


Long Range Plan 2012 Mathematics and Statistics



2010 CMS
WINTER MEETING
December 4-6, Vancouver, British Columbia



CMS Winter Meeting, December 4, 2010



Steering Committee

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- **Membership:**
 - Alejandro Adem, Ed Bierstone, Eddy Campbell, Charmaine Dean, Christian Genest, Gail Ivanoff, Niky Kamran, Rachel Kuske, Mark Lewis, Nancy Reid, Anne-Marie Thompson
- **Representation:**
 - Statistics, Pure mathematics, Applied mathematics,, Institutes NSERC, ex-officio
- **“Pre-steering” committee:**
 - NSERC Math-Stats Liaison + Presidents + Institute Directors
 - Summer 2010, recommended size, chair, etc.

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Timeline

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- Call for nominations for steering committee: August, 2010
- Establishment of steering committee: summer, 2010
- First meeting of SC, announcements: October, Nov 2010
- Call for discussion papers: December, 2010
- Data collection, committee meetings: January, March 2011
- Rough outline, main tasks assigned: April, 2011
- Detailed outline: June, 2011
- Town halls: Fall? 2011
- **Final report: January, 2012**

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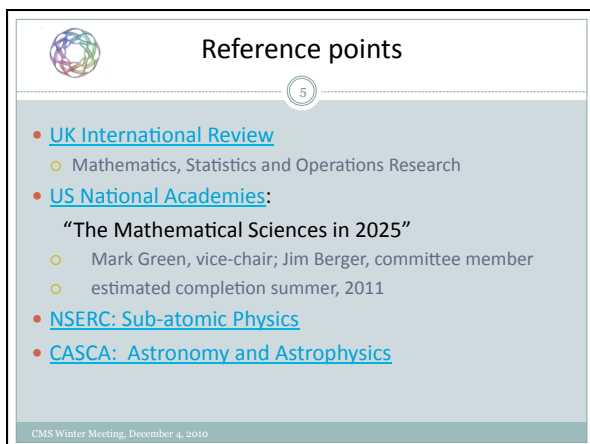


Activity to date

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- **October 31, first in-person meeting, Toronto**
 - Agenda: timelines and work flow, general discussion of vision, hurdles, data collection, engaging the community
- **Regular conference calls**
- **Meetings with:**
 - CMS executive
 - Math chairs
 - Stats chairs
 - SSC executive
- **International advisory committee:**
 - Mark Green, Jim Berger, Jean-Pierre Bourguignon

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Reference points

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- [UK International Review](#)
 - Mathematics, Statistics and Operations Research
- [US National Academies:](#)
 - “The Mathematical Sciences in 2025”
 - Mark Green, vice-chair; Jim Berger, committee member
 - estimated completion summer, 2011
- [NSERC: Sub-atomic Physics](#)
- [CASCA: Astronomy and Astrophysics](#)

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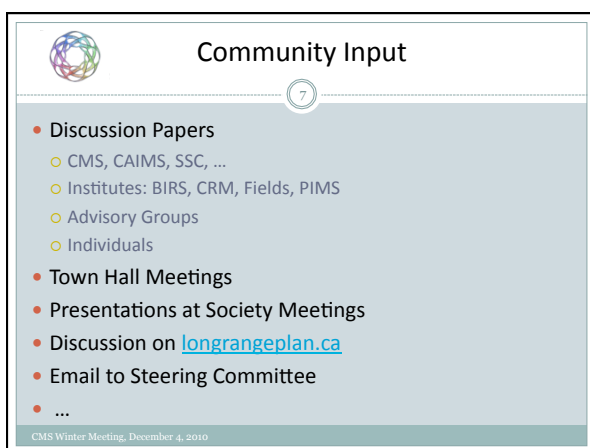


... activity to date

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Screenshot of the longrangeplan.ca website. The page features the title "2012 Long Range Plan" and a sub-header "Long Range Plan for Mathematical and Statistical Sciences". The main content area contains text about the plan's development, mentioning NSERC's request in June 2010 and the formation of a steering committee. The steering committee members listed are: Alejandro Adem (PIMS), Edward Bierstone (Fields), Eddy Cattolani (UNB), Charmaine Dean (SFU), and Alexander Adem (PIMS).

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Community Input

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- Discussion Papers
 - CMS, CAIMS, SSC, ...
 - Institutes: BIRS, CRM, Fields, PIMS
 - Advisory Groups
 - Individuals
- Town Hall Meetings
- Presentations at Society Meetings
- Discussion on longrangeplan.ca
- Email to Steering Committee
- ...

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Next Steps

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- Solicitation of discussion papers
- Planning for public meetings
- Data collection
- Feedback from international advisory committee
- ...

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Terms of reference

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- Current and future scientific context;
- How best to support the present programs of research;
- The role of the Mathematical Institutes and BIRS as community resources;
- Identification of important new initiatives and directions;
- How best to incorporate new initiatives into the research agenda;
- How best to leverage other research resources;

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Terms of reference

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- **Current and future scientific context;**
 - How are current scientific developments affecting research in mathematics and statistics
 - How is research in mathematics and statistics impacting science
 - How does/should research in mathematics and statistics contribute to national science policy discussions

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Terms of reference

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- Current and future scientific context;
- **How best to support the present programs of research;**
 - How does existing infrastructure support research and training in mathematics and statistics
 - Are there opportunities for different mechanisms that would strengthen the support of research, for example, to facilitate greater collaboration
 - Are there important areas of research that are 'falling between the cracks', in terms of NSERC funding
 - Recognizing that adequate funding continues to be a struggle, is the current mix of resources suitable for research goals in mathematics and statistics

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Terms of reference

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- Current and future scientific context;
- How best to support the present programs of research;
- **The role of the Mathematical Institutes and BIRS as community resources;**
 - How do current programs at the institutes impact research, training and recruitment in mathematics and statistics
 - What types of Institute initiatives might enhance their impact on research in mathematics and statistics

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Terms of reference

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- Current and future scientific context;
- How best to support the present programs of research;
- The role of the Mathematical Institutes and BIRS as community resources;
- Identification of important new initiatives and directions;
- How best to incorporate new initiatives into the research agenda;
- How best to leverage other research resources;

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FAQ

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- How will the plan be used?
- Why are we being asked to do this?
- How will the plan be written?
- What about the NSERC Liaison committee?
- Why isn't there representation from _____ on the steering committee?
- Why are mathematics and statistics being lumped together?
- How can we get more funding?

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