

16th International Workshop on Laser Ranging
Poznań, Poland
October 11-17, 2008

Saturday, October 11

17:00	Data Formats and Procedures Working Group meeting - Room A (TENERYFA)
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Sunday, October 12

09:00 - 17:00	Analysis Working Group meeting - Room A (TENERYFA)
19:00	Program Committee Meeting - Room A (TENERYFA)
17:00 - 21:00	On-Site Registration

Monday, October 13

08:00 - 09:00	On-Site Registration
09:00 - 10:00	Welcome/Introduction
10:00 - 10:30	Break

Scientific Achievements, Applications and Future Requirements (first session)

Zuheir Altamimi, IGN, France

Steven Klosko, SGT, USA

10:30 - 10:45	Laser Ranging Contributions to Earth Rotation Studies	<i>Richard Gross</i>
10:45 - 11:00	Geocenter Motion: Causes and Modeling Approaches	<i>Erricos C. Pavlis, Magdalena Kuzmicz-Cieslak</i>
11:00 - 11:15	International Terrestrial Reference Frame - Latest Developments	<i>Horst Mueller</i>
11:15 - 11:30	Status of ITRF Development and SLR contribution	<i>Zuheir Altamimi</i>
11:30 - 11:45	Determination of the SLR station coordinates and velocities on the basis of laser observations of low satellites	<i>P. Lejba, S. Schillak</i>
11:45 - 12:00	Temporal variations of the Earth gravity field derived from SLR Data over a long period of time	<i>Florent Deleflie, Pierre Exertier, Olivier Laurain, Dominique Feraudy, Jean-Michel Lemoine</i>
12:00 - 12:15	A 33 Year Time History of the Earth Dynamic Oblateness changes from SLR data	<i>Minkang Cheng, Byron D. Tapley</i>
12:15 - 12:30	ICESat, GRACE, and Time Varying Gravity: SLR Contributions and Applications	<i>S. B. Luthcke, D. D. Rowlands, F. G. Lemoine, H. J. Zwally, S. M. Klosko, D. S. Chinn, J. J. McCarthy, T. A. Williams</i>
12:30 - 14:00	Lunch	

Scientific Achievements, Applications and Future Requirements (second session)

Zuheir Altamimi, IGN, France

Steven Klosko, SGT, USA

14:00 - 14:15	Use of SLR Observations to improve Galileo GIOVE-B Orbit and Clock Determination	<i>I. Hidalgo, A. Mozo, P. Navarro, R. Piriz, D. Navarro-Reyes</i>
14:15 - 14:30	Orbit Determination of LRO at the Moon	<i>David E. Smith, Maria T. Zuber, Frank G. Lemoine, Mark H. Torrence, Erwan Mazarico</i>
14:30 - 14:45	Comparison and Combination of SLR Solutions Including Gravity Field Coefficients and Range Biases	<i>N. Panafidina, M. Rothacher, D. Thaller</i>
14:45 - 15:00	Measurement of Anomalous Angle of Deviation of Light During Satellite Laser Ranging	<i>Yuriy V. Ignatenko, Vladimir M. Tryapitsyn, Andriy A. Makeyev, Igor Yu. Ignatenko</i>
15:00 - 15:15	Overview of the Science Results from ICESat	<i>B. E. Schutz, H. J. Zwally</i>
15:15 - 15:30	Planetary Laser Altimetry; Past and Present	<i>David E. Smith, Maria T. Zuber</i>
15:30 - 15:45	Volatile Exchange on Mars	<i>Maria T. Zuber, David E. Smith</i>

