Workshop Agenda: Monday, October 27

Session 01:	Welcome
	Stephen Merkowitz/NASA GSFC, Chair Michael Pearlman/SAO, Co-Chair
09:00-09:50	Workshop Welcome and Introduction
	Stephen Merkowitz, Manager, NASA Space Geodesy Project Michael Pearlman, Director, ILRS Central Bureau Giuseppe Bianco, Chair, ILRS Governing Board NASA Welcome GSFC Welcome Dr. John Kress, Interim Under Secretary for Science, Smithsonian Institution Dr. Charles Alcock, Director, Smithsonian Astrophysical Observatory
09:50-10:00	J. McGarry, C. Noll, Workshop Logistics
Session 02:	Historical Perspectives
	Michael Pearlman/SAO, Chair John Degnan, Co-Chair
10:00-10:20	H. Plotkin/NASA GSFC retired, Genesis of Laser Satellite Tracking at the NASA Goddard Space Flight Center (3128)
10:20-10:40	C. Lundquist/University of Alabama in Huntsville, Evolution of Optical Satellite Tracking <i>(3019)</i>
10:40-11:00	Break
11:00-11:20	G. Veis/National Technical University of Athens, From Optical Tracking to Laser Tracking - The Early Years of Satellite (3023)
11:20-11:40	F. Barlier/Observatoire de la Cote d'Azur, Early Satellite Laser Ranging for Geodesy at CNRS, CNES and ONERA in France (3108)
11:40-12:00	J. Bosworth/NASA GSFC, The NASA Crustal Dynamics Project's Use of Satellite Laser Ranging to Meet its Multiple Objectives (3132)
12:00-12:20	J. Faller/JILA, Lunar Laser Ranging <i>(3127)</i>
12:30-13:30	Lunch
Session 03:	Science through Missions
	Giuseppe Bianco/ASI, Chair Graham Appleby/NERC Space Geodesy Facility, Co-Chair
13:30-13:50	G. Neumann/NASA GSFC Interplanetary Spacecraft Laser Ranging: The Quest for 1 AU (3143)
13:50-14:10	P. Exertier/CNRS-UNS-OCA Time Transfer by Laser Link (T2L2): A Way to Synchronize Laser Ranging Observatories at the ns Level (3083)
14:10-14:30	G. Beutler/Astronomical Institute of Bern GNSS for Positioning, Navigation, Timing, and Science (3135)

Workshop Agenda: Monday, October 27 (continued)

Session 03:	Science through Missions
14:30-14:50	R. Beard/Naval Research Laboratory The NAVSTAR 35 and 36 Laser Retro-reflector Experiments (3142)
14:50-15:10	B. Tapley/University of Texas/CSR Space Geodesy Contributions to Gravity Model Development (3129)
15:10-15:40	Group Photo
15:40-16:10	Break
16:10-16:30	Z. Altamimi/Institut National de l'Information Géographique et Forestière ITRF 2013 Analysis and SLR Contribution <i>(3035)</i>
16:30-16:50	J.P. Berthias/CNES SLR and Altimetry: A Success Story and a Lasting Partnership (3153)
16:50-17:10	B. Schutz/University of Texas/CSR The NASA Ice, Cloud and land Elevation Satellite (ICESat) Series: Science, Data Products and Operations (316X)
17:10-17:30	T. Murphy/University of California San Diego Lunar Laser Ranging: Science and Status <i>(3057)</i>

