

IP-EUROTRANS Internal Training Course ITC4:

“Particle Accelerator Technology ”

Date: 10th -11th May 2007

Organizer: Prof. em. Dr. Horst Klein
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Place: SCK•CEN
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Boeretang 200
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Local Organiser: Dr. Ir. Gert Van den Eynde
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Preliminary programme:

- Day 1: Thursday 10th May

08:00 Bus transport from Sun Parks to SCK•CEN

08:30 Welcome (H. Klein, IAP and M. Giot, ENEN)

09:00 Basic concepts of transverse particle dynamics with numerical examples
J.L. Biarotte, IPN Orsay

10:30 Coffee break

11:00 Fundamentals of RF-superconductivity
H. Podlech, IAP Frankfurt

12:30 Lunch

13:30 Technology of superconducting cavities
P. Pierini, INFN, Milano

15:00 The physics of ion sources
J. Arianer, IPN Orsay

16:30 Welcome reception

17:30 Bus transfer from SCK•CEN to SunParks

- Day 2: Friday 11th May

08:00 Bus transport from Sun Parks to SCK•CEN

08:30 Student presentations (6x)

10:30 Coffee break

11:00 Student presentations (6x)

13:00 Lunch

14:00 Conclusions

15:00 Adjourn

Who should attend?

This course, the fourth of a series of ten courses organised over a period of 4 years, is primarily designed for PhD students and Postdocs involved in the IP EUROTRANS even if they are not on the pay-roll of the project, and accessible as well to those involved in the projects EUROPART and RED-IMPACT. The number of participants is limited to about 20 participants.

An active participation of the PhD students and Postdocs is required. Therefore, when applying, the participants should submit a short abstract (15 to 20 lines) of a presentation related to their work (at this stage: a progress report). A small grant of €135, distributed by the organizer, will help the students whose presentation has been selected by the organizer, to finance their accommodation expenditures.

Connection to HPPA5

During the same week, from Sunday 6th May until Wednesday 9th May 2007, SCK•CEN hosts the Fifth International Workshop on the Utilisation and Reliability of High Power Proton Accelerators (<http://www.nea.fr/html/science/hpa5/index.html>). This workshop is organised by OECD/NEA and co-sponsored by Ion Beam Applications (IBA) sa. Students are invited, and indeed encouraged, to participate in this workshop as well. There is no participation fee.

Accommodation

For the HPPA5 workshop, accommodation has been foreseen at the Sun Parks resort in Mol and this option is also open for students attending the ITC-4 course. More information on rooms and reservation can be found at the HPPA5 website <http://www.nea.fr/html/science/hpa5/index.html>. Bus transport is foreseen in the morning and evening to and from SCK•CEN.

PhD students are also welcome to stay in the SCK•CEN dormitory (small but furnished room, shared kitchen). The price for one week is €92 (bed sheets included but no towels or daily room cleaning). For reservation of an SCK•CEN dormitory room, please contact Mrs Nora Lemmens (nora.lemmens@sckcen.be or by phone +32 14 33 23 74). The number of available rooms is limited!

Lunch can be taken in the cafeteria (approx €6 without drinks) and dinner at the SCK•CEN Club House amounts to about €10 without drinks (€17 with drinks included).

How to apply?

Please fill in the attached application form and send it electronically to:

Mrs. Nadia NOWACKI
Seminar Organizer
The European Nuclear Education Network Association (ENEN)
Commissariat à l'Energie Atomique / Saclay
INSTN/UEIN - Bld 395
F-91191 GIF-SUR-YVETTE Cedex
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Tel. + 33 1 69083092, Fax. + 33 1 69087782
sec.enen@cea.fr
www.enen-assoc.org

with a copy to the Organizer, Prof. em. Dr. H. Klein (horst.klein@iap.uni-frankfurt.de), and the Local Organizer, Dr. Ir. Gert Van den Eynde (gert.van.den.eynde@sckcen.be).

Deadline for application:

Application should be mailed before the 31th March 2007.

Applicants will be informed of their acceptance at the beginning of week 14 the latest.

APPLICATION FORM

Name:

First Name:

Date and place of birth:

Institution:

Present status (PhD student, assistant...)

Link with IP-EUROTRANS, or another project:

Address for further contacts:

Arrival and departure dates:

Stays in: Sun Parks / SCK•CEN Dormitory (mark your choice)

Title of proposed presentation:

Annex: abstract of the proposed presentation