

# Minutes TUEC Meeting with Jonathan Bagger and Reiner Kruecken

## October 23rd, 2014

### Participants:

Jonathan Bagger  
Reiner Kruecken

Iris Dillmann (minutes)  
Bernd Stelzer  
Rüdiger Picker  
Catherine Deibel (via telephone)  
Khayashar Ghandi (via telephone)

### Topics:

1. Introduction of TUECs 2014 and new TUECs 2015 to Jonathan Bagger
2. Questions of the community to the directors
3. What is the present strategy to secure more funding? Support from TUG/ TUEC to get additional funding?
4. AOB

Abbreviations: MMS- Molecular & Material Science, NM- Nuclear Medicine, NP- Nuclear Physics, PP- Particle Physics

1.) The present TUECs (Iris Dillmann (NP, Chair), Bernd Stelzer (PP, Chair-Elect), Khayashar Ghandi (MS, Past Chair), Anadi Canepa (PP), Catherine Deibel (NP), Ruediger Picker (PP), Zaher Salman (MS)) and the new members for 2015 (Cornelia Hoehr as new Chair-Elect (NM), Scott Oser (PP) and Dieter Frekers (NP) replacing Anadi Canepa and Catherine Deibel) were introduced to Jonathan Bagger.

2.) Questions from the different communities

**- MMS (Zaher Salman/ Khayashar Ghandi): Concerns about repairs of beamline M9; beamline and user program has been put on hold since 1-2 years;**

Answer from Reiner Kruecken: A task force has been set-up which will assess the situation and decide which of the two options (repair or new front-end magnets) is preferred. For the moment no M9 experiments are foreseen in 2015 but for 2016 the beamline could be back if enough resources and manpower can be allocated. The MMS program, including beamline M9 is in the center of the proposal CAPTURE to get more funding for TRIUMF beyond the presently secured M\$ 222.

Question from Jonathan Bagger: Is the Canadian MS community willing to request more funding for MMS? Answer is yes (Khayashar Ghandi), there will be a separate contact after this meeting how to do this.

**- MMS (Zaher Salman): beta-NMR and nuclear physics/ fundamental symmetries experiments are competing in separate EECs for beamtime at ISAC. Can one link both EECs stronger (e.g. like at ISOLDE) for users competing at the same facility? At the moment beta-NMR gets 5 weeks/ year, independent on the number of proposals.**

Answer Reiner Kruecken: It is not practical to combine both EECs, the best way is to define a quota like it is now. The 5 weeks/ year have been implemented a few years ago and increased the available beamtime for beta-NMR from previously 3 weeks/ year. It corresponds to ~15% of all beamtime available for ISAC which looks not too bad.

It was decided that this topic will be discussed in more detail in a separate meeting between Reiner Kruecken, Catherine Deibel (also member of the present SAP-EEC), Zaher Salman, and Khayasher Ghandi.

Comment from Catherine Deibel: Would need to change composition of present EEC since NP referees will not be able to judge on MMS proposals and vice versa.

**- NP (Iris Dillmann/ Catherine Deibel): If we get only the baseline funding of M\$ 222, the NP community is strongly concerned about the cut of the cyclotron operation time from 9 months to 6 months. Can it also be that TRIUMF decides to completely shut-down the facilities for 1-2 years like elsewhere, and/or reduce the number of EEC meetings?**

Reiner Kruecken: There has been no decision made how the cuts will be done if they become necessary, also with respect of the beamtime distribution beta-NMR vs. nuclear physics. A complete shutdown is not foreseen since TRIUMF does not want to disenfranchise its users and also has commercial commitments (isotope production, proton therapy, PIF/NIF users, ...).

The next EEC meetings will be in January, the budget will be announced in February 2015. If we can only operate for about 6 months/ year, the present backlog of 2.5 years will be further stretched. For the EEC this would mean that the present acceptance rate for new proposals could decrease to 15-20%. If this is the case it will be an extreme time for users until ARIEL starts providing beams for science and the additional production targets help reduce the backlog.

**- PP (Bernd Stelzer): Financial support of ATLAS Tier-1 center after CFI money runs out (2015)**

Answer Jonathan Bagger: TRIUMF will step in as foreseen.

**Are there plans from TRIUMF to push forward Canada's role as Associate Member of CERN, as initiated in 2009 by former director Nigel Lockyer?**

Answer Jonathan Bagger: Has spoken with CERN director Rolf Heuer about this, both agree that this only makes sense if "TRIUMF is a strong lab," meaning that CAPTURE is a higher priority right now.

**Are there plans for replacement of the lost expertise in the TRIUMF detector lab for PP?**

Answer Reiner Kruecken: There are competing demands for different areas of expertise in the Science Technology Department. For example the needs of the ATLAS group for large future upgrades, e.g. tracker or other detectors, and the UCN project, which requires expertise for cryogenic, are quite different. A lot of the other CFI proposals for detector projects require electronics and DAQ expertise. It is too early at the moment for any commitment; the right hiring strategy for the Science Technology Department is being investigated. In future users will likely have

to be involved more in detector developments, compared to what was done for some ISAC experiments.

**PP users (ATLAS) are expressing concerns that TRIUMF is currently not pushing international PP detector developments enough given constraints from onsite program.**

Answer Reiner Kruecken: TRIUMF intends to continue to play a major role in facilitating detector developments for the SAP community.

### 3.) Present strategy to secure more money beyond the M\$ 222 baseline-funding

Jonathan Bagger: The NRC has announced baseline funding for TRIUMF one year earlier than normal, demonstrating their faith in the lab and their commitment to support it for (at least) the next 5 years. Our ideal scenario involves M\$ 290, so we have to find now the missing M\$ 68. If we fail, the lab will have to shrink, as described in the Five Year Plan. In a M\$222 scenario, the No. 1 priority will be to finish ARIEL, although at a slower than optimal pace. The cyclotron operations would have to be reduced from 9 to 6 months per year. The promised support of the ATLAS Tier-1 center is not affected but TRIUMF participation in the LHC upgrade will have to be limited. Nuclear Medicine is not very large and will continue as planned but some cuts will also be necessary there. Material Science will have to continue operation in the present mode without resources to fix broken beamlines. The basic outline for this situation has been already described in the Five-Year Plan 2015-2020.

TRIUMF has submitted a “proposal” to the Canadian Government, called “CAPTURE,” requesting M\$68 for the next 5 years.

#### **What can the TUG do to support this initiative?**

It was decided to write a support letter within November 2014. Instructions will come from Jonathan Bagger after speaking to contact persons in Ottawa.

### 4.) AOB

- Jonathan Bagger suggested to have these TUEC-Directors meetings quarterly.

- We shortly discussed the requests from different people concerning the Hot Spot Café. A proposal will be brought forward from the TUECs in collaboration with other TRIUMF liaison groups.