17:30-18:00 Governor Calvert House Atrium

Icebreaker Reception

18:00-21:00 Governor Calvert House Atrium

Workshop Agenda: Tuesday, October 28

Session 04:	SLR and Service Organizations
	Carey Noll/NASA GSFC, Chair
08:00-08:15	G. Bianco/Agenzia Spaziale Italiana ILRS <i>(TBS)</i>
08:15-08:30	H.J. Kutterer/Federal Agency for Cartography and Geodesy (BKG) GGOS and the Importance of the Combination of Space Techniques (3164)
08:30-08:45	P.E.O. Opseth/Norwegian Mapping Authority Status in the UN-GGIM Initiative on a Resolution for a Global Geodetic Reference Frame (3026)
Session 05:	The Role of SLR in the Terrestrial Reference Frame Development
	Erricos Pavlis/UMBC, Chair Vincenza Luceri/e-GEOS S.p.A, ASI/CGS Matera, Co-Chair
09:00-09:15	V. Luceri/e-GEOS S.p.A, ASI/CGS Matera The ILRS Contribution to the Development of ITRF2013 <i>(3157)</i>
09:15-09:30	E. Pavlis/UMBC Modeling Improvements in the ILRS Reprocess for ITRF2013 Using the LAGEOS Satellites to Assess the Accuracy of ILRS Stations (3146)
09:30-09:45	G. Appleby/NERC BGS Using the LAGEOS Satellites to Assess the Accuracy of ILRS Stations' Observations During The Last Decade (3052)
09:45-10:00	S. Kopeikin/University of Missouri Relativistic Aspects of SLR/GPS Geodesy (3144)
10:00-10:15	D. Thaller/BKG Pre-Combined GNSS-SLR Solutions for the ITRF2013 (3079)
10:15-10:30	F. Deleflie/GRGS Impact of 25 Years of Etalon-1 and Etalon-2 Data (3081)
10:30-11:00	Break
Session 06:	The Role of SLR in Gravitational Earth Modeling
	Horst Müller/DGFI, Chair Shinichi Nakamura/JAXA, Co-Chair
11:00-11:15	J. Ries/University of Texas at Austin Satellite Laser Ranging Applications for Gravity Field Determination (3117)
11:15-11:30	R. Gross/JPL Mass Transport and Dynamics in the Earth System (3015)
11:30-11:45	K. Matsuo/Kyoto University (T. Otsubo/Hitotsubashi University) Geocenter Motion Driven by Large-Scale Mass Redistribution (3088)
11:45-12:00	L. Petrov/ADNET Systems, Inc. The Use of Numerical Weather Models for SLR Data Analysis (3011)
12:00-12:15	W. Qu/Shanghai Astronomical Observatory, CAS The Study on the Coefficients of the Earth's Gravity Using Scaled Sensitivity Matrix Method (3002)
12:15-12:30	R. Govind/University of Cape Town Assessing Orbit Quality Using SLR (3110)

Workshop Agenda: Tuesday, October 28 (continued)

12:30-13:30	Lunch
Session 07:	Advanced Technologies I
	Zhongping Zhang/Shanghai Astronomical Observatory, CAS, Chair John Degnan/Sigma Space Corp., Co-Chair
13:30-13:45	Z. Fan/NAO, CAS (Z. You/NAO, CAS) Millijoules High Master-Slave Pulse Ratio 532 nm Picosecond Laser <i>(3126)</i>
13:45-14:00	T. Murphy/University of California San Diego TBAD: Transponder-Based Aircraft Detector (3058)
14:00-14:15	I. Blinov/FSUE VNIIFTRI (I. Ignatenko) Metrological Provision of Uniformity Of Measurements of Time and Frequency in the Satellites Laser-Ranging Systems (3041)
14:15-14:30	M. Sadovnikov/OJC "RPC "PSI" SLR Station of the New Generation for Time Transfer with Sub-nanosecond Accuracy and Ranging with Sub-millimeter Accuracy in Night and Daytime (3025)
14:30-14:45	Z. Zhang/Shanghai Astronomical Observatory, CAS Laser Measurement to Space Targets by Using Dual-Receiving Telescopes and Transmitted from One of Systems (3032)
14:45-15:00	A. Kloth/SpaceTech GmbH Development of a Full SLR Software Stack Based on Real-Time Linux and a New Version of the Potsdam Range Gate (3089)
15:00-15:30	Break
Session 08:	Advanced Technologies II
	Georg Kirchner/Austrian Academy of Sciences, Chair Matt Wilkinson/NERC Space Geodesy Facility, Co-Chair
15:30-15:45	M. Wilkinson/NERC Space Geodesy Facility Upgrading kHz SLR at the SGF, Herstmonceux (3104)
15:45-16:00	J. Degnan/Sigma Space, Inc. A Proposed Multifunctional Multichannel Receiver for SGSLR <i>(3020)</i>
16:00-16:15	Z. Li/Yunnan Observatories, CAS The Research of Rotating Shutter Control Method for 1.2m Telescope SLR System (3051)
16:15-16:30	S. Riepl/BKG First Results from the Satellite Observing System Wettzell (3131)
16:30-16:45	C. Courde/Laboratoire Geoazur/OCA Ideas of New Technological Developments for Future French SLR Stations (3091)
16:45-17:00	E. Hoffman/GFZ Upgrades and New Capabilities of the GFZ SLR Timing System (3085) Modernization and Characterization of the Riga SLR Timing System (3086)

