



Memorandum

Date: April 21, 2010

To: Members of the Canadian subatomic physics community

From: Samir Boughaba
Team Leader, Physics and Astronomy

Subject: Update on the Long-Range Plan process for Canadian subatomic physics:
2011-2016

In a memorandum dated December 3, 2009, we informed you of the formal launch of the Long-Range Plan (LRP) process that will cover the period 2011-2016 and include a look ahead to 2021.

We would like to provide you with an update on this process:

- The LRP Committee has now been established. You will find the membership list as an attachment to this memorandum. We sincerely thank all the members for generously agreeing to participate in this important endeavour in service of the Canadian subatomic physics community. We are also indebted to Dr. Malcolm Butler for accepting the challenging task of chairing this Committee and leading this process. I am sure that you will join us in wishing the Committee the best of success in this exciting enterprise.
- A preliminary schedule for the LRP activities has been set; it is provided as an attachment to this memorandum. The kick-off meeting of the LRP Committee is scheduled for June 6, 2010 in Toronto. The subsequent meeting dates are only tentative at this stage. Most of them will be set during the kick-off meeting.
- Dr. Butler will make a presentation on June 7, 2010 about the LRP process, during the joint PPD/DNP session of the congress of the Canadian Association of Physicists (CAP). We invite you to consult the congress' program (www.cap.ca/en/congress/2010) for additional information on the time and location of this session.

Once again, we strongly encourage you to actively participate and contribute to this important process. We look forward to meeting with you at the CAP congress and during the public consultations that will be held subsequently.

We wish you continuous success in your research endeavours.

**THE LONG-RANGE PLAN FOR CANADIAN SUBATOMIC
PHYSICS: 2011 – 2016**
**PLAN À LONG TERME POUR LA PHYSIQUE SUBATOMIQUE
AU CANADA : 2011-2016**

LONG-RANGE PLAN COMMITTEE MEMBERSHIP
LISTE DES MEMBRES DU COMITÉ DE PLANIFICATION À LONG TERME

- **Malcolm Butler (Chair)**
Saint Mary's University
Nuclear physics theory; neutrino astrophysics; low-energy tests of quantum chromodynamics; astrophysics
- **Äystö, Juha**
University of Jyväskylä, Finland
Experimental nuclear physics; nuclear structure; reactions and decays of nuclei far from stability; radioactive ion beams; heavy-ion physics; techniques of nuclear spectroscopy; applied accelerator physics; nuclear astrophysics; atomic physics; high-precision measurements on fundamental constants and interactions; laser-assisted methods in nuclear physics; environmental detection methods
- **Burgess, Clifford**
McMaster University / Perimeter Institute for Theoretical Physics
Formal theory; high energy particle theory; strings and branes; effective field theory techniques; dark matter and dark energy; cosmology
- **Garrett, Paul**
University of Guelph
Experimental nuclear physics; nuclear spectroscopy; gamma-ray, neutron, and charged-particle detection; nuclear instrumentation; nuclear reactions; beta-decay; collective and single-particle excitations in nuclei



- **Hallin, Aksel**
University of Alberta
Experimental high energy physics; dark matter; neutrino physics and astrophysics; particle astrophysics
 - **Huber, Garth**
University of Regina
Experimental intermediate energy nuclear physics; studies of hadronic structure; quantum chromodynamics
 - **Karlen, Dean**
University of Victoria
Experimental high energy physics; detector development; linear accelerators; neutrino properties
 - **Luke, Michael**
University of Toronto
Elementary particle theory: b quark physics; QCD; heavy quarks; effective field theories
 - **O'Neil, Dugan**
Simon Fraser University
Experimental high energy physics; fundamental particles and their interactions; proton-antiproton collisions; ATLAS experiment; high performance computing
 - **Robertson, Steven**
McGill University / Institute of Particle Physics
Experimental high energy physics; collider-based experimental searches for evidence of physics beyond the Standard Model; searches for rare decays of B mesons; drift chamber research and development; High-Level Trigger physics algorithm development
 - **Scholberg, Kate**
Duke University, U.S.A.
Experimental high energy physics; astrophysics; cosmology; low background (underground) experiments; neutrino physics
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THE LONG-RANGE PLAN FOR CANADIAN SUBATOMIC PHYSICS: 2011 – 2016

