



## First Announcement

8<sup>th</sup> International Symposium on  
Negative Ions, Beams and Sources  
3<sup>rd</sup> – 7<sup>th</sup> October 2022, Padova, Italy

The 8<sup>th</sup> International Symposium on Negative Ions, Beams and Sources – NIBS2022 – will be hosted by Consorzio RFX, and will run from October 3 to October 7 in Padova, Italy, at the Orto Botanico venue, located in the city centre of Padova.

Due to the situation related to COVID -19, under the current circumstances and taking into account the recommendations and guidelines for hosting major events, we would like to inform you that we plan on hosting NIBS2022 as a hybrid event. Participation in person is preferred, but it is also possible to attend the Symposium by the internet; the choice being taken during the registration. *If a sufficient number of registrations will not be reached, the conference will be held on-line and the excess fees will be reimbursed.* This series of NIBS symposia is conducted biannually starting 2008 and welcomes contributions on any aspect of the production and use of negative ions. The symposium is also an ideal setting to establish contacts and discuss the latest developments in the field of negative ion research.

Web Site <https://indico.cern.ch/event/1098715/>

Attendees in person will visit the Conference Desk at Orto Botanico, which will be opened on Monday morning; they will be welcomed during the Conference with

- Welcome Reception
- Social Dinner
- Social Excursion
- Guided tour of Botanical Garden, and Consorzio RFX – ITER Neutral Beam Test Facility.

*The Russian military assault on Ukraine has profoundly shocked knowledge institutions in Italy. This is a direct assault on liberty and democracy, which are the fundamental values undergirding academic freedom and cooperation. In response, all formal and institutional partnerships with educational and knowledge institutions in the Russian Federation and Belarus have been immediately suspended until further notice. At present, this means that we regretfully cannot accept conference registrations from scientists affiliated to a Russian or Belarussian institution.*

### Topics

1. Fundamental processes and modeling
2. H<sup>-</sup> and D<sup>-</sup> sources for fusion and accelerators
3. Negative ion sources for industrial and medical applications
4. Beam formation and transport
5. Beam acceleration and neutralization
6. Beam lines and facilities
7. Applications

### Scientific Program and Publication

The symposium will consist of reports in oral and poster sessions to encourage close contact and discussion between researchers. The contributed papers that will be accepted after the usual peer-review

process will be published. The program and proceedings of previous Symposium NIBS2020 are available free at AIP Conference Proceedings vol. 2373 (<https://aip.scitation.org/toc/apc/2373>).

### Important Dates

Registration and Abstract Submission Open	1 June 2022
Abstract Submission Deadline	30 June 2022
Notification of Abstract Acceptance	15 July 2022
Registration Deadline	30 July 2022
Paper Submission Deadline	03 October 2022
Symposium Start	03 October 2022
Symposium End	07 October 2022
Paper Review Deadline	07 November 2022

### Venue

The Symposium will be held at the [Orto Botanico di Padova](#) in the new spaces of the [Garden of Biodiversity](#), which since 2014 is part of Orto Botanico, the oldest botanical garden in the world and today a UNESCO World Heritage Site.

This important site, belonging to the University of Padova, is located in the city centre between the Basilica of S. Antonio, the Prato della Valle and the Church of S. Giustina. It is not far from the famous Padova Squares, reachable with a nice 15-minute walk in the pedestrian area.

Venue address:

Orto Botanico - Padova, Italy

Via Orto Botanico, 15 – 35123 Padova, Italy

GPS: 45.399444, 11.879807

### Format of Presentations

The Symposium Program includes oral and poster presentations. Contributed papers may be selected either for oral or poster presentation.

Oral presentations can be short or long in duration. The slides of the oral presentations will be uploaded onto the online conference platform.

