



May 2nd, 2012

To: Users of TRIUMF's Subatomic Physics Facilities
TRIUMF Subatomic Experiments Evaluation Committee Meeting

SUBJECT: NOTICE OF TRIUMF SUBATOMIC PHYSICS EEC MEETING - JULY 2012

The next meeting of the TRIUMF Subatomic Physics Experiments Evaluation Committee (SAP-EEC) will take place on:

Thursday & Friday, July 12 & 13, 2012

The DEADLINE for receipt of New Proposals and Progress Reports is firm at:

**Wednesday, June 6th, 2012
(Midnight, Vancouver time)**

Please note the Subatomic Physics Experiments Evaluation Committee will meet twice this year; the July 12 & 13, 2012 meeting and the December 2012 meeting.

As already announced in the last Call for Beam Requests from September to December we plan to run a Nb with surface ion source, a UCx target with FEBIAD source and either a TiC with surface ion source or a SiC with FEBIAD source.

If you would like to submit a proposal for review for the July 2012 meeting, please be sure to follow the instructions below and adhere to the deadline.

The Subatomic Physics EEC approval process now has two approval processes available, depending on where your proposal is at:

Letter of Intent (LoI):

- Describes the intent to carry out a certain experiment or scientific program for which a substantial extension of the facility capabilities is needed. These extensions include
 - o development of certain beams with sufficient intensities and purities
 - o new experimental capabilities, such as major new equipment or new techniques.
- LoIs should provide an estimate of the amount of beam time necessary to carry out this program. In particular for long term programs that would require large amounts of beam time it is important for TRIUMF and the EEC to be aware of such needs.

- The EEC evaluates the scientific and technical merit and judges - with input from the facility - the general feasibility of the proposed research, explicitly taking into account the approximate amount of beam time required.
- For experimental or beam production facility upgrades that have a significant impact on TRIUMF either during the upgrade or in subsequent operation a Project Charter Sheet should be submitted. The LoI and EEC report would be part of the input to the Gate Review process.
- The EEC may
 - o **endorse the LoI with high or medium priority**
 - o **not endorse** the LoI deemed technically unfeasible or if the scientific case has not sufficient merit.
- The endorsement of a LoI signals that
 - o the EEC and TRIUMF support the general experimental program proposed and expects that competitive proposals for this program will be submitted on the timeline presented in the LoI
 - o any beam development needs for the proposed program will be entered into the beam development plan (see below)
 - o the proponents are encouraged to seek funding for and complete any planned technical developments
 - o the proponents are expected to submit proposals for experimental shifts once readiness of beam(s) and experimental equipment has been established.
- Please note that the endorsement of a LoI does not guarantee the acceptance of proposals based on the developments proposed in the LoI but these proposals will be judged on their scientific merit at the time of submission and in comparison to other submissions.
- **TRIUMF management will communicate the support for an endorsed LoI to NSERC and other funding agencies, as required.**
- Once LoIs have been reviewed there is no follow-up directly related to the LoI. New proposals related to the LoI will individually obtain experiment numbers that are not connected to the LoI. Reference to the LoI can and should be made in the proposals where appropriate.

Proposal:

- Proponents ask for allocation of a number of shifts for a clear scientific case on the basis of the best estimate of achievable beam intensities.
- Beam should be expected with reasonable certainty to be available within 2 years, i.e. no major new developments needed.
- Technically the experiment should be convincingly mature to successfully run. New equipment should have been successfully commissioned. If it uses only well-established standard technologies an explicit commissioning may not be needed.
- EEC will review proposals and either

- **approve** with **high or medium priority** and allocate a certain number of shifts (please note that the medium-high category will be abandoned)
- **not approve** if deemed technically unfeasible, if the scientific case has not sufficient merit, or if beam time is limited and the scientific case is less compelling than that of other proposals submitted
- **defer** if the EEC feels that the information presented is not sufficient or the EEC feels it has not sufficient expertise to judge the case and as a result recommends that an external expert review is conducted.
- **After 2 years** the proponents must submit a status report if they have not run the experiment and the proposal expires unless the EEC sees a special reason to keep it active.