15:45 - 16:00	Lunar Laser Ranging - A Science Tool for Geodesy and General Relativity	<i>Juergen Mueller</i>
16:00 - 16:30	Break	
Scientific Achievements, Applications and Future Requirements (second session)(continued)		
<i>Zuheir Altamimi, IGN, France</i>		
<i>Steven Klosko, SGT, USA</i>		
16:30 - 16:45	Lunar Core and Mantle. What Does LLR See?	<i>James G. Williams</i>
16:45 - 17:00	Status of the INFN Satellite/lunar laser ranging Characterization Facility (SCF)	<i>S. Dell'Agnello, G. O. Delle Monache, D. G. Currie, R. Vittori et al</i>
17:00 - 17:15	Confirming the Frame-Dragging Effect with Satellite Laser Ranging	<i>John C. Ries, Richard J. Eanes, Michael M. Watkins</i>
17:15 - 17:30	Status of the LARES Experiment for Accurate Measurements of Earth Gravitomagnetism	<i>Ignazio Ciufolini, Antonio Paolozzi, Erricos Pavlis</i>
17:30 - 17:45	New accurate atmospheric correction of SLR observations	<i>D.D. Wijaya, F.K. Brunner</i>
17:45 - 18:00	<i>Posters</i>	
	Evaluation of PPN parameter Gamma as a test of General Relativity using SLR data	<i>Ludwig Combrinck</i>
	Preparing the Bernese GPS Software for the analysis of SLR observations to geodetic satellites	<i>D. Thaller, M. Mareyen, R. Dach, W. Gurtner, G. Beutler, B. Richter, J. Ihde</i>
	The methods of converting observation data of SLR between two nearby stations	<i>Pap V., Medvedsky M.</i>
	Estimation of the elastic Earth parameters k_2 and k_3 from the SLR technique	<i>Milena Rutkowska, Marcin Jagoda</i>
19:00	Reception at Andersia hotel	

Tuesday, October 14

The role of Satellite Laser Ranging in the Global Geodetic Observing System

Erricos Pavlis, JCET/UMBC and NASA GSFC, USA

Horst Mueller, DGF, Germany

08:00 - 08:15	The Contribution of Laser Ranging to the Global Geodetic Observing System	<i>Richard Gross</i>
08:15 - 08:30	Quality Assessment of the ILRS EOP 'DAILY' Product	<i>C. Sciarretta, V. Luceri, G. Bianco</i>
08:30 - 08:45	ESOC IGS, IDS, and ILRS (Re-) Processing	<i>Tim Springer, Michiel Otten, Nacho Romero, John Dow</i>
08:45 - 09:00	The comparison of the station coordinates between SLR and GPS	<i>S. Schillak, M. Lehmann</i>
09:00 - 09:15	SLR and the Next Generation Global Geodetic Networks of low satellites	<i>Erricos C. Pavlis, Magdalena Kuzmicz-Cieslak</i>
09:15 - 09:20	<i>Posters</i>	
	SLR, GNSS, VLBI, and DORIS Networks: ILRS+IGS+IVS+IDS	<i>Carey Noll</i>
	The Virtual Observatory in Geodesy and Earth's Sciences: The French activities	<i>Florent Deleflie, Sébastien Lambert, Pierre Exertier, A.-M. Gontier, C. Barache</i>

Network and Station Performance

Vincenza Luceri, e-GEOS, CGS, Italy

Mark Torrence, NASA GSFC, USA

09:20 - 09:35	Multi-Satellite Daily Bias Report: How to Read and Handle it	<i>Toshimichi Otsubo, Mihoko Kobayashi, Tadahiro Gotoh and Toshihiro Kubo-oka</i>
09:35 - 10:00	Assessment of SLR observation performance using LAGEOS data	<i>Gang ZHAO, You ZHAO, Mingguo SUN, Huanhuan YU</i>
10:00 - 10:30	Break	

Network and Station Performance (continued)