SCHEDULE OF ACTIVITIES

Activities	Dates
Kick-off meeting of the LRPC	June 6, 2010
Presentation by the Chair of the LRPC to the community during the 2010 CAP congress (Toronto)	June 7, 2010
Meeting to discuss the briefs presented by the Canadian Institute of Nuclear Physics and the Institute of Particle Physics, to identify the need for any additional information, and to prepare the town hall meetings (Toronto) ¹	November 28-29, 2010
Town hall meeting in Vancouver ^{1, 2}	January 12, 2011
Town hall meeting in Montreal ^{1, 2}	January 14, 2011
Analysis of the community's input during the town hall meetings and start of the discussion on the formulation of the Long-Range Plan (Montreal) ¹	January 15-16, 2011
Meeting to continue the work on the formulation of the Long-Range Plan (Toronto) ¹	March 11-12, 2011
Teleconference to continue the work on the formulation of the Long-Range Plan and to initiate the writing of the report ¹	April 11, 2011
Meeting to finalize the formulation of the Long-Range Plan, to review progress in the writing of the report, and to prepare the presentation by the Chair of the LRPC during the 2011 CAP congress (Toronto) ¹	May 8-9, 2011
Presentation by the Chair of the LRPC to the community during the 2011 CAP congress (St. John's, Newfoundland)	June 13, 2011
Teleconference to review progress in the writing of the report and to integrate input received from the community during the 2011 CAP congress ¹	June 20, 2011
Teleconference to review progress in the writing of the report ¹	July 18, 2011
Teleconference to approve the final version of the report ¹	September 5, 2011
Formal presentation of the Long-Range Plan report to NSERC	October 31, 2011

¹ *Dates are tentative, but meetings will be held around them. The LRPC will agree on final dates that suit the members' schedule.*

² *Town hall meetings will be held back-to-back during the same week, with a follow-up meeting immediately after.*

PLAN À LONG TERME POUR LA PHYSIQUE SUBATOMIQUE AU CANADA : 2011-2016

CALENDRIER DES ACTIVITÉS

Activités	Dates
Première réunion du Comité de planification à long terme	6 juin 2010
Présentation par le président du Comité de planification à long terme au cours du congrès de 2010 de l'ACP (Toronto)	7 juin 2010
Réunion pour discuter des communications présentés par l'Institut canadien de physique nucléaire et l'Institut de physique des particules, déterminer le besoin de renseignements supplémentaires, et préparer les assemblées générales (Toronto) ¹	28 et 29 novembre 2010
Assemblée générale à Vancouver ^{1,2}	12 janvier 2011
Assemblée générale à Montréal ^{1,2}	14 janvier 2011
Analyse des contributions de la collectivité lors des assemblées générales et début des discussions eu vue de la formulation du plan à long terme (Montréal) ¹	15 et 16 janvier 2011
Réunion afin de poursuivre la formulation du plan à long terme (Toronto) ¹	11 et 12 mars 2011
Téléconférence afin de poursuivre la formulation du plan à long terme et débiter la rédaction du rapport ¹	11 avril 2011
Réunion pour peaufiner la formulation du plan à long terme, évaluer les progrès accomplis dans la rédaction du rapport, et préparer la présentation du président du Comité de planification à long terme au cours du congrès de 2011 de l'ACP (Toronto) ¹	8 et 9 mai 2011
Présentation du président du Comité de planification à long terme au cours du congrès de 2011 de l'ACP (St. John's, Newfoundland) ¹	13 juin 2011
Téléconférence pour évaluer les progrès accomplis dans la rédaction du rapport et intégrer les commentaires reçus de la collectivité lors du congrès de 2011 de l'ACP ¹	20 juin 2011
Téléconférence afin d'évaluer les progrès accomplis dans la rédaction du rapport ¹	18 juillet 2011
Téléconférence afin d'approuver la version définitive du rapport ¹	5 septembre 2011
Présentation officielle du rapport de planification à long terme au CRSNG	31 octobre 2011

¹ Les dates sont provisoires, mais les réunions auront lieu peu de temps avant ou après celles-ci. Le Comité de planification à long terme fixera les dates en fonction de la disponibilité de tous les membres.

² Les assemblées générales auront lieu l'une à la suite de l'autre au cours d'une même semaine; elles seront immédiatement suivies d'une réunion du comité.