

## PROGRAM

**TUESDAY, 12 April 2016**

**8.00 – 9.50 REGISTRATION OF THE SYMPOSIUM PARTICIPANTS**

**10.00 – 10.10 OPENING CEREMONY**

Welcome speech by the Chairman of the International Scientific Committee **V.G. Peshekhonov** (*Concern CSRI Elektropribor, JSC, St. Petersburg, Russia*)

**10.10 – 10.20** Welcome speech by **U.Marti** (*Federal Office of Topography, Wabern, Switzerland*)

### INTRODUCTORY PAPER

**10.20 – 11.00** 1. **A.V. Olesen, R. Forsberg** (*National Space Institute, Technical University of Denmark (DTU-Space), Kgs Lyngby, Denmark*)  
Airborne Gravity Field Measurements – Status and Developments

**11.00 – 11.30 COFFEE BREAK**

### SESSION 1. TERRESTRIAL, SHIPBORNE AND AIRBORNE GRAVIMETRY

Chairmen: **A.V. Sokolov**, *Russia*  
**V.N. Koneshov**, *Russia*  
**M. Becker**, *Germany*  
**V.A. Lygin**, *Russia*

### PLENARY PAPERS

**11.30 – 11.50** 2. **D. Becker, M. Becker** (*Physical and Satellite Geodesy, Faculty of Civil and Environmental Engineering, Technische Universität Darmstadt, Germany*), **A.V. Olesen, J.E. Nielsen, R. Forsberg** (*National Space Institute, Technical University of Denmark, Kgs. Lyngby, Denmark*)  
Latest Results in Strapdown Airborne Gravimetry Using an iMAR RQH Unit

- 11.50 – 12.10** 3. **V.G. Peshekhonov, A.V. Sokolov, A.A. Krasnov** (*Concern CSRI Elektropribor, JSC, ITMO University, St. Petersburg, **Russia***), **A.I. Atakov** (*Sevmorgeo, St. Petersburg, **Russia***), **S.P. Pavlov** (*JSC Marine Arctic Geological Expedition (MAGE), Murmansk, **Russia***)  
Joint Analysis of High-Accuracy Marine and Airborne Gravity Surveys with Chekan-AM Gravimeters in the Arctic Basin
- 12.10 – 12.30** 4. **F. Barthelmes, C. Förste, S. Petrovic, H. Pflug, B. Lu** (*Helmholtz-Centre Potsdam, GFZ German Research Center for Geosciences, Telegrafenberg, Potsdam, **Germany***), **G. Liebsch, J. Müller, U. Schäfer** (*Federal Agency for Cartography and Geodesy BKG, Leipzig, **Germany***)  
Experiences from Air- and Ship-Borne Gravity Missions Using a Gravimeter Chekan-AM
- 12.30 – 12.50** 5. **K. Zhang, M. Wu, J. Cao, Sh. Cai** (*College of Mechatronic Engineering and Automation, National University of Defense Technology, Changsha, **China***)  
**cancelled** Preliminary Results of the Strapdown Airborne Gravimeter SGA-WZ02

**12.50 – 13.50** **LUNCH**

### **PLENARY PAPERS**

- 13.50 – 14.10** 6. **Yu.L. Smoller, S.Sh. Yurist** (*Gravimetric Technologies, Moscow, ITMO University, St.Petersburg, **Russia***), **A.A. Golovan** (*Lomonosov Moscow State University, Moscow, ITMO University, St.Petersburg, **Russia***), **L.Yu. Iakushyk** (*Lomonosov Moscow State University, Moscow, **Russia***), **W. Hewison** (*CMGOperations, Victoria Park, **Australia***)  
Using Quasicoordinates in Software of Multi-antenna GPS Receivers and Airborne Gravimeter GT-2A for Surveys in Polar Areas

