

## Scientific Programme

### Sunday, September 30<sup>th</sup>

17:30-18:30 REGISTRATION

18:30-21:00 *Welcome Reception*

### Monday, October 1<sup>st</sup>

7:30-8:30 Bus transport Padova-LNL

8:30-9:30 REGISTRATION

#### **SESSION: Opening**

9:30-10:30 **Welcome address**

10:30-11:00 *Coffee break*

#### **SESSION: Physics at low medium energy**

*Chair: Mark ROBERTS (Woods Hole Oceanographic Institution)*

11:00-11:30 **The European Collaboration for Stable Ion Beams - ECOS**

F. AZAIEZ, *Institut de Physique Nucléaire d'Orsay, CNRS, Orsay, France*

11:30-12:00 **Medium-High Energy nuclear Physics at LNL**

C.A. UR, *INFN Padova, Italy*

12:00-12:30 **Interdisciplinary Physics with Small Accelerators at LNL: status and perspectives**

V. RIGATO, *INFN LNL, Legnaro, Italy*

12:30-13:00 **SPES**

G. PRETE, *INFN LNL, Legnaro, Italy*

13:00-14:00 *Lunch*

#### **SESSION: Laboratory report 1**

*Chair: Scott MCMASTER (McMaster University)*

14:00-14:30 **The Munich MP-Tandem Status**

L. BECK, *Maier-Leibnitz-Laboratorium / Beschleunigerlabor, Garching, Germany*

14:30-15:00 **Refurbishment of the Electrostatic Accelerators of iThemba LABS**

L. CONRADIE, *iThemba LABS, Cape Town, South Africa*

15:00-15:30 **Nuclear Synthesis on Ordered Crystal Target with Participation of Monochromatic Beams of Light or Middle Isotopes**

S. BARTALUCCI, *INFN LNF, Frascati, Italy*

15:30-16:00 *Coffee break*

**SESSION: Laboratory report 2****Chair: Sundeep CHOPRA** (*Inter University Accelerator Centre*)

- 16:00-16:30 **Tandem-ALPI-PIAVE complex**  
D. CARLUCCI, *INFN LNL, Legnaro, Italy*
- 16:30-17:00 **LNL Low Energy accelerators**  
A. LOMBARDI, *INFN LNL, Legnaro, Italy*
- 17:00-17:30 **Status and Recent Upgrades of the Tandem Accelerator Facility at RBI Zagreb**  
D. SPANJA, *Rudjer Boskovic Institute, Zagreb, Croatia*
- 17:30-18:30 Bus transport LNL-Padova

**Tuesday, October 2<sup>nd</sup>**

- 8:00-9:00 Bus transport Padova-LNL

**SESSION: Laboratory report 3****Chair: Lowry CONRADIE** (*iThemba LABS*)

- 9:00-9:30 **Status report on the Accelerator Mass Spectrometry systems at the Woods Hole Oceanographic Institution**  
M. ROBERTS, *Woods Hole Oceanographic Institution, Woods Hole, USA*
- 9:30-10:00 **Negative and Positive Ion beams and Sources at INFN-LNL**  
F. SCARPA, *INFN LNL, Legnaro, Italy*
- 10:00-10:30 **TAMIA, a Versatile Tool for Materials Analysis**  
P. TIKKANEN, *University of Helsinki, Finland*
- 10:30-11:00 *Coffee break*

**SESSION: Laboratory report 4****Chair: Ovidiu TOADER** (*University of Michigan*)

- 11:00-11:30 **Ion Accelerator at IUAC, New Delhi: Up-gradation and Trouble shootings**  
S. CHOPRA, *Inter University Accelerator Centre, New Delhi, India*
- 11:30-12:00 **IFMIF**  
A. PISENT, *INFN LNL, Legnaro, Italy*
- 12:00-12:30 **Modernization of Control Systems for 5 MV Tandem Accelerator**  
H. TYRVÄINEN, *Tapani, Helsinki, Finland*
- 12:30-13:00 **Bayesian approach to accelerator control**  
P. TIKKANEN, *University of Helsinki, Finland*
- 13:00-14:00 *Lunch*
- 14:00-16:45 **LNL Visit**
- 16:45-17:15 *Coffee break*
- 17:15-18:15 Bus transport LNL-Padova
- 18:40 **Visit to Cappella degli Scrovegni (Piazza Eremitani)**

