

# NIBS2012 – Third Announcement and Call for Papers

## Third International Symposium on Negative Ions, Beams and Sources

September 3 – 7, 2012  
University of Jyväskylä, Jyväskylä, Finland

The Third International Symposium on Negative Ions, Beams and Sources — NIBS2012 — will be held in Jyväskylä, Finland, on September 3<sup>rd</sup> – 7<sup>th</sup>, 2012. The symposium will be organized by University of Jyväskylä.

### Scope and Topics

The aim of the symposium is to exchange information on science, technology, engineering, and general experience in all areas related to negative ions by providing a discussion forum. Contributions from a wide variety of scientific fields, such as fusion, accelerator, material science, and the other fields including industrial application, are welcomed. The main topics are:

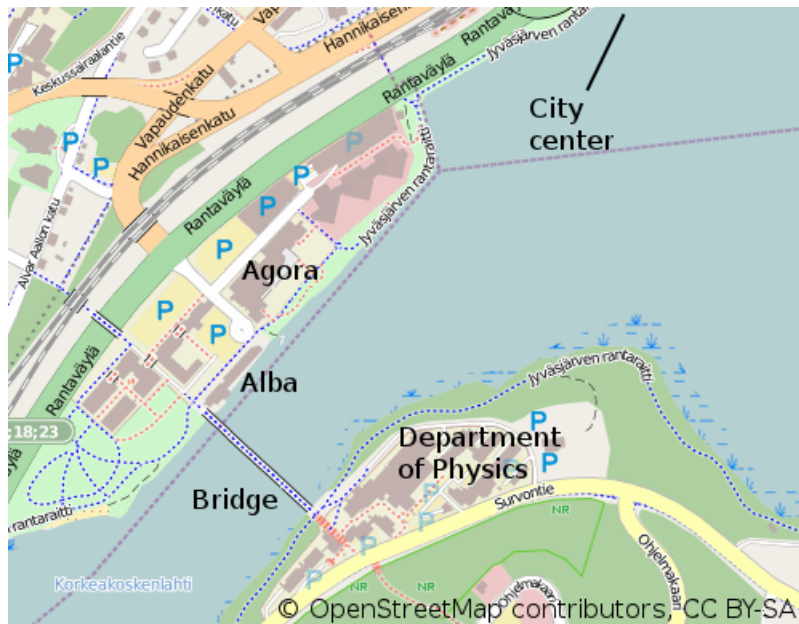
- 1. Fundamental processes and modeling**
- 2. H<sup>-</sup> and D<sup>-</sup> sources for fusion, accelerators and other applications**
- 3. Negative ion sources of heavy ions**
- 4. Beam formation and low energy transport**
- 5. Beam acceleration and neutralization**
- 6. Beamlines and facilities**

### Web Site

<http://www.nibs2012.jyu.fi/>

### Venue

The symposium is organized in one of the university campus areas located by the lake Jyväsjärvi in the Agora building (street address Mattilanniemi 2), which is situated within a walking distance of the city center. The hotel Alba is located next to the Agora building. See the attached map and aerial view.



Agora Building

Hotel Alba

Department of Physics & Accelerator Laboratory

Jyväskylä is located in Central Finland in one of the lake districts of the country some 270 kilometers north of Helsinki. There are connecting flights to Jyväskylä (airport code JYV). It is also possible to travel from Helsinki by train, or bus.

Those who arrive at Jyväskylä airport are strongly encouraged to contact taxi dispatch service at +358-100-6900 prior to their arrival to ensure immediate transportation from the airport to the hotel. This is especially important for those arriving at night. We recommend making the phone call when transiting in Helsinki. The cost of taxi will be approximately 35 EUR.

For further travel information the participants are encouraged to visit the symposium website.



## Visas

Finland is part of the Schengen area. The necessary travel documents are defined by the Schengen Agreement and they depend on the citizenship of the traveller. Please check your home country on the list of The Ministry for Foreign Affairs of Finland. As a general rule, foreign nationals who require an entry visa are requested to apply for one from the diplomatic mission that represents Finland in their home country at least two weeks before planned traveling date (at least one month recommended). The visa application should include an invitation letter, which can be obtained after the payment of the registration fee is confirmed.

Contact the local organizing committee at [nibs2012@jyu.fi](mailto:nibs2012@jyu.fi) for issuing the invitation letter.

## Scientific Program

The symposium will consist of contributed papers in oral and poster sessions to encourage close and intense discussion. Draft of the symposium program (subject to change) can be found below. Detailed program can be found from the symposium website.

	September 3 Monday	September 4 Tuesday	September 5 Wednesday	September 6 Thursday	September 7 Friday
8:00	Registration				
9:00	Opening	S. Mochalskyy M. Bacal D.B. King M. Wada	K. Tsumori M. Cavenago A.L. Sanin T. Shibata	M. Bandyopadhyay P. Sonato R. McAdams J. Zacks	JYFL Accelerator Laboratory Tour
9:20	F. Taccogna D. Wunderlich K. Miyamoto				Coffee
10:40	Coffee	10:45	10:45	10:45	10:30
11:10	M.P. Stockli J.A. Lettry D.S. Bollinger R. Gebel	11:10	11:15	11:15	11:30
12:55	Lunch	13:00	13:00	12:55	12:00
14:25	W. Kraus Y. Takeiri G. Fubiani	14:30	15:20	14:20	13:00
15:50	Coffee	15:45	Excursion to Varjola Farm	15:40	14:15
18:30	Welcome reception	18:30		17:15	15:30
					15:50

## Presentation information

### *Oral*

A time of 20 minutes will be reserved for oral presentations with an additional 5 minutes for questions. Selected presentations will have an extended time of 25+5 minutes.