<i>Vincenza Luceri, e-GEOS, CGS, Italy</i>		
<i>Mark Torrence, NASA GSFC, USA</i>		
10:30 - 10:45	Attempts to separate apparent observational range bias from true geodetic signals	<i>Graham Appleby, Matthew Wilkinson, Vincenza Luceri, Philip Gibbs, Victoria Smith</i>
10:45 - 11:00	Sub-centimeter SLR precision with the SLRF2005/LPOD2005 network	<i>N.P. Zelensky, F.G. Lemoine, D.D. Rowlands, S.B. Luthcke, D.S. Chinn, J.W. Beall, B.D. Beckley, S.M. Klosko, P. Willis, V. Luceri</i>
11:00 - 11:15	NGSLR Performance in High and Low Energy Operation	<i>Peter Dunn, Christopher Clarke, Mark Torrence</i>
11:15 - 11:30	Development of quality control tools for the MLRO	<i>G. Bianco, V. Luceri, D. Iacovone</i>
11:30 - 11:45	Challenges of the TerraSAR-X/TanDEM-X formation	<i>Krzysztof Snopek, Ludwig Grunwaldt, Rolf Koenig</i>
11:45 - 12:00	Improved Modeling Approaches Towards the mm SLR	<i>E.C. Pavlis, M. Kuzmich-Cieslak, and P. M. Hinkey</i>
12:00 - 12:15	ITRF datum and ILRS network geometry	<i>V. Luceri, G. Bianco, C. Sciarretta, M. Virelli</i>
12:15 - 12:20	<i>Posters</i>	
	Assessing Tracking Performance of High Satellites at Mt Stromlo SLR Station	<i>Christopher Moore</i>
12:20 - 13:45	Lunch	
Lunar and Interplanetary Laser Ranging		
<i>Juergen Mueller, University of Hannover, Germany</i>		
<i>Tom Murphy, UCSD, USA</i>		
13:45 - 14:00	Millimeter Laser Ranging to the Moon: a comprehensive theoretical model for advanced data analysis	<i>Sergei Kopeikin</i>
14:00 - 14:15	APOLLO: One-millimeter Lunar Laser Ranging	<i>T. W. Murphy, E. G. Adelberger, J. B. R. Battat, C. D. Hoyle, R. J. McMillan, E. L. Michelsen, C. W. Stubbs, and H. E. Swanson</i>
14:15 - 14:30	Earth Orientation Parameters from Lunar Laser Ranging	<i>Liliane Biskupek, Jürgen Müller</i>
14:30 - 14:45	Status of the LLRRA21/MoonLIGHT NASA LSSO project	<i>D. G. Currie, S. Dell'Agnello, G. O. Delle Monache, R. Vittori et al</i>
14:45 - 15:00	Laser Ranging to the Lunar Reconnaissance Orbiter: a Global Network Effort	<i>Jan McGarry, Thomas Zagwodzki, Ronald Zellar, Mark Torrence, Julie Horvath, Christopher Clarke, Donald Patterson, John Cheek, Randall Ricklefs, Anthony Mallama, Carey Noll, Mike Pearlman, Greg Neumann</i>
15:00 - 15:15	Pre-Launch Testing of NGSLR Ranging to LRO	<i>Anthony Mallama, Jan McGarry, Tom Zagwodzki and Jack Cheek</i>
15:15 - 15:30	LR-LRO Data Flow and Scheduling Operations	<i>Christopher Clarke, Julie Horvath, Jan McGarry, Thomas Zagwodzki, Carey Noll, David Carter, Mark Torrence, Greg Neumann</i>
15:30 - 15:45	LRO Operations at the MLRS	<i>Jerry R. Wiant, Randall L. Ricklefs, Peter J. Shelus</i>
15:45 - 16:00	One-Way Ranging to the Planets	<i>Maria T. Zuber, David E. Smith</i>
16:00 - 16:05	<i>Posters</i>	
	The contribution of LLR data to the estimation of the celestial pole coordinates	<i>Wassila Zerhouni, Nicole Capitaine, Gerard Francou</i>
	Analysis and prediction of altimetric sea level variations during ENSO, and normal conditions	<i>Tomasz Niedzielski, Wieslaw Kosek</i>

16:05 - 16:30	Break
16:30 - 18:00	Transponder Working Group - LRO meeting
18:30	Trip to Borowiec Observatory, Reception