RIB beam developments:

The Beam Priorities Committee is in the process of developing a comprehensive **Beam Development Plan** based on

- the EEC recommendations for approved proposals and endorsed LoIs
- the technical difficulties associated with the developments
- a mid-term strategy for the development of new target materials, ion sources, purification methods, as well as the target module refurbishing plan.

RIB beam developments and yield measurements will be performed on the basis of the plans agreed upon by the Beam Priorities Committee. Written reports on the measured yields will be submitted to the chair of the Beam Priorities Committee. The measured yields will be posted in the ISAC yield database.

The Beam Priorities Committee will report regularly to the SAP-EEC on the achievements of the beam developments. The success of developments will be measured against the beam development plan. Reports on beam developments will also be given to the TUG at their AGM.

Based on the major review of Proposals and LoIs in December 2011 by the SAP-EEC the Beam Priorities Committee has reviewed on May 2, 2012 the short and mid-term beam development needs, in particular for the remainder of this year.

For next year major development efforts will concentrate on the implementation of a RILIS-RFQ system to suppress surface ionized contaminants, the further development of clean high-mass accelerated RIBs, as well as the development of high intensity Ne beams.

The Beam Development Plan will be published online and updated regularly, at least after every SAP-EEC to include the new EEC recommendations. The first version of the Beam Development Plan will be published in May 2012.

For a list of beams available, please visit:

http://www.triumf.info/facility/research_fac/yield.php?choose=element

For New Research Proposals or Letters of Intent

Spokespersons: Before you can proceed, you must contact the Science Division office at sciencediv@triumf.ca (604-222-7438), please include the spokespersons names, contact information, and name of the experiment. The division's Administrative Assistant will issue you an experiment number. After you receive a number, you will need to be issued a Secure Access ID which you can apply for online at <https://mis.triumf.ca/identity/request/nonemployee.jsf>. If you have a Secure Access ID already, but cannot remember your username or password, please contact TRIUMF Computing at mis@triumf.ca or 604-222-7437 to have it reset.

- Proceed to the on-line submission website at <https://mis.triumf.ca/science/experiment/spokesperson/>
- Please follow the on-screen instructions, which we ask that you read carefully before beginning your submission (they can be found on the "How To Submit a Proposal" page <http://www.triumf.ca/experimental-program/sap-eec-process>).

Progress Reports

1. **Spokespersons:** Go to: <https://mis.triumf.ca/science/experiment/spokesperson/>
2. Log in to the on-line system with your Secure Access ID and password. (If you do not know your Secure Access ID and password, please contact TRIUMF Computing at mis@triumf.ca or 604-222-7437) or fill out the on-line form at <https://mis.triumf.ca/identity/request/nonemployee.jsf>
- Please follow the on-screen instructions, which we ask that you read carefully before beginning your submission (they can be found on the "How To Submit a Proposal" page <http://www.triumf.ca/experimental-program/sap-eec-process>).

Any problems or bugs during the submission process should be reported to the Science Division office at sciencediv@triumf.ca (or by telephone at 604-222-7438).

The following direct links should be helpful:

Link to Call for Submissions:

<http://www.triumf.ca/experimental-program/call-for-submissions-agendas>

Link to Guides and Forms:

<http://www.triumf.ca/experimental-program/sap-eec-process>

Link to EEC Committee Information:

<http://www.triumf.ca/experimental-program/about-subatomic-physics>

Members of the Subatomic Experiments Evaluation Committee are:

Chair: Alfredo Galindo-Uribarri – Oak Ridge National Laboratory, USA

Secretary: Petr Navratil – TRIUMF, Canada

Members: Roderick Clark – Lawrence Berkeley National Laboratory, USA
Alejandro Garcia – University of Washington, USA
Karsten Riisager – Aarhus University, Denmark
Chris Ruiz – TRIUMF, Canada
Guy Savard – Argonne National Laboratory, USA
Hendrik Schatz – NSCL Michigan State University, USA
Achim Schwenk – University of Darmstadt, Germany

Ex-officio: Reiner Kruecken – TRIUMF