

# Program

## March 20 (Monday)

- 10:00 – 10:15 Opening
- 10:20 – 11:10 M.M. Lavrentiev, Jr. (Sobolev Institute for Mathematics)  
Tsunami related joint project of FASI (Russian Federation) and CRDF (USA)
- 11:10 – 12:00 T. Takahashi (Akita University)  
TBA
- 12:00 – 14:00 Lunch Break
- 14:00 – 14:50 A.G. Marchuk (Institute of Comput. Math. & Math. Geophysics)  
A.Yu. Bezhaev (UGRA Research Institute of Information Tech.)  
The gridded digital bathymetry creating using the depth soundings data
- 14:50 – 15:50 T. Kano (Institut Vercors)  
Water waves KdV hierarchy
- 15:50 – 16:10 Break
- 16:10 – 17:30 A. V. Avdeev (Intel Novosibirsk Research Laboratory)  
Intel MKL Inverse Problems Toolkit: Performance and Areas of Applications
- 18:00 – 20:00 Welcome Party

## March 21 (Tuesday)

- 10:00 – 10:50 M.M. Lavrentiev, Jr. (Sobolev Institute for Mathematics)  
K.V. Simonov (Institute of Comput. Modeling)  
Neural network analysis of data for natural processes monitoring”
- 10:50 – 11:40 M. Ogawa (Tokyo University of Science)  
Vortical flows of an incompressible ideal fluid with free boundary
- 11:40 – 12:00 Break
- 12:00 – 12:50 V. Titov (Pacific Marine Environment Laboratory, NOAA)  
Facilities for Real-Time Tsunami Forecasting: DARTS, FACTS, etc.
- 12:50 – 14:30 Lunch Break
- 14:30 -- Free Talk

## March 22 (Wednesday)

10:00 – 10:50 P. Tkalich (National University of Singapore)  
Tsunami simulation project in Singapore

10:50 – 11:40 K. Hirata (Japan Agency for Marine-Earth Science and Technology)  
Tsunami source modeling and observations

11:40 – 12:00 Break

12:00 – 12:50 A.G. Marchuk (Institute of Comput. Math. & Math. Geophysics)  
A. Grishaeva (Novosibirsk State University)  
Method for the tsunami wave rays definition in the areas with variable depth

12:50 – 14:30 Lunch Break

14:30 – 15:20 A.Yu. Bezhaev (UGRA Research Institute of Information Tech.)  
Numerical Inversion of real-time tsunami data: Brute Force Approach

15:20 – 16:10 H. Matsutomi (Akita University)  
Topics Related to Floating Bodies accompanied with Tsunamis

16:10 – 16:30 Break

16:30 – 17:20 V. Titov (Pacific Marine Environment Laboratory, NOAA)  
Experience of PMEL NOAA in Tsunami Forecasting and Modeling

#### March 23 (Thursday)

10:00 – 10:50 A.G. Marchuk (Institute of Comput. Math. & Math. Geophysics),  
K.V. Simonov (Institute of Comput. Modeling)  
V. Titov (Pacific Marine Environment Laboratory, NOAA)  
Possibilities for parallelization of direct tsunami computations

10:50 – 11:40 T. Kakinuma (Port and Airport Research Institute)  
3D numerical simulation of tsunami generation, propagation and runup

11:40 – 12:00 Break

12:00 – 12:50 M.M. Lavrentiev, Jr. (Sobolev Institute for Mathematics)  
K.V. Simonov (Institute of Comput. Modeling)  
New information-computation technologies to solve basic problems of  
earthquake and tsunami monitoring

12:50 – 14:30 Lunch Break

14:30 – 15:20 I. Trooshin (Institute for Problems of Precision Mech. & Control)  
On the inverse scattering problem on graphs

15:20 – 16:10 H. Matsumoto (Japan Marine Science and Technology Center)  
Dynamic tsunami simulation technique – its development and implementation

16:10 – 16:30 Break

16:30 – 17:20 V. Titov (Pacific Marine Environment Laboratory, NOAA)

World of Tsunami 2006: players, trends and issues

March 24 (Friday)

10:00 – 10:50 P. Tkalich (National University of Singapore)

3D hydrodynamic computation over real bathymetry

10:50 – 11:40 H. Yasuda (Civil Engineering Research Institute of Hokkaido)

Tsunami Runup onto a Land and a River

11:40 – 12:00 Break

12:00 – 12:50 A.Yu. Bezhaev (UGRA Research Institute of Information Tech.)

Spatial data visualization in the form of semitransparent cubes

12:50 – 14:30 Lunch Break

14:30 – 15:20 T. Iguchi (Tokyo Institute of Tech.)

Long wave approximations for capillary-gravity waves

15:20 – 16:10 A.G. Marchuk (Institute of Comput. Math. & Math. Geophysics)

K.V. Simonov (Institute of Comput. Modeling)

Wavelet transform of geomonitoring data

16:10 – Closing