- 14.10 – 14.30** 7. **P.N. Kovrizhnykh, Zh.Zh. Sahurykov, B.B. Shagiroy, M.O. Paidin** (*Geoken SPC LLP, Almaty, Republic of Kazakhstan*)  
Experience of Airborne Gravimetric Survey in Kazakhstan Upland Conditions
- 14.30 – 14.50** 8. **O.A. Stepanov, D.A. Koshaev, A.V. Motorin, A.V. Sokolov, A.A. Krasnov** (*Concern CSRI Elektropribor, JSC, ITMO University, St. Petersburg, Russia*)  
Comparison of Stationary and Nonstationary Adaptive Filtering and Smoothing Algorithms for Gravity Anomaly Estimation on Board the Aircraft
- 14.50 – 15.10** 9. **C. Roussel, J. Verdun, J. Cali** (*Geodesy and Geomatics Laboratory, Le Mans, France*), **M. Maia, J.-F. D'Eu** (*Oceanic Domains Laboratory, Plouzane, France*)  
Signal Processing and Calibration of a Mobile Underwater Gravimetry and Gradiometry System Named GraviMob
- 15.10 – 15.30** 10. **H. Baumann** (*Federal Institute of Metrology METAS, Bern-Wabern, Switzerland*), **E.E. Klingele** (*Gravity Consulting, Zurich, Switzerland*)  
**on-line** Towards a Dynamic Absolute Gravity System

- 15.30 – 15.50** 11. **V.G. Peshekhonov, A.V. Sokolov, O.A. Stepanov, A.A. Krasnov** (*Concern CSRI Elektropribor, JSC, ITMO University, St. Petersburg, Russia*), **Yu.F. Stus'** (*Institute of Automation and Electrometry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk; ITMO University, St. Petersburg, Russia*), **E.O. Nazarov** (*Institute of Automation and Electrometry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk State University; ITMO University, St. Petersburg, Russia*), **E.N. Kalish, D.A. Nosov, I.S. Sizikov** (*Institute of Automation and Electrometry, Siberian Branch of the Russian Academy of Science, Novosibirsk, Russia*)  
Concept of an Integrated Gravimetric System to Determine the Absolute Gravity Value Aboard Vehicles

**15.50 – 16.20**                    **COFFEE BREAK**

**POSTER PAPERS \***

- 16.20 – 16.40** 12. **I.V. Lygin, N.K. Myasoedov** (*«RN-Exploration», Moscow, Russia*), **S.V. Gorbachev, I.N. Radaev** (*«RN-Shelf-Arctic», Moscow, Russia*)  
Requirements for Gravimetric Survey in Offshore Geological Explorations
13. **W.Gao, L.Ma, H.Yu** (*Tianjin Navigation Instrument Research Institute, Tianjin, China*)  
The Research on Algorithm of Intercepting Gravity Line and Cross Points Search
- cancelled** 14. **Y.-G. Wang, L. Wang, H.-L. Teng** (*Xi'an High Tech Research Institute, China*)  
Kalman Filtering Process for Airborne Gravity Measuring Vertical Acceleration Correction

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\* The authors of poster papers at the plenary session are given 3 min to present the main idea of the paper with 1-2 slides, if any; further discussion will continue at the posters.

15. **Yu.V. Bolotin, V.S. Vyazmin** (*Lomonosov Moscow State University, ITMO University, St. Petersburg, Russia*)  
Gravity Anomaly Vector Determination Along Flight Trajectory and in Terms of Spherical Wavelet Coefficients Using Airborne Gravimetry Data
16. **A.B. Popov** (*St. Petersburg, Russia*)  
Marine Self-Supporting Gradiometer with Increased Support Stiffness

**16.40 – 17.00**                      **Discussion of the poster papers**

**17.00**                                **WELCOME PARTY**  
(*at Concern CSRI Elektropribor, JSC*)

WEDNESDAY, 13 April 2016

## SESSION 2. ABSOLUTE GRAVIMETRY

Chairmen: **A. Germak**, *Italy*  
**J. Mäkinen**, *Finland*  
**L.F. Vitushkin**, *Russia*