Working Group Meetings

17:00-18:30	Missions Working Group	Abram Claude Room
18:30-20:00	Networks and Engineering Working Group	Abram Claude Room

Workshop Agenda: Wednesday, October 29

Buses Depart

07:00 Governor Calvert House

Buses Arrive

07:45 NASA GSFC Visitor Center

Tours of NASA Goddard Space Flight Center (GSFC) and Goddard Geophysical and Astronomical Observatory (GGAO)

08:30-11:30

11:30-12:30 Lunch provided in Building 8 Auditorium

Tours of NASA Goddard Space Flight Center (GSFC) and Goddard Geophysical and Astronomical Observatory (GGAO) Continue

12:30-15:00

15:00-15:30 Break in Building 8 Auditorium

15:30-15:45 Joint GSFC Engineering and Scientific Colloquium

Welcome: Chris Scolese, Director, NASA Goddard Space Flight Center

15:45-17:00 John Degnan/SigmaSpace, NASA GSFC Retired

A Celebration of Fifty Years of Satellite Laser Ranging

Buses Depart

17:00 NASA GSFC Building 8 Auditorium

Buses Arrive

18:00 Governor Calvert House

Poster Viewing Reception

18:30-21:30 Governor Calvert House Atrium

Workshop Agenda: Thursday, October 30

Session 09:	Networks and Core Sites	
	Michael Pearlman/SAO, Chair Stephen Merkowitz/NASA GSFC, Co-Chair	
08:00-08:15	M. Pearlman/SAO The Role of CORE and Co-location Sites and the Activities Underway to Improve the Global Space Geodesy Network (3044)	
08:15-08:30	M. Sadovnikov/OJC "RPC "PSI" Stages of Development of Stations, Networks and SLR Usage Methods for Global Space Geodetic and Navigation Systems in Russia (3068)	
08:30-08:45	Z. Zhang/Shanghai Astronomical Observatory The Status and Plan of the Chinese SLR Network (3165)	
08:45-09:00	J. McGarry/NASA GSFC Developing and Deploying NASA's Space Geodesy Satellite Laser Ranging (SGSLR) Systems (3018)	
09:00-09:15	T. Varghese/Cybioms Testing and Benchmarking the NASA SGSLR Systems at the 1mm Level Prior to Field Deployment (3119)	
09:15-09:30	J. Esper/NASA GSFC NASA's Next Generation Space Geodesy Network Typical Core Site Requirements and Layout (3151)	
09:30-09:45	P. Opseth/Norwegian Mapping Authority Status of the Establishment of a Core Site in Ny-Ålesund (3027)	
09:45-10:15	Break	
Session 10:	New Applications: Space Debris	
	Chris Moore/Electro Optic Systems Pty Ltd, Chair Ivan Prochazka/Technical University of Prague, Co-Chair	
10:15-10:30	B. Greene/Space Environment Research Centre Laser Ranging for the Precision Orbit Determination and Remote Maneuver of Space Debris (3094)	
10:30-10:45	H. Wirnsberger/Austrian Academy of Sciences Space Debris Orbit Predictions using Bi-static Laser Observations. Case Study: ENVISAT (3017)	
10:45-11:00	G. Kirchner/Austrian Academy of Sciences Infrared Laser Ranging to Space Debris – a Chance for ILRS (3009)	
11:00-11:15	S. Lakshminarayana/Rajasthan Institute of Engineering and Technology Send off to Space Debris using LASER Techniques (3003)	
Session 11:	New Applications: Time Transfer	
	Pierre Exertier/OCA/CERGA/GRGS, Chair Hiroo Kunimori/NICT, Co-Chair	
11:15-11:30	A. Schlicht/Technische Universität München Concept for a Geodetic and Time Reference in Space (3075)	
11:30-11:45	I. Prochazka/Czech Technical University in Prague Calibration of SLR System Delays for the European Laser Timing Reaching 20 ps Accuracy (3006)	
11:45-12:00	J. Kodet/ Technische Universität München SLR and GNSS Co-location and Delay Control for the Application of Laser Time Transfer (3005)	