Wednesday, October 15

High repetition-rate systems

Georg Kirchner, AAS, Austria

Jan McGarry, NASA GSFC, USA

08:30 - 08:45	Development of Any Frequency Fire Rate SLR Control System	<i>Cunbo FAN, Xue DONG, Xingwei HAN, You ZHAO</i>
08:45 - 09:00	The Experiment of kHz Laser Ranging with Nanosecond Pulsesat Shanghai SLR	<i>Zhang Zhongping, Yang Fumin, Chen Juping, Zhang Haifeng, Wu Zhibo, Qin Si, Li Pu</i>
09:00 - 09:15	NGSLR: Sharing Eye-safe Kilohertz SLR with Transponder Ranging	<i>Jan McGarry, Thomas Zagwodzki, Tom Varghese, John Degnan, Donald Patterson, John Cheek, Christopher Clarke, Anthony Mann, Peter Dunn, Randall Ricklefs, Anthony Mallama</i>
09:15 - 09:30	Transmitter Point-Ahead using Dual Risley Prisms: Theory and Experiment	<i>John Degnan, Jan McGarry, Thomas Zagwodzki, Thomas Varghese</i>
09:30 - 09:45	Impact of Receiver Deadtime on Photon-Counting SLR and Altimetry during Daylight Operations	<i>John Degnan</i>
09:45 - 10:00	High speed Pockels cell shutter and the Herstmonceux MCP-PMT detector	<i>Matthew Wilkinson</i>
10:00 - 10:30	Break	

High repetition-rate systems (continued)

Georg Kirchner, AAS, Austria

Jan McGarry, NASA GSFC, USA

10:30 - 10:45	The New 100-Hz Laser System in Zimmerwald: Concept, installation and first experiences	<i>W. Gurtner, E. Pop, J. Utzinger</i>
10:45 - 11:00	16 years of LAGEOS-2 Spin Data: From launch to present	<i>Daniel Kucharski, Georg Kirchner, Franz Koidl</i>
11:00 - 11:15	kHz Single-Photon Ranging: A Precise Tool to Retrieve Optical Response of Satellites	<i>Toshimichi Otsubo, Philip Gibbs and Graham M Appleby</i>
11:15 - 11:30	Millimeter Accuracy from Centimeter Targets	<i>Georg Kirchner, Daniel Kucharski, Franz Koidl</i>
11:30 - 11:45	Graz kHz SLR LIDAR: First Results	<i>Georg Kirchner, Franz Koidl, Daniel Kucharski</i>
11:45 - 12:00	<i>Posters</i>	
	Medium Resolution Event Timer and Range Gate Generator in Graz FPGA Card	<i>Farhat Iqbal, Franz Koidl, Georg Kirchner</i>
	Development of the Electronic Circuit in High Frequency SLR Based on FPGA	<i>Chong CHEN, Cunbo FAN, Zhenwei LI, You ZHAO</i>
	Minimization of systematic errors in satellite laser ranging with high pulse repetition rate	<i>M.A. Sadovnikov</i>

Lasers, Detectors, and Timers

Ivan Prochazka, CTU, Czech Republic

Yuri Artyukh, IECS, Latvia

12:00 - 12:15	Advances of High-precision Riga Event Timers	<i>Yu. Artyukh, V. Bespalko, E. Boole, V. Vedin</i>
12:15 - 12:30	Advances of multi kHz repetition rate picosecond laser system for satellite laser ranging	<i>Huber Heinz, Schmidt Michael, Zoppel Sandra</i>
12:30 - 13:00	Signal Processing WG meeting (room C - MAJORKA)	

