

Carleton/Queen's/Victoria Technical Teams (NSERC MRS Supported)

Kevin Graham

IPP Meeting Edmonton June 2015

NSERC Major Resources Support Program (MRS)

- facilitate the effective access to major and unique **national or international** experimental or thematic research resources

some NSERC criteria include:

- **Uniqueness of the resource**
 - **Use of the resource by the research community**
 - **Management of the resource**
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- Carleton University, Queen's University, and University of Victoria groups joined to form a consortium managed through a **Prioritization Board**. The Board consists of members from across the country who oversee allocation of the resources and receive and prioritize requests for support working with the local MRS managers
 - the Board meets 3-4 times a year and as needed to review the status of the MRS teams in terms of resource allocation, community access, and funding agency support

Board Members and Access Information

Prioritization Board Members:

Tom Mattison - UBC (Board Chair)

Blair Jamieson - Winnipeg (Board Secretary)

Akira Konaka - TRIUMF

Brigitte Vachon - McGill

Mike Roney - IPP

Mark Boulay - Queen's manager

Kevin Graham - Carleton manager

Dean Karlen - Victoria manager

Links to the detailed information can be accessed through the following IPP and CINP web pages

<http://www.ipp.ca/sapmrs/index.shtml>

<http://cinp.phys.uregina.ca/node/175>

Requesting Support: contact Board Chair Tom Mattison
mattison@physics.ubc.ca and/or the relevant MRS manager
- a standard form is available to request support

• Carleton/Queen's/Victoria MRS •

Support Request Form

Request form for allocation of MRS personnel

Date (yyyy/mm/dd)

SAP Project Title

Funding Source

Primary Contact Information

Institution

First Name

Last Name

E-mail

Phone

Project and Work Description

The project is developing a new detector for the Project collaboration. Support is requested to fabricate components for this detector including design, DAQ, and installation support

Proposed start (yyyy/mm/dd)

Expected Duration (months)

Estimated FTEs Required for Requested Personnel:

	Upcoming 4 months	Following 4 months
Yves Baribeau (electronics) – Carleton	<input type="text"/>	<input type="text"/>
Matt Bowcock (designer) – Carleton	<input type="text"/>	<input type="text"/>
Philippe Gravelle (technician) – Carleton	<input type="text"/>	<input type="text" value="0.3"/>
Rodney Schnarr (designer) – Carleton	<input type="text" value="0.3"/>	<input type="text"/>
Dave Bearse () – Queen's	<input type="text"/>	<input type="text"/>
Phil Harvey () – Queen's	<input type="text"/>	<input type="text" value="0.3"/>
Dr Paul Poffenberger (detector technologist) - Victoria	<input type="text" value="0.3"/>	<input type="text"/>

Carleton Technical Team

- awarded 3 year grant with yearly reports required by NSERC for continuation
- very positive reviews in April 2015
- in final year of grant and will apply in Fall for new 3 year cycle

Current Personnel Supported

- Philippe Gravelle (machinist/technician - over 20 years experience with particle detector design, fabrication, and assembly)
- Yves Baribeau (electronics specialist - 6 years experience at Carleton following industry career)
- Matt Bowcock and
- Rodney Schnarr (designers - combined 14 years experience at Carleton developing designs for various experiments...often working closely with TRIUMF and SNOLAB engineers based at Carleton)

Some Projects Supported in 2014-2015

ARIEL

ATLAS (sTGC)

DEAP

EXO (nEXO SiPM, barium tagging)

NEWS

SNO+

Queen's Technical Team

- Queen's was awarded a 3-year grant in April 2015

Current Personnel Supported

- Koby Derring (mechanical engineer with 5 years experience on SAP projects)
- Robert Gagnon (mechanical technician with 7 years experience)
- Phil Harvey (hardware control and programming robotic devices and instruments, software for data acquisition and visualization software)

Some Projects Supported in 2014-2015

CDMS

PICO

DEAP

SNO+

NEWS

PICASSO

Victoria Technical Team

- awarded 3 year grant with yearly reports required by NSERC for continuation
- very positive reviews in April 2015
- in final year of grant and will apply in Fall for new 3 year cycle

Current Personnel Supported

- **Paul Poffenberger** (detector technologist - PhD physicist with over 20 years experience in detector simulation, design, assembly, testing, and data acquisition)

Some Projects Supported in 2014-2015

ATLAS (miniF Lar)

ATLAS (baseplane)

TRIUMF (elinac)

T2K (TPC DCC upgrade)

SuperB/Belle II

Summary

- Carleton/Queen's/Victoria technical teams continue to offer valuable, unique resources for the SAP community in Canada
- Queen's on new 3-year grant
- Carleton and Victoria will apply in Fall to renew
- these resources have been developed are in place to assist and facilitate Canadian SAP research...contact Board Chair Tom Mattison and/or the relevant MRS manager(s) to **request support for your project**