



# CAP-NSERC Liaison Committee

## Primary Focus



- the LC serves as an interface to the Canadian physics community
- identifies, discusses and analyzes opportunities that the community could seize or build on, and challenges that it may face, in its quest to be at the forefront of research at the international level
- identifies factors that are crucial to the success to date of Canadian physics
- makes recommendations as to how the community could build on its leading role on the international stage & improve the research climate for physics in Canada



# CAP-NSERC Liaison Committee

## New ToRs & Structure



- recently revised the Terms of Reference & structure of the LC
  - committee at arm's length from both the CAP & NSERC
  - representatives elected by the CAP & appointed by NSERC representing 6 subfields of physics



# CAP-NSERC Liaison Committee LC Membership



- John Dutcher  
Chair



- Peter Grutter  
Condensed Matter



- Peter Krieger  
Subatomic



- Bill Whelan  
Biomedical &  
Biological



- Wayne Hocking  
Near-Earth & Space



- Manu Paranjape  
Theoretical/  
Mathematical



- Wojciech Rozmus  
Atomic & Molecular





# CAP-NSERC Liaison Committee LC Membership



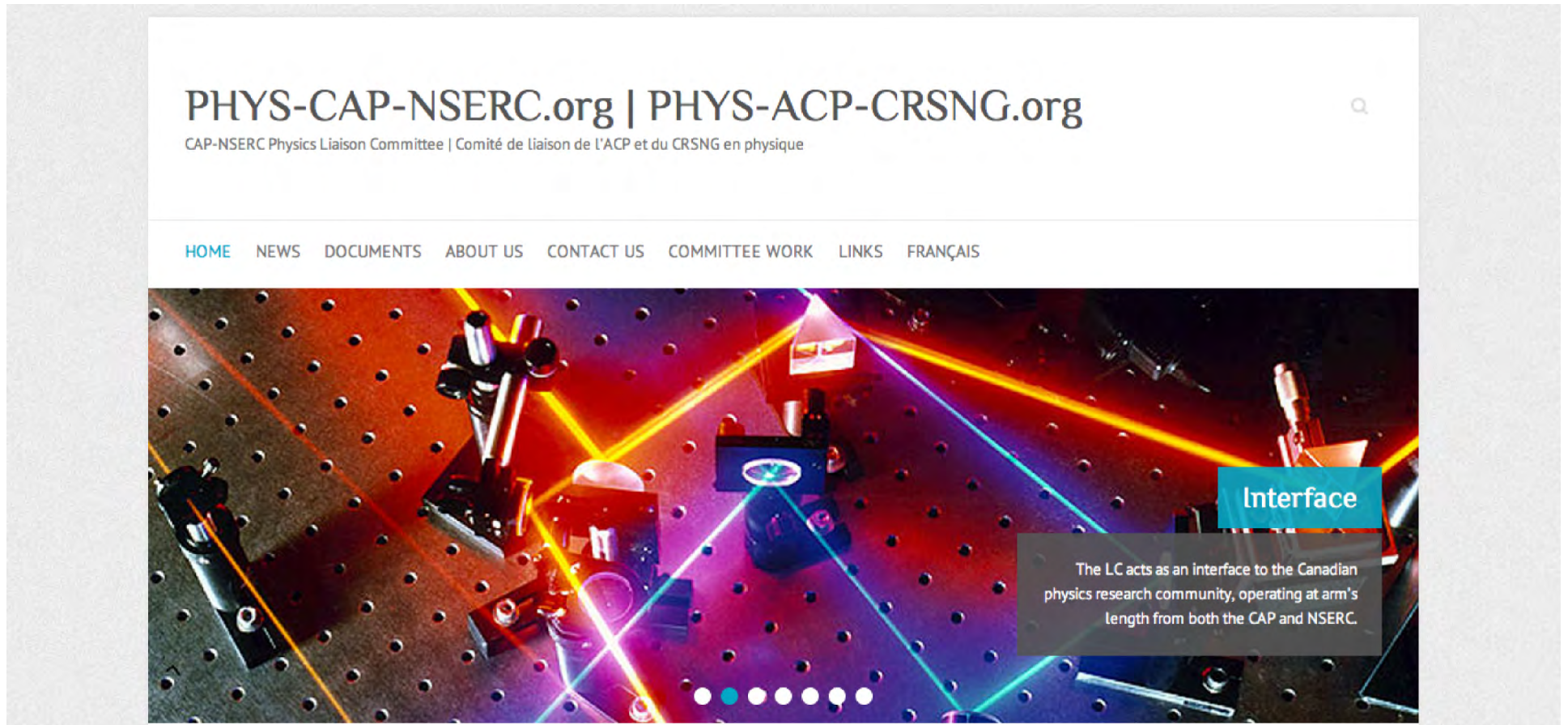
- ex officio members (observers/resources)
  - NSERC representatives
    - Samir Boughaba  
*Team Leader – Physics & Astronomy, Computer Science*
    - Elizabeth Boston  
*Director – Mathematical, Environmental and Physical Sciences*
    - Bruce Gaulin  
*NSERC's Physics Group Chair*
  - CAP representatives
    - Francine Ford  
*CAP Executive Director*
    - Barbara Frisken  
*CAP Director of Academic Affairs*