12:30 - 14:00	Lunch	
Lasers, Detectors, and Timers(continued)		
<i>Ivan Prochazka, CTU, Czech Republic</i>		
<i>Yuri Artyukh, IECS, Latvia</i>		
14:00 - 14:15	Compact Event Timing and Laser Fire Control Device for One Way Laser Ranging	<i>Jan Kodet, Ivan Prochazka</i>
14:15 - 14:28	Photon counting detectors for future laser time transfer missions	<i>Ivan Prochazka, Josef Blazej</i>
14:28 - 14:40	Potentialities of common-used TDC chips for high-speed event timer design	<i>E. Boole, V. Vedin</i>
14:40 - 14:52	Progress in sub-picosecond timing system development	<i>Ivan Prochazka, Petr Panek</i>
14:52 - 15:04	Fast Switching Pockels Cell Driver for SLR Laser System	<i>Josef Koelbl, Michael Froeschl, Adam Seedsman, Yue Gao, Murray Dawson</i>
15:04 - 15:16	Narrow-band holographic filters for SLR	<i>V.L.Moshkov</i>
15:16 - 15:28	Saturable Absorber Laser Upgrade	<i>T. Oldham, H. Donovan, M. Blount, J. Horvath, O. Brogdon, D. McCollums</i>
15:28 - 15:30	<i>Posters</i>	
	Applications of Riga Event Timer at Shanghai SLR	<i>Zhang Zhongping, Yang Fumin, Zhang Haifeng, Wu Zhibo, Chen Juping, Yu Artyukh</i>
Software and Automation		
<i>Randy Ricklefs, CSR, USA</i>		
15:30 - 15:45	Automation - Recent Progress at Mt Stromlo SLR Station	<i>Christopher Moore</i>
15:45 - 16:00	New ideas in control software for LR-systems with remote assessable, autonomous process cells	<i>Alexander Neidhardt</i>
16:00 - 16:30	Break	
Software and Automation		
<i>Randy Ricklefs, CSR, USA</i>		
16:30 - 16:45	SLR Data Automatic Preprocessing	<i>Ding Jian, Qu Feng, Wei Zhibin</i>
16:45 - 17:00	SLR station Riga software upgrade	<i>Kalvis Salminsh</i>
17:00 - 17:15	On the Generation of SLR Output Files at Mt Stromlo	<i>Christopher J. Moore</i>
17:15 - 17:30	Implementing the new ILRS CRD data format	<i>Magdalena Kuzmicz-Cieslak, Erricos C. Pavlis</i>
17:30 - 17:45	<i>Posters</i>	
	The new pointing model of telescope based on tracking data	<i>M. Medvedsky, V.Pap</i>
18:00 - 18:30	WPLTN meeting	
18:30 - 19:00	Missions WG meeting	
19:00	ILRS Governing Board Meeting	

Thursday, October 16		
New and Upgraded Stations, Extended Facilities		
<i>Francis Pierron, OCA, France</i>		
<i>Stanislaw Schillak, SRC, Poland</i>		
08:30 - 08:45	Upgrading Plan of the Chinese SLR Network	<i>Yang Fumin, Wu Bin, Zhang Zhongping, Guo Tangyong</i>
08:45 - 09:00	Status and Progress of ARGO	<i>Jong Uk Park, Hyung-Chul Lim, Yoon-Kyung Seo, Young-Su Kim, Jang-Hyun Park, Young Su Son and Yong Ki Kim</i>
09:00 - 09:15	The Requirements for ARGO Operation System	<i>Yoon-Kyung Seo, Hyung-Chul Lim, In-Kwan Park, Hong-Seo Im, Jong-Uk Park</i>

