

FINAL REPORT

The 2011 [Gene Golub SIAM Summer School](#) (G2S3) took place on the campus of the University of British Columbia in Vancouver, Canada, on July 4-15, 2011. The theme of the summer school was Waves and Imaging. A diverse international crowd of 50 selected graduate students took part in the event. Four mini-courses were given by Margaret Cheney (radar imaging, RPI), Frank Natterer (computerized tomography, WWU Muenster), Josselin Garnier (imaging in random media, Paris VII), and Laurent Demanet (seismic imaging, MIT). Lectures were given in the morning, and the afternoons were reserved for computer exercises.

Generous funding for the event came from SIAM (Society for Industrial and Applied Mathematics), PIMS (Pacific Institute for the Mathematical Sciences), NSF (US National Science Foundation), and MITACS (Mathematics of Information Technology and Complex Systems.) The funds were used to cover the travel and local expenses of all the participants who indicated a need. There was no registration fee.

The focus of the summer school was on the interdisciplinary mathematics underlying different modalities of tomographic imaging such as radar, medical CT, and seismic. This format is not normally offered in a university setting. The summer school was a success by many accounts, including the feedback received from the SIAM survey, informal conversations, and the obvious engagement and hard work of the students toward learning the material. The social aspects of the school were also a success: the students had many extra-scholar activities (including weekend outings) and the group will keep in touch via a Facebook group and an email list. It was also nice to see that many students had extended their stay for the ICIAM conference, also in Vancouver and right after the summer school.

Participants:

Acosta, Sebastian
Al-Aifari, Reema
Allavena, Silvia
Ambikasaran, Sivaram
Andrew, Victoria
Aprahamian, Mary
Asnaashari, Amir
Birkisson, Asgeir
Boulier, Thomas
Chowdhary, Kenny
Crestel, Ben
Curtis, Charlotte
Davis, Jacque

Efimova, Ekaterina
Farmer, Brittan
Giorgi, Giovanni
Hahn, Bernadette
Hall, James
Haunton, Rebecca
Howarth, Charlotta
Jumah, Bander
Kirmani, Ahmed
Kurrant, Douglas
Letourneau, Pierre-David
Li, Honglei
Lienart, Thibaut
Lin, Tim
Macedo, Ives
Marano, Stefano
Maxwell, Nicholas
Michenkova, Marie
Mohan, Jayanth
Mohy-uh-Din, Hassan
Ning, Tu
Nunes, Vitor
Parks, Helen
Poderico, Mariana
Ramirez, Carlos
Richardson, Mark
Rothauge, Kai
Ryu, Ernest
Saibaba, Arvind
Semenov, Dmitriy
Thaler, Andy
Tsuji, Paul
Turner, Tiara
Vikentiy, Mikheev
Voisey, Ruth
Vukicevic, Iva
Wason, Haneet
Yan, Jiupeng
Yan, Ming
Yang, Haizhao
Yang, Yi
Zepeda, Leonardo

Zhang, Hai