Workshop Agenda: Thursday, October 30 (continued)

12:00-13:00	Lunch
Session 12:	From GNSS to Lunar
	Andrey Sokalov/OJC "RPC "PSI", Chair Scott Wetzel/HTSI, Co-Chair
13:00-13:15	M. Pearlman/SAO Early Results from New Initiatives on SLR Tracking of GNSS and Synchronous Satellites (3114)
13:15-13:30	A. Sokolov/OJC "RPC "PSI" New ideas in retroreflector array development (3024)
13:30-13:45	L. Thomas/Naval Research Laboratory Status of the GPS III Laser Retroreflector Array (3053)
13:45-14:00	S. Kasho/JAXA Accuracy Evaluation of QZS-1 Precise Ephemerides with Satellite Laser Ranging (3067)
14:00-14:15	A. Boni/INFN-LNF Thermal and Optical characterization of a GNSS Retroreflector Array at the SCF Lab (3082)
14:15-14:30	K. Sosnica/University of Bern Processing 20 Years of SLR Observations to GNSS Satellites (3070)
14:30-15:00	Break
Session 13:	Lunar Laser Ranging
	Jürgen Müller /Leibniz Universitat Hannover, Chair Ludwig Combrink/HRAO, Co-Chair
15:00-15:15	C. Courde/Laboratoire Geoazur/OCA French LLR Station Status and New Project (3016)
15:15-15:30	J. Müller/Leibniz Universität Hannover Earth Orientation and Relativity Parameters Determined from LLR Data (3033)
15:30-15:45	M. Martini/INFN Test of General Relativity Using Lunar Laser Ranging Data and the Planetary Ephemeris Program (3148)
15:45-16:00	A. Bourgoin/Observatoire de Paris/SYRTE New dynamical relativistic modeling of the Moon in POLAC group (SYRTE, Observatoire de Paris) (3092)
16:00-16:15	D. Currie/University of Maryland Atmospheric Effects and the Ultimate Ranging Accuracy for Lunar Laser Ranging (3055)
Session 14:	Planetary and Transponder Ranging
	Ulrich Schreiber/BKG/Geodaetisches Observatorium Wettzell, Chair Jan McGarry/NASA GSFC, Co-Chair
16:15-16:30	S. Bauer/DLR Application of one-way laser ranging data to LRO into orbit determination (3124)
16:30-16:45	D. Dirkx/Delft University of Technology Simulated Comparative Analysis of One- and Two-Way Planetary Laser Ranging Systems (3101)

Workshop Agenda: Thursday, October 30 (continued)

Session 14: Planetary and Transponder Ranging

16:45-17:00 S. Dell'Agnello/INFN-LNF

NASA-SSERVI and INFN Partnership "Springlets": Solar system Payloads of laser Retroreflectors of INfn for