09:15 - 09:30	MEO : The New French Lunar Laser Ranging Station	<i>Etienne Samain, Abdel Abchiche, Dominique Albanese, Nicolas Geyskens, Gilles Buchholtz, Aurélien Drean, Julien Dufour, Jérôme Eysseric, Pierre Exertier, Francis Pierron, Monique Pierron, Grégoire Martinot Lagarde, Jocelyn Paris, Jean-Marie Torre, Hervé Viot</i>
09:30 - 09:45	The upgrading of the Borowiec SLR station	<i>S. Schillak, J. Bartoszak, P. Michalek</i>
09:45 - 10:00	Herstmonceux - towards kHz ranging and multi-technique status	<i>Philip Gibbs, Graham Appleby, David Benham, Christopher Potter, Robert Sherwood, Toby Shoobridge, Vicki Smith and Matthew Wilkinson</i>
10:00 - 10:30	Break	
New and Upgraded Stations, Extended Facilities (continued)		
<i>Francis Pierron, OCA, France</i>		
<i>Stanislaw Schillak, SRC, Poland</i>		
10:45 - 10:55	Posters	
	Ftlrs : Past and currents missions, upgrade for future	<i>Monique Pierron, Francis Pierron, Maurice Furia, Jean Marie Torre, Dominique Feraudy, Etienne Samain and Grasse Laser Staff</i>
	Ukrainian SLR network	<i>Olga Bolotina</i>
	About Current Status of Katzively SLR Station	<i>Andriy A. Makeyev</i>
	Progress of Changchun SLR	<i>You ZHAO, Cunbo FAN, Xinwei HAN, Gang ZHAO, Ziang ZHANG, Xue DONG</i>
	First SLR Operation in Korea using TROS, Chinese Transportable Ranging Observation System	<i>Hyung-Chul Lim, Guo Tangyong, Wang Peiyuan, Hyeon-Seok Jeon, Yoon-Kyung Seo, Jong-Uk Park, Zou Tong</i>
	Actuality and futurity of San Juan 7406 SLR Station	<i>W Liu, Y Han, E Actis, E.Alonso, R. Podesta, A.A. Gonzalez, A.M.Pacheco, L Zhao, C Liu, Z Yin</i>
	Field maintenance of the SLR telescope at TIGO	<i>B. Sierk, M. Avendano, A. Fernandez, V. Moera, C. Guaitiao, R. Castillo</i>
Operational Issues and New Missions		
<i>Michael Pearlman, Harvard-SCA, USA</i>		
<i>Ben Greene, EOS, Australia</i>		
10:55 - 11:10	An overview of ESA's upcoming missions equipped with SLR	<i>M. Otten, T.A. Springer, Daniel Navarro-Reyes, Pierre Femenias, Pierrick Vuilleumier, Rune Floberhagen, Mark Drinkwater, Roger Haagsmans, Berthyl Duesmann, J. Dow</i>
11:10 - 11:25	Applications of the Precision Expandable Radar Calibration Target (PERCS)	<i>Paul A. Bernhardt</i>
11:25 - 11:40	SLR Return Analysis for SOHLA-1	<i>Takahiro Inoue, Shinichi Nakamura, Ryo Nakamura, Keisuke Yoshihara, Hiroo Kunimori and Toshimichi Otsubo</i>
11:40 - 12:00	SLR Return Analysis for Astro-G	<i>Takahiro Inoue, Shinichi Nakamura, Ryo Nakamura, Keisuke Yoshihara and Hiroshi Takeuchi, Hiroo Kunimori and Toshimichi Otsubo</i>
12:00 - 12:30	Posters	
	Satellite Laser Ranging Tracking through the Years	<i>Carey Noll</i>

	ILRS Web Site Update	<i>C. Noll, M. Torrence</i>
	ANDE Concept	<i>Linda Thomas</i>
12:30 - 14:00	Lunch	
Operational Issues and New Missions (continued)		
<i>Michael Pearlman, Harvard-SCA, USA</i>		
<i>Ben Greene, EOS, Australia</i>		
14:00 - 14:15	Considerations for an Optical Link for the ACES Mission	<i>Ulrich Schreiber, Ivan Prochazka</i>
14:15 - 14:30	Aircraft Avoidance Technologies	<i>T. W. Murphy, E. G. Adelberger, J. B. R. Battat, W. Coles, C. D. Hoyle, K. Kassabian, R. J. McMillan, J. Melsner, E. L. Michelsen, C. W. Stubbs, H. E. Swanson, J. Tu, A. White</i>
14:30 - 14:45	Implementing the Consolidated laser Ranging Data (CRD) Format throughout the ILRS Network	<i>Randall Ricklefs, Carey Noll, Julie Horvath, Oscar Brogdon, Erricos Pavlis</i>
14:45 - 15:00	Moblas 8 Return to Operations	<i>Scott Wetzel, Howard Donovan, Julie Horvath, Dennis McCollums, Thomas Oldham, Alice Nelson, Don Patterson, Mike Henick</i>
Targets, Signatures and Biases		
<i>Graham Appleby, NERC SGF, UK</i>		
<i>Toshimichi Otsubo, Hitotsubashi University, Japan</i>		
15:00 - 15:15	Signal Strength Measurements and Retroreflector Array Design	<i>David Arnold</i>
15:15 - 15:30	Effects of Ranging in Circular Polarization	<i>John Luck and Chris Moore</i>
15:30 - 15:45	Laser Retro-reflector Arrays on the Compass Satellites	<i>Chen Wanzhen, Yang Fumin, Wang Yuanming, Li Pu</i>
15:45 - 16:00	Laser Retroreflector Array Development for STSAT-2	<i>Sang-Hyun Lee, Kyunghee Kim, Jun Ho Lee, Jonghan Jin, Noh Hoon Myung</i>
16:00 - 16:28	Break	
Targets, Signatures and Biases (continued)		
<i>Graham Appleby, NERC SGF, UK</i>		
<i>Toshimichi Otsubo, Hitotsubashi University, Japan</i>		
16:28 - 16:43	Optical Response Simulation for ASTRO-G Laser Reflector Array	<i>Toshimichi Otsubo, Mihoko Kobayashi, Hiroo Kunimori, Shinichi Nakamura and Hiroshi Takeuchi</i>
16:43 - 16:45	Posters	
	SLR Coverage Analysis for STSAT-2	<i>Kyunghee Kim, Sang-Hyun Lee, Jun Ho Lee, Jonghan Jin, Noh Hoon Myung</i>
Advanced Systems and Techniques: Transponders, Altimeters, and Time Transfer		
<i>John Degnan, Sigma Space, USA</i>		
<i>Ulrich Schreiber, TU Muenchen GO Wetzell, Germany</i>		
16:45 - 17:00	Engineering process of SLR for LEO orbiters	<i>M. Abele, J. Balodis, M. Caunite, I. Janpaule, A. Rubans, G. Silabriedis, A. Zarinsjh</i>
17:00 - 17:15	BepiColombo Laser Altimeter Simulator	<i>M. Hiener, U. Schreiber, U. Hugentobler</i>
17:15 - 17:30	Globally contiguous, high resolution topographic mapping of planets and moons via photon-counting	<i>John Degnan</i>
17:30 - 17:45	Laser Altimetry and Transponder Ground Based Simulation Experiment	<i>U. Schreiber, M. Hiener, B. Holzapfel, A. Neidhardt, P. Lauber, K.H. Haufe, N. Brandl, J. Oberst, H. Michaelis</i>