**Wednesday, October 3<sup>rd</sup>**

8:00-9:00 Bus transport Padova-LNL

**SESSION: Technical report 1****Chair: Pertti TIKKANEN (University of Helsinki)**

- 9:00-9:30 **The Development of Vacuum System Engineering Guidelines at ANSTO**  
D. GARTON, *Australian Nuclear Science and Technology Organisation, Sydney, Australia*
- 9:30-10:00 **New Radiation Safety System for 5 MV Tandem Accelerator**  
H. TYRVÄINEN, *Tapani, Helsinki, Finland*
- 10:00-10:30 **The Decompression of our 6MV EN Tandem Columns**  
C. PURCELL, *GNS Sciences, Wellington, New Zealand*
- 10:30-11:00 *Coffee break*

**SESSION: Open discussion****Chair: Jörg RÖHRICH (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH)**

- 11:00-12:00 **Round Table: Problems and solutions**
- 12:00-12:30 **Present Trends for Electrostatics Accelerators (Pelletrons)**  
G. NORTON, *National Electrostatics Corp., Middleton, USA*
- 12:30-13:00 **Installation, operational experience, beam purification techniques, and status report of the HIE-ISOLDE project**  
D. VOULOT, *CERN, Geneva, Switzerland*
- 13:00-14:00 *Lunch*
- 14:30-19:30 **Excursion**
- 19:30-23:00 **Social dinner**
- 23:00-24:00 Bus transport to Padova Hotels

**Thursday, October 4<sup>th</sup>**

8:00-9:00 Bus transport Padova-LNL

**SESSION: Technical report 2****Chair: Luigi COSENTINO (INFN LNS)**

- 9:00-9:30 **C&C Tandem**  
S. ABDELHAKIM, *Institut de Physique Nucléaire d'Orsay, CNRS, Orsay, France*
- 9:30-10:00 **MUNES project: status and perspectives of an RFQ based neutron facility in Italy**  
E. FAGOTTI, *INFN LNL, Legnaro Italy*
- 10:00-10:30 **Development of H- Ion Source for JYFL Pelletron Accelerator**  
T. KALVAS, *University of Jyväskylä, Department of Physics, Jyväskylä, Finland*
- 10:30-11:00 *Coffee break*

**SESSION: Technical report 3***Chair: Ludwig BECK (Maier-Leibnitz-Laboratorium / Beschleunigerlabor)*

- 11:00-11:30 **LHC Operation**  
R. GIACHINO, *CERN, Geneva, Switzerland*
- 11:30-12:00 **Development of Ion Beam Related Research Around 1.7 MV Pelletron in Jyväskylä During Five Years of Operation**  
M. LAITINEN, *University of Jyväskylä, Department of Physics, Jyväskylä, Finland*
- 12:00-12:30 **The Tandem accelerator at LNS and diagnostic aspects of the radioactive beams**  
L. COSENTINO, *INFN LNS, Catania, Italy*
- 12:30-13:00 **Labec activity report**  
L. GIUNTINI, F. TACCETTI, *INFN Firenze, Italy*
- 13:00-14:00 *Lunch*

**POSTER SESSION***Chair: Martha MEIGS (Oak Ridge National Laboratory)*

- 14:00-15:30 *Poster session*
- 15:30-16:00 *Coffee break*
- 16:00-17:00 *Poster session*

**SESSION: Technical report 4***Chair: Said ABDELHAKIM (Institut de Physique Nucléaire d'Orsay, CNRS)*

- 17:00-17:30 **Japan Earthquake of 2011 and the Effect on Electrostatics Accelerators**  
G. NORTON, *National Electrostatics Corp., Middleton, USA*
- 17:30-18:30 *Bus transport LNL-Padova*

**Friday, October 5<sup>th</sup>**

- 8:00-9:00 *Bus transport Padova-LNL*

**SESSION: Closing session***Chair: Mark ROBERTS (Woods Hole Oceanographic Institution)*

- 9:00-9:30 **Sulphur Hexafluoride as a Stripper Gas for Tandem Accelerators**  
D. GARTON, *Australian Nuclear Science and Technology Organisation, Sydney, Australia*
- 9:30-10:30 **Open discussion: SNEAP Future**
- 10:30-11:00 *Coffee break*

**SESSION: Closing session***Chair: David GARTON (Australian Nuclear Science and Technology Organisation)*

- 11:00-11:30 **Closing remarks**  
J. MCKAY
- 11:30-13:00 **Closure**  
D. CARLUCCI, A. LOMBARDI, *INFN LNL, Legnaro, Italy*
- 13:00-14:00 *Lunch*
- 14:30-15:30 *Bus transport LNL-Padova*