The Abdus Salam International Centre for Theoretical Physics

Workshop on Nuclear Data for Science and Technology:Materials Analysis

Organizer(s): M. Herman, N. PaverLocal Organizer: N. Paver
Trieste - Italy, 19 - 30 May 2003

Venue: Adriatico Guest House Kastler Lecture Hall

Final programme

Monday, 19 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 09:30	(Room: Adriatico Guest House (Lower Level 1)) **REGISTRATION**
09:30 - 11:00	**ADMINISTRATIVE MATTERS AT ENRICO FERMI BUILDING** Enrico Fermi Building Operations Office
11:00 - 12:00	**OPENING AND WORKSHOP INTRODUCTION**
12:00 - 14:00	--- LUNCH BREAK ---
14:00 - 15:30	**J. Grassberger** / *Scientific Computer Section, ICTP* **Introduction to ICTP computer system**
15:30 - 16:00	--- COFFEE BREAK ---
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **P. MacLaughlin** / *IAEA, Vienna* **Exercises with ICTP computer system**

Tuesday, 20 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00	**R. Firestone** / *University of California, Berkeley* **Overview of nuclear data**
10:00 - 10:30	--- COFFEE BREAK ---
10:30 - 12:00	**R. Firestone** / *University of California, Berkeley* **Overview of nuclear data**
12:00 - 14:00	--- LUNCH BREAK ---
14:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **R. Firestone** / *University of California, Berkeley* **Exercises: Isotope Explorer, PGAA Viewer Internet: Table of Radioactive Isotopes**

Wednesday, 21 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00	**O. Schwerer** / *IAEA, Vienna* **IAEA Nuclear Data Services**
10:00 - 10:30	--- COFFEE BREAK ---
10:30 - 12:00	**O. Schwerer** / *IAEA, Vienna* **IAEA Nuclear Data Services**
12:00 - 14:00	--- LUNCH BREAK ---
14:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **O. Schwerer** / *IAEA, Vienna* **Exercises on nuclear data retrieval**

Thursday, 22 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00	**G. Molnar** / *Institute of Isotope & Surface Chemistry, Budapest* **Prompt gamma activation analysis**
10:00 - 10:30	--- COFFEE BREAK ---
10:30 - 12:00	**G. Molnar** / *Institute of Isotope & Surface Chemistry, Budapest* **Prompt gamma activation analysis**
12:00 - 14:00	--- LUNCH BREAK ---
14:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) **G. Molnar** / *Institute of Isotope & Surface Chemistry, Budapest* **Exercises on PGAA**

Friday, 23 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00	**P. Robouch** / *European Commission Joint Research Centre, Geel* **Neutron activation analysis**

10:00 - 10:30 --- COFFEE BREAK ---

10:30 - 12:00 **P. Robouch** / *European Commission Joint Research Centre, Geel*
Neutron activation analysis

12:00 - 14:00 --- LUNCH BREAK ---

14:00 - 17:30 (Room: Adriatico Guest House Informatics Lab.)
P. Robouch / *European Commission Joint Research Centre, Geel*
Exercises on Quantitative analysis, error budget

Monday, 26 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00 **I. Vickridge** / *Université Paris VI et VII, Paris*
Overview of data needs for Ion Beam Analysis

10:00 - 10:30 --- COFFEE BREAK ---

10:30 - 12:00 **I. Vickridge** / *Université Paris VI et VII, Paris*
Stopping powers and ranges

12:00 - 14:00 --- LUNCH BREAK ---

14:00 - 15:30 **PARTICIPANTS PRESENTATIONS**

15:30 - 17:30 (Room: Adriatico Guest House - Eklund Informatics Lab (Lower Level 1))
I. Vickridge / *Université Paris VI et VII, Paris*
Exercises with the SRIM code

Tuesday, 27 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00 **A. Gurbich** / *Institute of Physics and Power Eng., Obninsk*
Physics of the interaction of charged particles with Nuclei

10:00 - 10:30 --- COFFEE BREAK ---

10:30 - 12:00 **A. Gurbich** / *Institute of Physics and Power Eng., Obninsk*
Differential cross sections for elastic scattering of protons and helions from light nuclei

12:00 - 14:00 --- LUNCH BREAK ---

14:00 - 17:30 (Room: Adriatico Guest House - Eklund Informatics Lab (Lower Level 1))
A. Gurbich / *Institute of Physics and Power Eng., Obninsk*
Exercises (to be defined with Gurbich)

Wednesday, 28 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00 **M. Mayer** / *Max-Planck-Institut fuer Plasmaphysik, Garching*
NRA

10:00 - 10:30 --- COFFEE BREAK ---

10:30 - 12:00 **M. Mayer** / *Max-Planck-Institut fuer Plasmaphysik, Garching*
RBS

12:00 - 14:00 --- LUNCH BREAK ---

14:00 - 15:30 (Room: Adriatico Guest House - Eklund Informatics Lab (Lower Level 1))
M. Mayer / *Max-Planck-Institut fuer Plasmaphysik, Garching*
Exercise Analyzing RBS spectra

15:30 - 17:30 (Room: Adriatico Guest House - Eklund Informatics Lab (Lower Level 1))
M. Mayer / *Max-Planck-Institut fuer Plasmaphysik, Garching*
Exercise Analyzing NRA spectra

Thursday, 29 May 2003 (Room:Adriatico Guest House Kastler Lecture Hall)

08:30 - 10:00 **D. Cohen** / *ANSTO, Menai (Australia)*
PIXE

10:00 - 10:30 --- COFFEE BREAK ---

10:30 - 12:00 **D. Cohen** / *ANSTO, Menai (Australia)*
PIXE

12:00 - 14:00 --- LUNCH BREAK ---

14:00 - 17:30 (Room: Adriatico Guest House - Eklund Informatics Lab (Lower Level 1))
D. Cohen / *ANSTO, Menai (Australia)*
Exercise locating data for PIXE

Friday, 30 May 2003

08:30 - 10:00 (Room: Adriatico Guest House - Eklund Informatics Lab (Lower Level 1))
I. Vickridge / *Université Paris VI et VII, Paris*
Exercise IBA Toys and Internet resources

10:00 - 10:30 --- COFFEE BREAK ---

10:30 - 12:00 (Room: Adriatico Guest House Kastler Lecture Hall)
MEETING WITH PARTICIPANTS - WORKSHOP EVALUATION CLOSING