



Subatomic Physics Long Range Plan Committee First Report

D. Karlen / U. Victoria and TRIUMF
Chair, LRP Committee

Edmonton, June 15, 2015

LRP website: www.lrp2017.ca

LRP Committee

- On behalf of the Canadian community of Subatomic Physicists, I would like to thank the members for accepting to serve on this important committee (especially our international members)

Committee members:

Name	Institution
Dean Karlen (Chair)	University of Victoria and TRIUMF
Philip Burrows	Oxford University, United Kingdom
Jens Dilling	TRIUMF
Jacques Farine	Laurentian University
Mark Huyse	K.U. Leuven, Belgium
Randy Lewis	York University
Jeffery Martin	University of Winnipeg
Achim Schwenk	T.U. Darmstadt, Germany
Manuella Vincter	Carleton University
Andreas Warburton	McGill University
Itay Yavin	McMaster University and Perimeter Institute


LRPC observers

Ex-officio members and observers:

Name	Institution
Garth Huber (ex-officio)	CINP Executive Director
J. Michael Roney (ex-officio)	IPP Director
Reiner Kruecken (ex-officio)	Head of Science Division, TRIUMF
Nigel Smith (ex-officio)	Director, SNOLab
Adam Ritz (ex-officio)	SAPES, co-Chair 2016
Olivier Gagnon (observer)	Senior Programs Officer, CFI
Sarah Overington (observer)	Team Leader, NSERC

- Strictly observers, but also valuable resources for the LRP Committee. Offer advice and expert opinion to the other members, if requested.
- Do not participate in the discussions on the formulation of the long-range plan, the LRP Committee's recommendations and decisions, or the writing of the report.

Our Mandate



Based on a broad consultation with the Canadian subatomic physics community, the LRP Committee is asked to:

- Identify subatomic physics scientific ventures and priorities that should be pursued by the Canadian community and that would ensure continuous Canadian global scientific leadership.
- Provide budgetary estimates, including funding ranges for prioritized endeavours.
- Funding ranges should include funding levels that would allow for a restrained, yet efficient, contribution to the ventures, as well as levels that would enable a more extensive contribution.

The plan is to cover the period 2017-2021 and include a look ahead to 2026.


Background



The LRP Committee is to take into account the:

- Ever increasing internationalization of projects and collaborations in addressing the fundamental questions of subatomic physics.
- Concurrent requirement to maintain and further develop world-class domestic research programs and infrastructure.
- Established expertise and strengths of the Canadian community.
- Recognition of the fact that the Canadian subatomic physics community cannot be involved in all research endeavours

Committee rules

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- Members are asked to not participate in any committee or body that will prepare briefs (or any other material) to the LRP Committee.
 - They can participate as individual members of the community to the consultations undertaken by the CINP, the IPP or any other organization.
 - The community is asked to refrain from unduly pressuring individual members during this demanding exercise.

Deliverable: Final report no later than September 1, 2016.

Purpose and Value



The Long Range Plan process:

- helps coordinate the SAP community to identify and pursue the science it deems most important, within the limited resources available

and its report:

- helps tell the success story of SAP research in Canada
- advises the SAP ES and CFI expert panels on the aspirations of the SAP community in Canada

CINP and IPP views on the value of the LRP process and report:

- raising alerts to SAP ES on issues of envelope management
 - eg. ensuring capacity to take on new/upcoming projects
- making the case for a growing envelope, by illustrating the scientific opportunities that come with increased resources
- communicating to international partners (and science policy makers) the plans and priorities of the Canadian SAP community, the resources required, and the benefits to society



Submission of briefs to the LRPC

- It is important that the LRP process is inclusive of all research areas that receive support through the SAP ES
- CINP and IPP have been requested to prepare briefs for the LRPC
- Since the last LRP process, accelerator physics research has received significant support from SAP ES (~ \$1.5M)
 - this research area falls outside the current CINP/IPP missions
- For the LRP, we encourage the accelerator physics community to submit information through the CINP/IPP.
 - The institutes welcome such input.
- If the accelerator physics community prefers to self-organize and submit a brief directly to the LRPC, this will also be considered.
- The same treatment would apply to any other discipline supported through the SAP ES, but falling outside the CINP/IPP missions.



Town Hall meeting

- Last time, the LRP committee invited the community to attend town hall meetings held in Western and Eastern Canada to give feedback on the submitted briefs.
- This time, we would like to have one town hall meeting, and allow for remote participation.
 - Essential: high standard audio conference
 - Proposed location: Vancouver
 - Proposed date: Saturday, December 12.
- CINP/IPP encourage people to attend in-person if possible

Proposed schedule

Dates in 2016 are not final

Date	Activities
June 14, 2015	Kick-off meeting
October 1, 2015	IPP and CINP briefs submitted (final draft form, or finalized)
October 24-25, 2015	In-person working meeting of the committee
December 12, 2015	Town Hall meeting
February 23, 2016	Audio conference presentation to community by LRPC: Main recommendations of the LRPC, to be presented to SAP ES on March 8
March 8, 2016	Presentation of main recommendations from the LRPC
May 15, 2016	Draft LRP made available to community. Deadline for comments: June 15, 2016.
June 13-18, 2016	Report from LRPC to community at CAP congress (Ottawa). In-person working meeting to work on community comments.
July 31, 2016	LRP report finalized and sent for translation and binding.