17:45 - 18:00	Mars Laser Ranging: Science and Design	<i>T. W. Murphy, J. Degnan, W. Farr, W. Folkner, A. Girerd, H. Hemmati, K. Nordtvedt, R. Reasenberg, S. G. Turyshev, J. G. Williams</i>
18:00 - 18:15	Time Transfer by Laser Link - T2L2: First data	<i>E. Samain, Ph. Guillemot, P. Exertier, D. Albanese, P. Berio, O. Laurain, F. Para, J. Paris, J.-M. Torre, H. Viot, P. Vrancken, I. Petitbon, S. Leon</i>
19:00	Banquet	

Friday, October 17

Advanced Systems and Techniques: Transponders, Altimeters, and Time Transfer (continued)

John Degnan, Sigma Space, USA

Ulrich Schreiber, TU Muenchen GO Wettzell, Germany

08:30 - 08:45	Preliminary Results of the Laser Time Transfer (LTT) Experiment	<i>Yang Fumin, Huang Peicheng, Zhang Zhongping, Chen Wanzhen, Zhang Haifeng, Wang Yuanming, Meng Wendong, Wang Jie, Zou Guangnan, Liao Ying, Wang Luyuan, Ivan Prochazka, Zhao You, Fan Cunbo, Han Xingwei</i>
08:45 - 09:00	Preliminary Results of Laser Ranging to Un-cooperative Targets at Shanghai SLR	<i>Yang Fumin, Zhang Zhongping, Chen Juping, Chen Wanzhen, Wu Zhibo, Zhang Haifeng, Ivan Prochazka</i>
09:00 - 09:15	One Way System Calibration Techniques	<i>Toby Shoobridge, David Benham</i>
09:15 - 09:30	State of the SLR in Russia	<i>Burmistrov V. B., Glotov V.D., Parkhomenko N.N., Sadovnikov M.A., Shargorodsky V.D., Vasiliev V.P.</i>
09:30 - 09:45	<i>Posters</i>	
	New achievements in the simulator of photon counting planetary altimeter	<i>Josef Blazej, Ivan Prochazka</i>
10:00 - 10:30	Break	
10:30 - 13:00	ILRS General Assembly	
13:00 - 14:00	Lunch	
15:00	Tour around Poznań City	

Saturday, October 18

8:00	Excursion to Toruń City, place Nicolaus Copernicus birth
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