Location:

Portland, Oregon, USA

## Dates:

October 18, 2014

## Topic:

Computational Mathematics and Numerical Analysis

## Methodology:

-lectures

-poster sessions

# **Objectives Achieved:**

1. To provide frequent contacts between regional participants in similar fields. //

2. To be aware of global developments by inviting a speaker from outside the region. //

3. To enable computational scientists in the US and Canadian Pacific Northwest region to hear, consult, and possibly collaborate with the outside speakers and members of other institutions in disciplinary or interdisciplinary research areas. //

4. To facilitate interactions that lead to employment and internship opportunities for postdoctoral fellows, graduate students and underrepresented groups. //

# Scientific Highlights:

N/A

# Organizers:

Daescu, Dacian, Fariborz Maseeh Department of Mathematics and Statistics, Portland State University //

Gopalakrishnan, Jay, Fariborz Maseeh Department of Mathematics and Statistics, Portland State University //

Jiang, Bin, Fariborz Maseeh Department of Mathematics and Statistics, Portland State University //

Ovall, Jeffrey, Fariborz Maseeh Department of Mathematics and Statistics, Portland State University //

#### Speakers:

Randolph Bank, Department of Mathematics, University of California, San Diego, Some Algorithmic Aspects of Adaptive Finite Elements. //

Yekaterina Epshteyn, Department of Mathematics, University of Utah, Di erence Potentials Method for Interface/Composite Domain Problems. //

David George, United States Geological Survey, Modeling debris-flows and landslides. Case study of the Oso, Washington, disaster, 2014. //

Jeff Hammond, Intel Corporation, High-performance tensor computations in quantum chemistry. //

Nilima Nigam, Department of Mathematics, Simon Fraser University, Numerical approximation of Laplace eigenvalues with mixed boundary data. //

Malgorzata Peszynska, Department of Mathematics, Oregon State University, Computational modeling of bio Ims. //

Panayot Vassilevski, Lawrence Livermore National Lab, Element based algebraic coarse spaces with application to numerical upscaling and multi-evel Monte Carlo simulations. //

Chris Vogl, Department of Applied Mathematics, University of Washington, The Level Set Method: New approaches to combating mass loss and curvature instability. //

### Links:

https://sites.google.com/a/pdx.edu/pnwnas2014/

### File Uploads:

Additional Upload 1: http://www.pims.math.ca/files/final\_report/pnwnas2014\_abstracts.pdf