General reLativity, Exploration and planeTary Science (3100)

Working Group Meetings

17:00-18:30 Data Formats and Procedures Working Group Abram Claude Room

17:00-18:30 Transponders Working Group Rebecca Grand

Workshop Banquet

19:00-22:00 Pusser's Caribbean Grille

Keynote Speaker: Dr. Piers Sellers/NASA GSFC

Deputy Director, Sciences and Exploration Directorate, NASA Astronaut

Session 15:	Operations
	Toshimichi Otsubo/Hitotsubashi University, Chair David McCormick/NASA GSFC, Co-Chair
08:00-08:10	R. L. Ricklefs/University of Texas at Austin ILRS Station Configuration Tracking (3123)
08:10-08:20	T. Otsubo/Hitotsubashi University Two-fold Quality Assessment of Global SLR Data <i>(3036)</i>
08:20-08:30	M. Wilkinson/NERC Space Geodesy Facility Plotting NP range residuals - SGF web development (3125)
08:30-08:40	E. Pavlis/UMBC Station Performance Assessment Tools for the ILRS Stations (3160)
08:40-08:50	G. Appleby/NERC Space Geodesy Facility Satellite Interleaving and Real-time Normal Point Data-Quantity Monitoring (3059)
08:50-09:00	J. Woo/Excelis Station Procedures <i>(3029)</i>
09:00-09:10	J. Torre/OCA Station best practice and requests (3130)
09:10-09:20	G. Kirchner/Austrian Academy of Sciences SLR Calibration Issues - Example: Graz (3154)
09:20-09:30	I. Prochazka/Technical University of Prague Geometry bias in a short baseline ground calibration (3097)
Session 16:	Workshop Closing
	Michael Pearlman/SAO, Chair Jan McGarry/NASA GSFC, Carey Noll/NASA GSFC, Co-Chairs
10:00-11:00 11:00-12:00 12:00-12:30	Session Summaries Working Group Summaries Workshop Closing
12:30-13:30	Lunch
Session 17:	Station Clinics
	David McCormick/NASA GSFC, Chair Toshimichi Otsubo/Hitotsubashi University, Co-Chair Jean-Marie Torre/OCA, Chair Mark Torrence/SGT, Co-Chair
13:30-15:00	Station Clinic I
15:00-15:30	Break
15:30-17:30	Station Clinic II
17:30	Workshop End

Session 02: Historical Perspectives Posters

- C. Schwatke, Historical Development of the SLR Data Holdings at EDC Between 1976 and 2014 (3010)
- J. Kostelecky, 1970 First Laser Ranging in the Czechoslovakia (3022)
- E. Kattimuthu, 40 Years of SLR in India (Remembering the Past) (3034)
- Ya. Blagodyr, History of the "Lviv-1831" SLR station at Lviv, Ukraine (3039)
- C. Noll, Satellite Laser Ranging Tracking Through the Years (3046)
- M. Abele, Satellite Laser Ranging in the University of Latvia since 1975 (3102)
- M. Ploner, History of the Laser Observations at Zimmerwald (3116)
- P. Dunn, Arequipa's Contribution to the ILRS Network (3121)
- P. Yanyachi, Arequipa Satellite Tracking Station (3122)

