

**Submittee:** Mark Gotay

**Date Submitted:** 2009-07-14 11:05

**Title:** Similarity: Generalizations, Applications and Open Problems

**Event Type:** Conference-Workshop

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**Location:**

UBC

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**Dates:**

August 11-15, 2008

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**Topic:**

The conference attempted to tie together the following topics: \*Asymptotics involving similarity solutions--- \*Systematic methods for obtaining wider classes of symmetries and conservation laws for partial differential equations--- \*Numerical methods for partial differential equations based on symmetries and/or conservation laws--- \*Software for finding symmetries/conservation laws/similarity solutions for partial differential equations

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**Methodology:**

\*Presentations by leading researchers on the topics--- \*Invited papers(chosen from 17 of the relevant presentations) to appear in a triple issue of the Journal of Engineering Mathematics (a Springer journal) to be co-edited by G. Bluman, P. Broadbridge, J. King and M. Ward in January 2010--- \*Special (recorded) afternoon session devoted to open problems (chaired by G. Bluman); presented ideas to be incorporated in the introductory paper of the triple issue--- \*Software presentations at the end of the special afternoon session

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**Objectives Achieved:**

Networking developed from researchers from the four topic areas, especially through special journal issue

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**Scientific Highlights:**

summarized previously

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**Organizers:**

Stephen Anco, Brock University--- George Bluman, UBC--- Phil Broadbridge, Director AMSI (Australian Mathematical Sciences Institute), Melbourne Australia--- John King, University of Nottingham--- Michael Ward, UBC

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**Speakers:**

Other participants: Margaret Liang, Vancouver--- Mary Pugh, Mathematics, University of Toronto--- John Stockie, Mathematics, Simon Fraser University--- Anthony Peirce, Mathematics, UBC--- George Bluman, Mathematics, UBC--- Michael Ward, Mathematics, UBC--- Robert Israel, Mathematics, UBC--- Greg Reid, Applied Mathematics, University of Western Ontario--- Andy Wan, Mathematics, UBC--- Alan Lindsay, Mathematics, UBC--- Kee Lam, Mathematics, UBC---

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**Links:**

<http://www.pims.math.ca/scientific/general-event/similarity-generalizations-applications-and-open-problems>

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