

The Negative Ion Source Prize “NIBS Award”

NIBS 2014 Competition

Information and Rules

PURPOSE

The Negative Ion Source Prize, named the “NIBS Award”, donated by D-PACE Inc., Nelson, BC, Canada, is intended to recognize and encourage innovative and significant recent achievements in the fields of the physics, theory, technology and/or applications of sources, the low energy beam transport, and/or diagnostics of negative ions. The Prize rewards a recent innovation, rather than “career accomplishments”.

AWARD

The prize consists of a certificate and US \$5,000 to be presented at the NIBS 2014 Symposium on Negative Ions Beams and Sources which will be hosted by IPP Garching, Germany. The selection of the recipient(s) is made by the NIBS 2014 International Program Committee (IPC).

AWARD CRITERIA

The NIBS Prize will be presented for an outstanding recent contribution to the fields of the physics, theory, technology and/or applications of sources, the low energy beam transport, and/or diagnostics of negative ions. This contribution could be a breakthrough idea, understanding or design that leads to an ion source, or could be the ion source itself. The ion source resulting from this contribution must demonstrate significantly improved levels of performance over the currently-established state-of-the-art. The contribution should have been published in a journal or in proceedings of a conference that is in the public domain.

CRITERIA INTERPRETATION

Negative Ion Source:

Definition: A device producing a beam of negatively charged particles (H^- or heavier) suitable for transport to an experimental setup (e.g. atomic-, surface- or cluster physics), or to an application, such as accelerator injection, ion implantation, ion source or accelerator for a neutral beam injector, ion propulsion, etc. Critical element is formation of a beam, rather than simply plasma generation.

Demonstrated Performance:

The contribution selected must have led to the production of an actual, operating ion source (or must be the source itself). The contribution can be theoretical or experimental. However, in case of theoretical contributions, an experimental demonstration of the validity of the theory must have been done with production of a beam of sufficient quality to obtain quantitative measurements of its characteristics. The performance characteristics must be recognized (as judged by

the Prize Selection Committee) as a significant improvement over the currently-established state-of-the-art.

Publication:

The contribution should have been published in a journal or in proceedings of a conference that is in the public domain. Primary supporting publications should have been published within the past 5 years; not earlier than January 1, 2009 for this cycle. Laboratory design notes, internal technical notes, or other written material, do not qualify as primary references, but may be submitted to support other publications. Full and open disclosure is necessary to the extent that a potential user could clearly make use of the concept or source design for which the award is given. More than one article may be submitted (together) to satisfy this requirement; for example, an article describing the principle plus another article describing the performance.

ELIGIBILITY

Nominations are open to candidates of any nationality for work done at any geographical location. The award may be shared between (a maximum of four) persons contributing to the same accomplishment.

A nomination that was not selected for receiving the Award in a previous round can be updated and resubmitted for the present round, provided it complies with the Rules established for the present round of the competition.

DISCLOSURE

The Prize Administrators may release the names of entrants and a list of publications related to an entry if requested by a third party. Unpublished supporting material will not be disclosed nor will the names of persons supporting a nomination. Discussion regarding individual entries, scoring, etc. is regarded as confidential and will not be disclosed.

NOMINATION AND SELECTION PROCESS

The nomination process will be conducted in two phases. A Preliminary Nomination can be submitted by anyone working on negative ion sources or negative ion accelerators or a related field to the Prize Administrator, who will forward these to the IPC for evaluation.

The IPC will select from the Preliminary Nominations a slate of two or three candidates, and invite the nominator of the candidate to see to the preparation of a Full Nomination Package, following the rules and procedures outlined below.

The selection of the winning candidate will be made by the IPC, in a process conducted by e-mail, or if necessary by phone or video conference, managed by the Prize Administrator.

Preliminary Nomination:

The Preliminary Nomination shall consist of a one- or at most two-page document that makes the case for why this Nominee should receive the Award. It should include references to recent publications of the Nominee.

Full Nomination Package:

The Full Nomination package must be submitted by a professional (physicist, engineer or management person) familiar with the candidate(s) and his/her/their contribution, and can speak to the significance of the contribution. Every nomination must have a Sponsor who is a member of the IPC for this conference cycle.

The nomination package shall include:

- A cover page including the name, title and affiliation of the candidate(s), a short title of the contribution for which the award is sought, and the list of relevant publications. Include on this page the name and contact information for both the Submitter of the nomination and the IPC Sponsor.
- A statement, signed by the Submitter, describing the contribution of the Nominee to the physics or technology of the field.
- Full copies of relevant publications that have appeared in journals or widely-available conference proceedings. Note: Contributions to the present conference cannot serve as primary sources, as these proceedings have not yet been published, unless the NIBS IPC agrees otherwise.
- A signed statement of support by the Sponsor from IPC. (The statement is not necessary if the Sponsor is the Submitter.)

NOTE: All documents must be submitted in English, any papers in another language must be accompanied by a full translation into English.

SUBMISSION PROCEDURE

Preliminary Nomination:

The Preliminary Nomination can be submitted as an e-mail message, or as a .pdf attachment to an e-mail message, sent to the Prize Administrator:

The NIBS Prize administrator: Dr Ronald S Hemsworth

Ronald.Hemsworth@iter.org

Full Nomination Package:

Only electronic submission will be accepted.

Documents must be in .pdf format (only!) and can be made either as e-mail attachments or as web downloads. The package must include all of the items listed above, including scans of the Submitter and Sponsor letters with signatures. Submitter must be available to work with the Prize Administrator to solve any formatting and transmission problems. Please note, all documents must be in .pdf format! Fax submissions will not be accepted.

Document files, or URL of download site, should be sent to

Dr R S Hemsworth: Ronald.Hemsworth@iter.org

DEADLINES

Preliminary Nomination:

Deadline for submission of Preliminary Nominations is to be the same date as for abstract submission for the NIBS conference.

Notification of acceptance and invitation to submit Full Nomination Package will be made within 3 weeks.

Full Nomination Package:

Deadline for submission of Full Nomination Package is to be 1 month after the NIBS abstract submission date.

CHANGES TO PROCEDURES

While not anticipated, changes to the above Rules and Procedures can be made by the Prize Administrator, after full consultation with, and agreement by the IPC, and the Prize Donor.