

**2012 INTERNATIONAL GNSS WORKSHOP
JULY 23-27, 2012
UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN (UWM)
POLAND**

AGENDA

All posters on display Monday-Friday.

Monday, July 23, 2012– Morning

7:30-8:30	Check-in and Badge Pickup	
8:30-10:00	Opening Plenary Session Plenary Room	R. Neilan
8:30	UWM Welcome and Logistics	A. Krankowski
8:35	Official Welcome from UWM Rector	Prof. J. Gorniewicz
8:40	Welcome from Olsztyn President	Dr. P. Grzymowicz
8:45	IGS Welcome, Goals, Strategies, Objectives	U. Hugentobler
9:05	The International GNSS Service (IGS): The Secrets of a Success and the Challenges of the Future	G. Beutler
9:25	IGS Classic Products, Status and Towards the Future	J. Griffiths
9:45	IGS Products for GNSS Applications	T. Springer
10:00-10:30	Break	
10:30-12:00	MGEX Campaign Plenary Room	R. Weber
10:30	The IGS Multi-GNSS-Signals Tracking Campaign MGEX - Planning, Status, Perspectives	R. Weber
10:45	Challenges for Data Centers Supporting the Multi-GNSS Experiment	H. Habrich
11:00	MGEX Data Analysis at CODE - First Experiences	L. Prange
11:15	GNSS Bias Analysis at Shanghai Astronomical Observatory	J. Chen
11:30	Real-Time Stream Conversion to RTCM-3 MSM and RINEX-3 in IGS/MGEX Context	G. Weber
11:45	Discussion	R. Weber
12:00-1:30	Lunch (Mathematics and Computer Sciences building)	

Monday, July 23, 2012 - Afternoon

1:30-3:00	Network Infrastructure and Real-Time Plenary Room	C. Rizos
1:30	The Real-Time Pilot Project and Transitioning to a New IGS Real-Time Service	M. Caissy
1:45	Data Flow and Format Issues to Support a Variety of Real-Time Services/Applications	G. Weber
2:00	Current State of the IGS Network	R. Khachikyan
2:15	Availability and Completeness of IGS Tracking Data	S. Lutz
2:30	IGS Network Challenges: Data Issues, Stations, Network, and Multi-GNSS	I. Romero
2:45	Discussion	C. Rizos
3:00-3:30	Break	
3:30-5:00	GNSS Working Group Splinter Session Location : Splinter Room 1	R. Weber
3:30-5:00	Space Vehicle Orbit Dynamics Working Group Splinter Session Location: Splinter Room 2	M. Ziebart
3:30-5:00	Ionosphere Working Group Splinter Session Location: Splinter Room 3	A. Krankowski
7:00	Ice Breaker Reception Hotel Park	

Tuesday, July 24, 2012 - Morning

8:30-10:00 **IGS and the Geodetic and Wider Community U. Hugentobler** **Plenary Room**

8:30	The IGS: An IAG Service that Delivers	C. Rizos
8:48	The Interactions Between IGS and GGOS	M. Rothacher
9:06	What does FIG Surveyors Expect in Collaborative Partnership with IGS?	L. Hothem
9:24	Multi-GNSS Service Provision: The Role of the International Committee on GNSS and Possible Contributions from the IGS	D. Turner
9:42	The IGS Membership in the International Council of Science's World Data System	R. Neilan

10:00-10:30 **Break**

10:30-12:00 **Multi-GNSS R. Dach** **Plenary Room**

10:30	The International GNSS Service's Plans to Transition from RINEX 2.1X to 3.0X: Timeline, Procedures and Software Tools	K. MacLeod
10:45	Results from IGS Workshop on GNSS Biases, 18–19 January 2012 in Bern	S. Schaer
11:00	WHU's Developments for the GPS Ultra-Rapid Products and the COMPASS Precise Products	C. Shi
11:15	Development of a New Combination Software	E. Schönemann
11:30	Experience from Multi-GNSS Network Processing	A. Hauschild
11:45	Discussion	R. Dach

12:00-1:30 **Lunch (Mathematics and Computer Sciences building)**

Tuesday, July 24, 2012 - Afternoon

- 1:30-3:00** **Poster Session**
Location: Poster Area at Mathematics and Computer Sciences Building.
Presenters on attendance for following poster sessions..
Session P1: The IGS Multi-GNSS Experiment (MGEX)
Session P2: Space Vehicle Orbit Dynamics and Attitude
Session P3: Ionosphere Observations and Modeling
Session P4: Infrastructure and Data Centers
- 3:00-3:30** **Break**
- 3:30-5:00** **Infrastructure Committee Splinter Session I I. Romero**
Location: Splinter Room 1
- 3:30-5:00** **Bias and Calibration Working Group S. Schaer**
Splinter Session
Location: Splinter Room 2
- 3:30-5:00** **Troposphere Working Group Splinter C. Hackman**
Session
Location: Splinter Room 3
- 5:30** **Tour of Astronomy Observatory and Planetarium**
More information provided on first day of workshop.