The organisers will provide a Windows computer with Microsoft Powerpoint 2007 and Adobe Acrobat X for presenting slide shows.

The slides for the oral presentations should be given to the organisers at the preview room (2nd floor, room AgDelta) at least one session before the scheduled presentation time.

### *Poster*

The poster session is organized on Tuesday September, 4<sup>th</sup> in the main hall of the Agora building. Poster boards with 97x135 cm of space (fits A0 in portrait orientation) will be made available for mounting the posters. The posters should be mounted on Tuesday morning and unmounted by Wednesday morning.

## Paper submission and symposium proceedings

The authors of the accepted abstracts are encouraged to write contributions to the symposium proceedings book. The manuscripts for the proceedings are submitted through the on-line submission system before the start of the



symposium. The on-line submission interface can be accessed from <http://www.nibs2012.jyu.fi/publication.html>. **The deadline for the submission of the manuscripts for the proceedings book is the 2 September 2012.**

The contributions will be published in AIP conference proceedings, after peer-review process. Submitted papers should be an original work associated with the symposium topics, which has not been previously published. The AIP single column 6x9 inch style will be used in the proceedings. We kindly ask the authors to use the templates available at <http://www.nibs2012.jyu.fi/publication.html> for preparing the paper. **The maximum length of the paper will be 8 pages for poster and 10 pages for oral contributions.**

Authors publishing in the proceedings are kindly asked to review papers submitted for the proceedings. **The review deadline is 23 September 2012.**

**The book of the symposium proceedings printed in black and white** will be distributed to all registered participants to the address they provide at the time of registration. An online version will be published simultaneously with the print book. Please **note that color graphics will be available only in the online version.**

### Social program and technical tour

A welcome reception hosted by the City of Jyväskylä is organized in the Agora building on Monday evening, 3<sup>rd</sup> of September.

A half-day excursion to Varjola farm takes place on Wednesday afternoon, 5<sup>th</sup> of September. Participants can explore traditional Finnish landscape and are offered a possibility to experience white-water rafting and a wire gliding across the rapids.

The tour includes a dinner and a possibility for enjoying traditional Finnish smoke sauna. The sauna fits a group of about 20 people, so a pre-reservation is necessary. The reservation can be made at the conference registration desk.



The conference banquet in a local restaurant, Savutuvan Apaja, is scheduled for Thursday, 6<sup>th</sup> of September. The symposium participants will board a ship

directly from the conference venue for a short cruise (approx. 1.5 hours) on Lake Päijänne to Savutuvan Apaja. Bus transportation back to the hotels will be arranged after the banquet. For more information on the cruise and the banquet venue can be found from <http://www.paijanne-risteilythilden.fi/main> and <http://www.savutuvanapaja.fi/>



The conference participants are invited join a tour of the JYFL accelerator laboratory on Friday, 7<sup>th</sup> of September. The laboratory performs research on accelerator based nuclear, material and applied physics at the highest international level. The tour will be followed by a physics department colloquium open for conference participants as well as staff and students of the physics department.

## Weather

In September, the weather in central Finland may vary from clear and sunny to crisp and rainy. The long term average daytime temperature in the beginning of September is around +10 °C.

## Summary of important dates

<b>Manuscript submission</b>	<b>2 September</b>
<b>NIBS2012</b>	<b>3 - 7 September</b>
<b>Manuscript reviews due</b>	<b>23 September</b>

## Satellite meeting

### 2012 By-Invitation-Only Workshop on Performance Variations of H- Sources (PVH-12)

The workshop aims to assess the performance variation of H<sup>-</sup> production systems under operational conditions. This will include start-ups and techniques to minimize variation or to consistently maximize performance. It will include a discussion of unresolved issues, especially with regard to the consistency of the performance.

The workshop will meet in Jyväskylä, Finland, on Saturday morning, September 8, 2012, following NIBS2012.

This workshop is "by invitation only" to create a confidential atmosphere favoring an intense exchange and open discussion of the encountered performance variations, their extent, their root causes, as well as the results of experiments aiming to identify their causes or to reduce their extent.

The workshop is expected to close around 13:00 (1 pm). No registration fee is anticipated. No financial support is available.

If you would like to participate and you have not received an invitation, please send an e-mail to one of the organizers, explaining your reason for your interest.

Martin Stockli, Oak Ridge National Laboratory, [stockli@ornl.gov](mailto:stockli@ornl.gov)

Dan Faircloth, Rutherford Appleton Laboratory, [dan.faircloth@stfc.ac.uk](mailto:dan.faircloth@stfc.ac.uk)

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## Sponsors

The 3<sup>rd</sup> International Symposium on Negative Ions, Beams and Sources is sponsored by D-Pace Inc., University of Jyväskylä, the City of Jyväskylä and federation of Finnish learned societies.



FEDERATION OF FINNISH LEARNED SOCIETIES

<http://www.dehnel.com/>

<https://www.jyu.fi/en>

<http://www.jkl.fi/lang/>

<http://www.tsv.fi/engl/index.html>

## Working Language

The working language of NIBS2012 is English.

## International Program Committee

Y. Belchenko, INP, Russia  
D. Boilson, Iter organisation, France  
D. Faircloth, STFC, UK  
G. Fubiani, LAPLACE/CNRS/Univ. of Toulouse, France  
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## Local Organizing Committee

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## Contact Information

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Information on Registration and Accommodation:

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