Poster presenters are expected to prepare a poster in A0 portrait format, which can be uploaded onto the online conference platform. Conference participants will be able to view the posters at any time during the conference and for at least one month after. Each poster presenter will be able to present her/his poster in a regular online session during the time slot of the poster session to which the contribution is assigned. There will be 2 poster sessions in total, each lasting about 2 hours.

The working language of the Symposium is English.

### NIBS Award

The NIBS Award will be presented for innovative and significant recent achievements in the fields of the physics, theory, technology and/or applications of sources, low energy beam transport, and/or diagnostics of negative ions. The International Program Committee chooses the winning nomination and the award is announced at the conference banquet. The NIBS Award is donated by [D-Pace Inc.](#), Nelson, BC, Canada. Additional information will be available at the Award page of the NIBS site [NIBS Award](#).

### Online Registration Information

Online registration for the symposium will be opened from 1 June 2022 on our website. Please, fill in the corresponding form: [Registration · Indico \(cern.ch\)](#) for Attendee registration and [Call for Abstracts · Indico \(cern.ch\)](#) for Abstract submission. In order to register as a student, you will need to provide official proof of your student status (in English) sending it by e-mail to [NIBS22@igi.cnr.it](mailto:NIBS22@igi.cnr.it).

## Visa

If you need a visa, please fill in the paragraph **Visa Support** in the [Registration Form](#) on our website. Please see all information on the webpage [Visa support](#). The invitation letter will be sent to you by email.

## Symposium Fee

The Symposium Fee is 550€ for regular participants, 250€ for students and 100€ for remote participation. Payment can be done either by **PayPal** or **Bank Transfer**, see the webpage [Fees and payments](#). A receipt for the meeting fee will be provided and sent by email. All attendees are requested to register through the website before **30 July 2022**. In order to register as a student, you will need to provide official proof of your student status (in English) sending it by e-mail to [NIBS22@igi.cnr.it](mailto:NIBS22@igi.cnr.it).

## Accommodation and Lunches

### Accommodation

The conference organization will not provide hotel booking. To help you in your choice, you can find on the conference website a hotel map with ranks and prices.

We can suggest [Hotel Casa del Pellegrino](#), 5 minutes walk to Conference Venue.

Please remember to book your hotel in time.

### Lunches

There is an agreement with the restaurant of the Hotel "Casa del Pellegrino" (5 minutes walk from Orto Botanico) to have lunch at a cost of € 15. Meal reservations must be made through the registration form. Payment can be performed directly to the restaurant upon presentation of the ticket delivered in advance at the Conference Desk.

## International Program Committee

- M. Bacal, UPMC, France
- Y. Belchenko, BINP, Russia
- C. Corr, Australian National University, Australia
- D. Faircloth, UKRI-STFC, UK
- G. Fubiani, LAPLACE/CNRS/Univ. of Toulouse, France
- A. Holmes, Marcham Scientific, UK
- Y. Hwang, SNU, Korea
- A. Ivanov, BINP/Novosibirsk State University, Russia
- M. Kashiwagi, JAEA, Japan
- D. Wunderlich, IPP, Germany
- J. Lettry, CERN, Switzerland
- R. McAdams, CCFE, UK
- Y. Mori, Kyoto University, Japan
- B. Schunke, ITER Organisation, France
- G. Serianni, Consorzio RFX, Italy
- M. Singh, IPR, India
- M. Stöckli, ORNL, USA
- Y. Takeiri, NIFS, Japan
- M. Wada, Doshisha University, Japan
- A. Zelenskii, BNL, USA

## Local Organizing Committee

*Consorzio RFX - Padova*

- G. Serianni **Chair**
- M. Basso **Scientific Secretary**

## Members

- V. Candeloro
- M. Cavenago
- G. Chitarin
- L. Lotto
- D. Marcuzzi
- I. Mario
- R. Pasqualotto
- C. Poggi
- E. Sartori
- B. Segalini
- M. Spolaore
- V. Toigo
- M. Ugoletti
- R. Zagorski
- B. Zaniol

## Contacts

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