### PLENARY PAPERS

- 9.00 – 9.20** 17. **H. Baumann, F. Pythoud** (*Federal Office of Metrology METAS, Bern-Wabern, Switzerland*), **D. Blas, S. Sibiryakov** (*Theory Division, CERN, Geneva, Switzerland*), **A. Eichenberger** (*Federal Office of Metrology METAS, Bern-Wabern, Switzerland*), **E. E. Klingele** (*Gravity Consulting, Zurich, Switzerland*)  
**on-line**  
Experimental Assessment of the Speed of Light Perturbation in Free-Fall Absolute Gravimeters
- 9.20 – 9.40** 18. **Sh. Wu, J. Feng, Ch. Li, D. Su, J. Xu, W. Ji** (*National Institute of Metrology, Beijing, P.R. China*), **I.-M. Choi, S.-Y. Woo** (*Korea Research Institute of Standards and Sciences, Daejeon, Republic of Korea*)  
**cancelled**  
Revisiting the Comparison of Absolute Gravimeters within APMP Frame
- 9.40 – 10.00** 19. **W. Tian, W.Zhang, M. Zhong, Ch.Liu, H. Xu** (*Institute of Geodesy and Geophysics, CAS, Wuhan, China*)  
WHIGG Miniaturized Absolute Gravimeter

- 10.00 – 10.20** 20. **J. Mäkinen, M. Bilker-Koivula, H. Ruotsalainen** (*Finnish Geospatial Research Institute (FGI), Masala, Finland*), **R. A. Sermyagin, I.A. Oshchepkov, N.A. Gusev, N.N. Korolev, A.V. Basmanov, V.I. Kaftan, A.V. Pozdnyakov** (*Federal Scientific Research Center of Geodesy, Cartography and SDI (TsNIIGAiK), Moscow, Russia*), **Yu.F. Stus, D.A. Nosov** (*Siberian Branch of Russian Academy of Sciences, Institute of Automation and Electrometry (IAE SB RAS), Novosibirsk, Russia*), **V.D. Yushkin** (*Lomonosov Moscow State University, Sternberg Astronomical Institute (SAI MSU), Moscow, Russia*), **R. Falk, W. Hoppe** (*Federal Agency for Cartography and Geodesy (BKG), Frankfurt am Main, Germany*), **O. Gitlein** (*Institute of Geodesy (IfE), Leibniz Universität Hannover, Hannover, Germany*)  
Comparisons of Russian, Finnish, and German Absolute Gravimeters 2004–2013 and Connections to International Comparisons of Absolute Gravimeters
- 10.20 – 10.40** 21. **V. Pálinkáš** (*Research Institute of Geodesy, Topography and Cartography, Geodetic Observatory Pecný, Czech Republic*), **O. Francis** (*University of Luxembourg, FSTC – Campus Kirchberg, Luxembourg*)  
First results of the Comparison of Absolute Gravimeters EURAMET.M.G-K2 Key Comparison and Pilot Study
- 10.40 – 11.00** 22. **A. Constantino, J. Grantham, T.M. Niebauer** (*Micro-g LaCoste, Inc., Lafayette, CO, USA*)  
FG5 Automatic Tilt Correction System
- 11.00 – 11.30** **COFFEE BREAK**

## PLENARY PAPERS

- 11.30 – 11.50** 23. **E. Biolcati, A. Germak** (*Istituto Nazionale di Ricerca Metrologica INRiM, Torino, Italy*)  
Sensitivity of the Drop Length in a Rise and Fall Absolute Gravimeter: Simulation and Data from the IMGC-02 Instrument Operating in Different Measurement Sites
- 11.50 – 12.10** 24. **V.F. Bolyukh** (*National Technical University «Kharkiv Polytechnic Institute», Kharkov, Ukraine*),  
**A.V. Omelchenko** (*Kharkiv National University of Radioelectronics Kharkov, Kharkov, Ukraine*);  
**A.I. Vinnichenko** (*National Scientific Center «Institute of Metrology», Kharkov, Ukraine*)  
*on-line*  
A Ballistic Laser Gravimeter for a Symmetrical Measurement Method with the Inductive-Dynamic Catapult and Auto-Seismic Vibration Preventing

## POSTER PAPERS \*

- 12.10 – 12.40** 25. **E.I. Kotova, A.L. Dmitriev** (*ITMO University, St. Petersburg, Russia*)  
Compact Absolute Gravimeter Based on a Dropping Holographic Diffraction Grating
26. **P. Křen** (*Czech Metrology Institute, Prague, Czech Republic*), **V. Pálinkáš, M. Vaľko** (*Research Institute of Geodesy, Topography and Cartography, Geodetic Observatory Pecný, Ondřejov, Czech Republic*), **P. Mašika** (*Czech Metrology Institute, Prague, Czech Republic*)  
Dispersion Effect in Coaxial Cables of Absolute Gravimeters