# CAP-NSERC Liaison Committee LC Webpage



- new webpage: [www.phys-cap-nserc.org](http://www.phys-cap-nserc.org)  
[www.phys-acp-crsng.org](http://www.phys-acp-crsng.org)







# CAP-NSERC Liaison Committee

## Recent Reports & Initiatives



- IoP report on “Bibliometric evaluation and international benchmarking of the UK’s physics research” – 2012
  - “normalized citation impact” of physics research in different countries
  - Canada ranked #1 in 2010

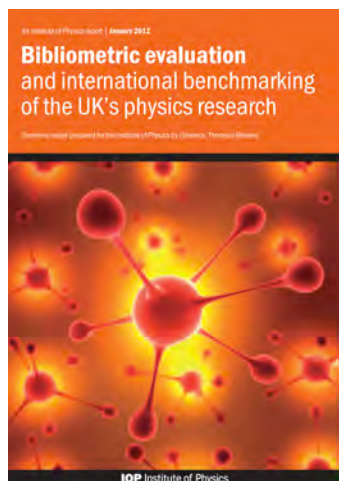
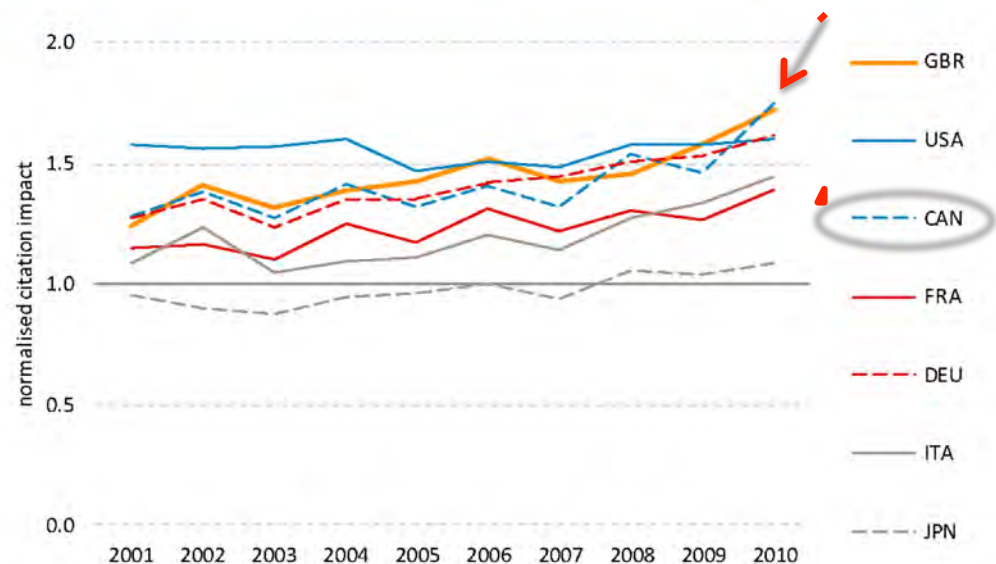


