

**Submittee:** Nilima Nigam

**Date Submitted:** 2011-09-21 10:23

**Title:** 10th International Conference on Mathematical and Numerical Aspects of Waves (Waves 2011)

**Event Type:** Conference-Workshop

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**Location:**

Simon Fraser University Harbour Center, 515 Hastings Street, Vancouver

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**Dates:**

July 25-29, 2011

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**Topic:**

Forward and Inverse Scattering, Fast Computational Techniques, Numerical Analysis, Approximate Boundary Conditions, Domain Decomposition, Analytical & Semi-analytical Methods, Nonlinear Wave Phenomena, Water Waves and Coastal Modeling, Guided Waves and Random Media, Medical and Seismic Imaging, Stochastic methods in Wave Propagation

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**Methodology:**

-8 plenary talks -4 invited minisymposia, including tsunami modeling, run by colleagues from Naval Postgraduate School, US. -2 minitutorials (ClawPack and deal ii), a first for this conference -A Young Researcher Poster Session -over 180 contributed talks.

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**Objectives Achieved:**

See above. We had no objectives apart from scientific ones.

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**Scientific Highlights:**

This conference series is the premier meeting for mathematicians and numerical analysts studying wave propagation, particularly in the areas of electromagnetics, linear waves and inverse problems. We saw the first serious mathematical simulation of a grand piano, and dissipative solitons in femtosecond lasers. This meeting highlighted emerging areas (random media, nano-scale phenomena, the use of Bayesian methods for large-scale inverse problems), and also included a large number of talks on nonlinear and water waves. The latter reflected well the interests of the local research community. Finally, we saw very heavy participation from students and postdocs, showcasing their work.

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**Organizers:**

Deconinck, Bernard , U. Washington Haber, Eldad , UBC LeVeque, Randy, U. Washington Kutz, Nathan , U. Washington Nicholls, David , UIC Nigam, Nilima , SFU Ruuth, Steve , SFU Schoetzau, Dominik , UBC

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**Speakers:**

We had over 200 talks. Please see the conference proceedings, or the schedule attached, for a full list.

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**Links:**

see attached

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**Comments / Miscellaneous:**

Main conference website: <http://www.sfu.ca/WAVES> Plenary talk slides:

[http://www.sfu.ca/WAVES/plenary\\_speakers/](http://www.sfu.ca/WAVES/plenary_speakers/) Refereed conference proceedings (eventually to be hosted by PIMS): <http://www.sfu.ca/WAVES/proceedings/>

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**File Uploads:**

Additional Upload 1: [http://www.pims.math.ca/files/final\\_report/SCHEDULE+CHAIRS.pdf](http://www.pims.math.ca/files/final_report/SCHEDULE+CHAIRS.pdf)

Additional Upload 2: [http://www.pims.math.ca/files/final\\_report/PROGRAM-FINAL.pdf](http://www.pims.math.ca/files/final_report/PROGRAM-FINAL.pdf)

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