Session 05 and 06: Science Posters

- A. Pacheco, Earth Orientation Parameters (EOP's) using SLR data from ILRS 7406 station at San Juan Argentina (3013)
- E. Park, Preliminary Performance Analysis for the Korean SLR Station "DAEDEOK-73592601" (3064)
- Y. Kim, Precise Orbit Determination and Measurement Bias Analysis for Starlette with Satellite Laser Ranging of The Korean SLR Station "DAEDEOK-73592601" (3071)
- K. Sosnica, Earth Rotation and Gravity Field Parameters from Satellite Laser Ranging (3072)
- M. Bloßfeld, LOD systematics from SLR observations (3074)
- K. Ebauer, Impact of Atmospheric Effects on SLR-derived Parameters (3078)
- K. Ebauer, Geodetic Parameters Estimation from Processing of LAGEOS and LEO SLR Data (3080)
- I. Fausk, Combining SLR with VLBI, DORIS and GPS in the GEOSAT Software (3096)
- P. Dunn, Etalon and Ajisai Observations from NASA's SLR Network (3138)
- D. Kucharski, Submillimeter SLR: Ajisai as the Zero-Signature Geodetic Satellite (3021)
- T. Otsubo, Systematic Range Error 2013-2014 (3141)
- D. Lucchesi, Testing Fundamental Physics with Satellite Laser Ranging: Perspectives and Goals of the LARASE Experiment (3109)
- E. Tcyba, Associate Analysis Center of VNIIFTRI (3103)
- X. Wang, Introduction on ILRS SHAO Analysis Center and Products (3112)
- H. Oh, Orbit Determination of Korea Regional Navigation Satellite System by Using Satellite Laser Ranging (3145)
- P. Yanyachi, Laser Ranging and GPS Measurements to Misti, Chachani, Pichu Pichu Volcanoes and Surrounding Hills, and Applications of Precise Positioning to Monitoring of Volcanic Deformation and Seismic Risk (3155)

Sessions 07 and 08: Advanced Technologies Posters

- L. Combrinck, Development of a High Accuracy, User Friendly Lunar Laser Ranging Telescope Steering and Pointing Software Package at HartRAO (3004)
- I. Prochazka, Dark Count Rate Reduction of the SPAD Detection Package for SLR (3007)
- R. Ricklefs, Software Reuse in the ILRS Network (3008)
- S. Ndlovu, An Estimation of the Number of Expected Returned Photons for the HartRAO Lunar Laser Ranger System (3012)
- H. Zhang, The Research on Key Technology of 1064nm Wavelength SLR and Measurement Experiment (3030)
- A. Goncharov, The Laser Station Synchronization and Reference Frequency System and Its Metrological Support (3042)
- D. Arnold, Final Transfer Function of the LARES retroreflector array (3047)
- M. Choi, Development of the Automatic Transmitter/Receiver Alignment System (ATRAS) for ARGO-M (3063)
- J. Näränen, A New Toolset for Passive Monitoring of Air Traffic and Sky Conditions at Metsähovi Station, Finland (3073)
- S. Bang, A-RGG development for 10 kHz Laser Ranging of Daedeok station (3077)
- V. Vedin, New USB version of the Riga Event Timer and additional Software Support for Linux (3098)
- M. Wilkinson, ADS-B in-Sky Safety Making Listen2Planes Package Available to Download (3099)
- C. Clarke, Background Noise Suppression for Increased Data Acceptance (3118)
- J. Horvath, Automating NASA's Space Geodesy Satellite Laser Ranging (SGSLR) Systems (3136)
- C. Moore, Laser Development for Kilohertz Ranging at the US Naval Research Laboratory (3149)
- R. Preston, Analysis of ILRS data from STPSat-2 Retro-reflector (3156)
- H. Kunimori, Range Gate Generator with Pulse Position Modulation Capability (3159)
- J. Kilmer, Lasers for Satellite Laser Ranging (SLR) Applications (3162)

19th International Workshop on Laser Ranging, Annapolis MD, October 27-31, 2014

Posters (continued)

Session 09: Networks and Core Sites Posters

- R. Podestá, Local Ties to Determine the Co-location Vector from the SLR Telescope and GPS Antenna in San Juan, Argentina (3014)
- C. Noll, SLR, GNSS, VLBI, and DORIS Networks: ILRS+IGS+IVS+IDS (3048)
- A. Raja-Halli, Progress Report on the New SLR System of GGOS's Core Site Metsähovi, Finland (3090)
- J. Cheek, SGSLR Computer Design (3093)
- G. Appleby, Relative Height Surveying of Geodetic Monuments at the SGF Herstmonceux, UK (3105)
- S. Merkowitz, NASA's Next Generation Space Geodesy Network (3150)