Figure 3.2a Citation impact of Physics papers – UK and G7 comparators (2001-2010)



Data & analysis: Evidence, Thomson Reuters

[http://www.iop.org/publications/iop/2012/page\\_53959.html](http://www.iop.org/publications/iop/2012/page_53959.html)



# CAP-NSERC Liaison Committee

## Recent Reports & Initiatives



- CCA report on “The State of Science and Technology in Canada, 2012” – 2012
  - identified 6 fields of research in which Canada excels
  - 1 of these was Physics & Astronomy



The Panel determined two measures of quality, the field’s international ARC rank and its rank in the international survey, to be the most relevant in determining the field’s position compared with other advanced countries. Based on these measures of quality, the Panel identified six research fields in which Canada excels. These fields are (in alphabetical order):

- Clinical Medicine
- Historical Studies
- Information and Communication Technologies (ICT)
- Psychology and Cognitive Sciences
- Physics and Astronomy
- Visual and Performing Arts

<http://www.scienceadvice.ca/en/assessments/completed/science-tech.aspx>

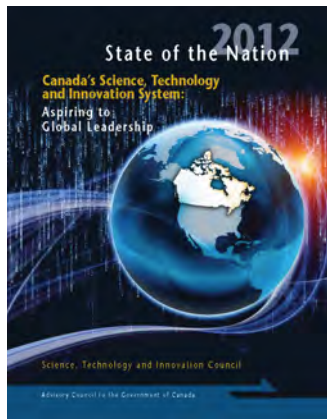


# CAP-NSERC Liaison Committee

## Recent Reports & Initiatives



- STIC\* report on “The State of the Nation 2012: Canada’s Science, Technology and Innovation System: Aspiring to Global Leadership” – May 2013
  - evaluates Canada’s performance with respect to business innovation, knowledge development & transfer, & talent development & deployment
  - physics has best average relative citation (ARC) score



- A breakdown by field of study reveals that Canada’s ARC exceeds the international average in all scientific fields. Canada obtains its best ARC scores in physics, with an ARC of 1.47. Other areas of Canadian strength include clinical medicine (1.46) and earth and space (1.42).

\*STIC: Science, Technology and Innovation Council  
[http://www.stic-csti.ca/eic/site/stic-csti.nsf/eng/h\\_00058.html](http://www.stic-csti.ca/eic/site/stic-csti.nsf/eng/h_00058.html)





# CAP-NSERC Liaison Committee

## Recent Reports & Initiatives



- Computing Science LC report on “Computer Science Research in Canada: Strengths, Challenges and Recommendations” – March 2013
  - detailed analysis of
    - independent & comprehensive evaluation of CS in Canada (OST)
    - questionnaire for community

### **Computer Science Research in Canada: Strengths, Challenges and Recommendations**

Prepared by the NSERC Computer Science Liaison Committee

Jörg-Rüdiger Sack (Chair) – Carleton University  
Michael Bauer – University of Western Ontario  
Anne Condon – University of British Columbia  
Gregory Dudek – McGill University  
Marc Frappier – Université de Sherbrooke

[http://cs-nserc.ca/wp-content/uploads/2013/04/  
Computer-Science-in-Canada-Assessment-and-Analysis-March-2013.pdf](http://cs-nserc.ca/wp-content/uploads/2013/04/Computer-Science-in-Canada-Assessment-and-Analysis-March-2013.pdf)



# CAP-NSERC Liaison Committee LC Activities



- where are we now?
  - engaging the physics community
    - receiving & analyzing input
  - determining the current use of various NSERC programs by physics community
    - data mining of NSERC Awards Search Engine
- where do we want to go?
  - determining factors that are crucial for the success of Canadian physics
  - making recommendations that will improve the research climate for Canadian physics



# CAP-NSERC Liaison Committee

## Contact Information



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