



Technical Seminar on Reference Frames in Practice

Reference Frames, Kinematics and Dynamic Datums

*Istanbul, Turkey
4-5 May 2018*

Venue: ICC (Istanbul Congress Center), Istanbul

PROGRAMME

Friday 4 May 2018

08:30 – 09:00 Welcome and Opening Remarks

Prof. Dr. Muzaffer Kahveci (Convenor)

Prof. Dr. Volker Schwieger (International Federation of Surveyors-FIG)

Ms. Sharafat Gadimova (International Committee on Global Navigation Satellite Systems-ICG)

Dr. Dan Roman (International Association of Geodesy-IAG)

09:00 – 10:00 Session 1: Introduction to 3D/Vertical Reference Frames

1) Introduction to 3D Reference Frames

Mr. Nic Donnelly, Land Information New Zealand

2) Introduction to Vertical Reference Frames and Datums

Dr. Dan Roman, NOAA National Geodetic Survey National Oceanic & Atmospheric Administration

10:00 – 10:30 Morning Tea

10:30 – 11:30 Session 2: Kinematic Frames and Deformation Modelling

3) Kinematic Frames and Deformation Modelling

Dr. Chris Pearson, University of Otago

4) Practical implementation of time-dependent reference frames

Mr. Richard Stanaway, UNSW Sydney

11:30 – 12:30 Lunch

12:30 – 13:30 Session 3: Dynamic Datum and Modelling of Crustal Deformation

5) Development of deformation models to support Dynamic and semi-dynamic Datums
Dr. Chris Pearson, University of Otago

6) Crustal deformations in Fennoscandia, and Dynamic reference frames: case study Iceland
Dr. Martin Lidberg, Lantmäteriet – the Swedish Mapping Cadastral and Land registration Authority

13:30 – 14:30 Session 4: Case Studies 1

7) Case Study of Europe (ETRS89 and ERVS)
Dr. Martin Lidberg, Lantmäteriet – the Swedish Mapping Cadastral and Land registration Authority

8) Case study of USA
Dr. Dan Roman, NOAA National Geodetic Survey National Oceanic & Atmospheric Administration

14:30 – 15:00 Afternoon Tea

15:00 – 16:00 Session 5: Case Studies 2

9) Case Study of Russia
Dr. Leonid Lipatnikov, Siberian State University of Geosystems and Technology

10) Case study of New Zealand
Mr. Graeme Blick, Land Information New Zealand

16:00 – 17:30 Session 6: Vertical Control Network and Earthquakes in Turkey

11) Height Reference System Modernization in Turkey: Current Status and Future Plans
Assoc. Prof. Dr. Hasan Yildiz, General Command of Mapping

12) Semi-Dynamic Reference Frame Realization in Turkey: Towards an Improved Velocity Field Model
Dr. Ali İhsan Kurt, General Command of Mapping

13) Monitoring Seismo-geodetic Behaviour of Earth's Crust in Marmara Region: KandilliNet
Prof. Dr. Haluk Ozener, Bogazici University, Kandilli Observatory and Earthquake Research Institute

17:30 – 19:00 Session 7: International Geodesy Initiatives and Geodetic Infrastructure

14) ICG at UN
Ms. Sharafat Gadimova, United Nations Office for Outer Space Affairs

15) United Nations Global Geospatial Information Management (UN-GGIM)
Dr. Dan Roman, NOAA National Geodetic Survey National Oceanic & Atmospheric Administration

16) Sponsor presentations

19:30 Seminar Dinner

Saturday 5 May 2018

09:00 – 10:00 Session 8: GNSS and Geodetic Software

17) Introduction of RTK-LIB

Mr. Ryan Ruddick, Geoscience Australia, Dr. Suelynn Choy, RMIT University

18) Introduction to the SNAP least squares computation software

Mr. Nic Donnelly, Land Information New Zealand

10:00 – 10:30 Morning Tea

10:30 – 11:30 Software Demonstration

Mr. Ryan Ruddick, Geoscience Australia, Dr. Suelynn Choy, RMIT University, Mr. Nic Donnelly, Land Information New Zealand

11:30 Closing Remarks – FIG Commission 5, IAG

12:00 – 12:30 Lunch (Lunch Box)

Afternoon: Technical Tour in North Anatolian Fault Zone

Registration and Payment – The fee will be kept to a minimum, and will include seminar material, morning and afternoon teas, lunches and seminar dinner. The expected seminar fee is €150 per person. Please do your registration via the FIG 2018 website as soon as possible: <http://www.fig.net/fig2018/registration.htm>.

More Information

- For general seminar enquiries and invitation letter for visa purpose – Li Zhang (li.zhang@ingeo.uni-stuttgart.de) and Volker Schwieger (volker.schwieger@ingeo.uni-stuttgart.de).
- Participants will be expected to organise and book their own travel and accommodation. For accommodation options please refer to the FIG 2018 website - <http://www.fig.net/fig2018/accommodation.htm>.
- For other travel information please refer to the FIG 2018 website for further information - <http://www.fig.net/fig2018/index.htm>.

ICG Funding

ICG are kindly providing financial assistance for eligible participants, with preference given to participants from developing countries. Financial assistance will only cover travel costs, and will NOT include costs such as accommodation, travelling allowance for food / beverages, etc. The organisers will decide on who will be sponsored. Please send your application to Li Zhang (li.zhang@ingeo.uni-stuttgart.de) and Volker Schwieger (volker.schwieger@ingeo.uni-stuttgart.de) as soon as possible, but not later than **16 March 2018**. In your application please provide a business case as to why you should be given ICG financial assistance as well as an estimate of the amount of assistance (cost of flight tickets) you are seeking.

The organisers FIG, IAG, UN ICG and HKMO would like to thank and acknowledge the following sponsors for their generous support of this event.