Session 10: New Application: Space Debris Posters

- M. Shappirio, Tracking Orbital Debris in a Busy Airspace Environment (3115)
- Q. Li, Space Debris Laser Ranging at Yunnan Observatories (3049)
- C. Liu, Laser Ranging on Space Debris with the Changchun SLR station (3066)

Session 11: New Applications: Time Transfer Posters

- D. Mao, Time-transfer Experiments Between Satellite Laser Ranging Ground Stations via One-Way Laser Ranging to the Lunar Reconnaissance Orbiter (3060)
- C. Courde, Comparison Campaigns of Time Transfer Techniques Between Calibrated Observatories (3161)

Session 12: From GNSS to Lunar Posters

Zhao Chunmei, BDS Satellite Orbit and Clock Determination based on MGEX Data (3037)

- X. Hani, Daylight Tracking GNSS in the Changchun SLR station (3065)
- D. Currie, Science Trades for Weight and Deployment of the LLRRA-21 (3106)
- V. Glotov, Some Results of the GLONASS SLR Data Analysis in IAC PNT (3140)
- S. Dell'Agnello, "Laser Ranging to Galileo", an ASI-INFN Project of the Italian Ministry of Research (3147)

Session 13: Lunar Laser Ranging Posters

Yu. Kokurin, LLR (Lunar Laser Ranging) in the Physical Institute of the USSR Academy of Sciences (3040)

M. Aimar, ODISSEE, a Promising Tool for Lunar Laser Ranging (3113)

Session 14: Planetary and Transponder Ranging Posters

- D. Dirkx, Influence of Atmospheric Turbulence on Planetary Transceiver Laser Ranging (3087)
- D. Mao, Summary of Ground Station Performance in 5 years of Laser Ranging Operation to Lunar Reconnaissance Orbiter (3158)

Session 15: Operations Posters

- J. Woo, Developments at the NASA SLR OC (3028)
- Z. Wu, Current status in Shanghai SLR station (3031)
- F. Qu, Comparison of Different Frequency Laser Ranging (3038)
- C. Noll, Recent CDDIS Developments (3043)
- C. Noll, The ILRS Website's Site Log Viewer Application (3045)
- Y. Xiong, The Status and Plans of Satellite Laser Ranging at Yunnan Observatories (3050)
- J. Griffiths, Preliminary Bias Estimates for SLR Observations at Stafford, Virginia (3054)
- W. Smith, Status of SLR upgrades at the U.S. Naval Research Laboratory's Optical Test Facility (3056)
- R. Carman, Remote Control and Safety Upgrades at the Yarragadee MOBLAS-5 Station (3069)
- S. Yu, Daekdeok Station Receive Optical System Upgrade (3076)
- F. Deleflie, Dissemination of SLR data-related products through a Virtual Observatory: developments 2014-2015 (3084)
- J. del Pino, A Format Proposal for Reporting SLR-Airspace interaction Events (3107)
- J. del Pino, A Spreadsheet Tool for the Visualization of Long Term Calibration Series Parameters (3111)
- C. Moore, Start Detector Time Walk Compensation (3133)

Posters (continued)

Session 15: Operations Posters

- J. Luck, The Importance of Minicos (3134)
- Y. Kim, A Status Report on KASI Prediction Center (KAS) (3137)
- E. Pavlis, A Multi-platform Package for the Visualization of the ILRS QC Reports (3139)
- M. Torrence, The ILRS "Global Report Card" (3163)

Session 18: New Applications: Laser Communications (Poster Only)

- G. Vallone, Quantum Communications Demostrated For Satellite Downlink At MLRO (3062)
- D- Phung, DOMINO: Laser Communication Between SOTA, Onboard SOCRATES Satellite, and MEO Optical Ground Station (3095)