000 0063 9125 5
Account holder: Paul Scherrer Institut
5232 Villigen PSI

Very important:

Please indicate your **Name** and the word **ERAWAST workshop** on the transfer form. Without this information we cannot assign the transfer.

Abstracts and proceedings

We do not intend to release proceedings. However, every participant is requested to give an abstract describing her/his topic. A template will be available on the web page. There are no page limits. An abstract booklet will be available at the beginning of the workshop.

Web-site

<http://indico.psi.ch/conferenceDisplay.py?confId=324>

Deadlines

30.6.2011	Hotel reservation
30.6.2011	Payment for lower fee
15.8.2011	Payment for higher fee