Wednesday, July 25, 2012 - Morning

8:30-10:00	Modeling Observations and Station Motion	J. Ray/T. van Dam
	Plenary Room	
8:30	Mitigation of Unmodeled Non-Tidal Atmospheric Pressure Loading into Parameters of a Global GNSS Solution	R. Dach
8:50	Summary of the 2012 Global Geophysical Center Workshop	T. van Dam
9:10	Analysis Effects in IGS Station Motion Time Series	P. Rebischung
9:30	Investigation of Non-Tectonic Signals at GPS Stations	C. Meertens
9:50	Discussion	J. Ray
10:00-10:30	Break	
10:30-12:00	Atmospheric Delay Modeling and Applications	A. Krankowski/ C. Hackman
	Plenary Room	
10:30	GNSS Data and the Real-Time International Reference Ionosphere	D. Bilitza
10:45	Validation of GPS Signals During Geomagnetic and Ionospheric Disturbances	H. Rothkaehl
11:00	Recent JPL Advances in Ionospheric Specifications and Potential New Applications Using Ground on Space-Based GNSS Measurements	A. Komjathy
11:15	Modeling the Neutral Atmosphere Propagation Delay at UNB: Past, Present, and Future	M. Santos
11:30	Global Near-Real Time, Multi-GNSS and Ultra-Fast Troposphere Estimation at Geodetic Observatory Pecny	J. Dousa
11:45	GPS Meteorology With Single Frequency Receivers	Z. Deng
12:00-1:30	Lunch (Mathematics and Computer Sciences building)	

Wednesday, July 25, 2012 - Afternoon

1:30-3:00	Poster Session Location: Poster Area at Mathematics and Computer Sciences Building Presenters on attendance for following poster sessions. Session P5: Biases and Calibrations Session P6: Estimation and Application of GNSS-Based Troposphere Delay Session P7: Real-Time Services and Applications Session P8: Antenna Calibrations	
3:00-3:30	Break	
3:30-5:00	Real-Time Working Group Splinter Session Location: Splinter Room 1	M. Caissy
3:30-5:00	Antenna Working Group Splinter Session Location: Splinter Room 2	R. Schmid
3:30-5:00	Data Center Working Group Splinter Session Location: Splinter Room 3	C. Noll
7:00	Workshop Dinner Hotel Park	

Thursday, July 26, 2012 - Morning

8:30-10:00	Space Vehicle Dynamics and Attitude, Clock Modeling and Time Scale Realizations	M. Ziebart
	Plenary Room	
8:30	Rotational Errors in IGS Orbit and ERP Products	J. Ray
8:50	GNSS Satellite Attitude Characteristics During Eclipse Season	F. Dilssner
9:10	Current Status of Non-Conservative Force Modeling and its Interface to REPRO2	M. Ziebart
9:30	GPS Timescale and Definition of IGS Timescale	K. Senior
9:50	Discussion	M. Ziebart
10:00-10:30	Break	
10:30-12:00	Antenna Calibration Modeling and Errors	R. Schmid
	Plenary Room	
10:30	Three-Method Absolute Antenna Calibration Comparison	A. Bilich
10:45	Modeling and Correction of Carrier Phase Multipath Effects	C. Rost
11:00	Extension of the GPS Satellite Antenna Patterns to Nadir Angles Beyond 14°	R. Dach
11:15	Estimation of Azimuthal Satellite Antenna Phase Center Variations	F. Dilssner
11:30	The Geodetic Reference Antenna in Space (GRASP) – A Mission to Enhance the Terrestrial Reference Frame	Y. Bar-Sever
11:45	Discussion	R. Schmid
12:00-1:30	Lunch (Mathematics and Computer Sciences building)	

Thursday, July 26, 2012 - Afternoon

- 1:30-3:00** **Poster Session**
 Location: Poster Area at Mathematics and Computer Sciences Building
Presenters on attendance for following poster sessions.
Session P10: Analysis Combination Center and Reference Frame
Session P11: Tide Gauge Benchmark Monitoring
Session P12: General Geodetic and Geophysical Applications of IGS Products
- 3:00-3:30** **Break**
- 3:30-5:00** **Analysis Center Coordinator and Reference J. Griffiths**
 Frame Working Group Splinter Session
 Location: Splinter Room 1
- 3:30-5:00** **Clock Product Working Group Splinter K. Senior**
 Session
 Location: Splinter Room 2
- 3:30-5:00** **Tide Gauge Working Group Splinter T. Schoene**
 Session
 Location: Splinter Room 3
- 3:30-5:00** **Infrastructure Committee Splinter Session II I. Romero**
 Location: Splinter Room 4
- 5:30** **Tour of Olsztyn**
 More information provided on first day of workshop.

Friday, July 27, 2012

8:30-10:00	Geodetic Applications of IGS Products Plenary Room	G. Blewitt
8:30	GNSS Analysis for Weather Applications Based on IGS Products	R. Pacione
8:48	Low-Latency Earthquake Displacement Fields for Tsunami Early Warning and Rapid Response Support	G. Blewitt
9:06	Strengths and weaknesses of the IGS contribution to the ITRF	Z. Altamimi
9:24	The Effects of Using Inconsistent Correction Models for PPP Users with IGS Products	T. van Dam
9:42	UNAVCO's Community Planning for Real-Time GPS in Earthscope's Plate Boundary Observatory Using IGS Products	C. Meertens
10:00-10:30	Break	
10:30-12:00	Splinter Working Group Reports and Recommendations Plenary Room	U. Hugentobler
10:30	Infrastructure Committee	I. Romero
10:37	Data Center Working Group	C. Noll
10:44	Real-Time Working Group	M. Caissy
10:51	GNSS Working Group	R. Weber
10:58	Bias and Calibration Working Group	S. Schaer
11:05	Ionosphere Working Group	A. Krankowski
11:12	Troposphere Working Group	C. Hackman
11:19	Antenna Working Group	R. Schmid
11:26	Clock Product Working Group	K. Senior
11:33	Space Vehicle Orbit Dynamics Working Group	M. Ziebart
11:40	Analysis Center Coordinator and Reference Frame Working Group	J. Griffiths
11:47	Tide Gauge Working Group	T. Schoene
11:54	Discussion and Closing Remarks	U. Hugentobler
12:00-1:30	Lunch (Mathematics and Computer Sciences building)	
1:30-5:00	Governing Board Meeting Conference Room, Hotel Park Governing Board Members Only	