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- cancelled** 27. **Sh. Wu, J.Feng, Ch. Li, D. Su, J. Xu, W.Ji** (*National Institute of Metrology, Beijing, China*)  
The Different Digital Fringe Signal Processing  
Methods in NIM's Absolute Gravimeters

**12.40 – 13.00**            **Discussion of the poster papers**

**13.00 – 14.00**            **LUNCH**

### Session 3: RELATIVE GRAVIMETRY, GRAVITY NETWORKS AND APPLICATIONS OF GRAVIMETRY

Chairmen: **V.F. Fateev**, *Russia*  
**V. Pálinkáš**, *Czech Republic*  
**F. Greco**, *Italy*

#### PLENARY PAPERS

- 14.00 – 14.20** 28. **U. Marti** (*Federal Office of Topography, swisstopo, Wabern, Switzerland*), **L.F. Vitushkin** (*VNIIM, St. Petersburg, Russia*), **H. Wziontek** (*Federal Agency for Cartography and Geodesy (BKG), Leipzig, Germany*)  
The Role of a New Global Absolute Gravity Reference System in Relation to the Global Geodetic Reference Frame
- 14.20 – 14.40** 29. **V.A Lygin** (*State Scientific Center Yuzhmorgeologiya, Gelendzhik, Russia*), **T.B. Sokolova**, **I.V. Lygin** (*Lomonosov Moscow State University, Russia*)  
Comprehensive Analysis and Interpretation of Gravimetric and Magnetometric Survey Data over Water Area and Mainland of Siberian Region
- 14.40 – 15.00** 30. **F. Greco**, **G. Currenti**, **M. Palano** (*Istituto Nazionale di Geofisica e Vulcanologia (INGV)– Sezione di Catania - Osservatorio Etneo, Italy*)  
Insights into a Shallow Persistent Magmatic Reservoir from Joint Analysis of Gravity and GPS Data: the 25-26 October 2013 Etna Lava Fountaining Event
- 15.00 – 15.20** 31. **O.V. Denisenko**, **I.S. Silvestrov**, **V.F. Fateev**, **D.S. Bobrov** (*FSUE «VNIIFTRI», u.s. Mendeleevo, Moscow Region, Russia*), **A.V. Kopaev** (*SAI MSU, Moscow, Russia*)  
High-Precision Gravity Observations on Testing Grounds of FSUE «VNIIFTRI» Sites

- 15.20 – 15.40** 32. **B.Meurers** (*University of Vienna, Vienna, Austria*), **D. Ruess, Ch. Ullrich, A. Nießner** (*Federal Office of Metrology and Surveying, Vienna, Austria*)  
Gravity Monitoring at the Conrad Observatory (CO)
- 15.40 – 16.00** 33. **H. Wziontek** (*Federal Agency for Cartography and Geodesy (BKG), Leipzig, Germany*), **R. Falk** (*Federal Agency for Cartography and Geodesy (BKG), Frankfurt/Main, Germany*), **S. Bonvalot** (*Bureau Gravimétrique International (BGI), Toulouse, France*)  
The Role of the AGrav-Database for the Realization of a Global Absolute Gravity Reference System
- 16.00 – 16.30**                    **COFFEE BREAK**
- 16.30 – 16.50** 34. **V.Yu. Timofeev, D.G. Ardyukov, A.V. Timofeev** (*Trofimuk Institute of Petroleum Geology and Geophysics Siberian Branch of Russian Academy of Sciences (TIPG&G SBRAS), Novosibirsk, Russia*), **Yu. F. Stus, Eu. N. Kalish, I. S. Sizikov, D. A. Nosov, M.G. Smirnov, K. E. Sorokin, E. O. Nazarov** (*Institute of Automation and Electrometry Siberian Branch of Russian Academy of Sciences (IA&E SBRAS), Novosibirsk, Russia*)  
Gravity Measurements for Vertical Motion Study and for Seismicity Research (Baikal Rift Region)
- 16.50 – 17.10** 35. **R.L.Melhorato** (*Centro Universitário São Camilo - ES, Cachoeiro de Itapemirim, Brazil*), **M.A.de Sousa** (*MCTI/Observatório Nacional - Coordenação de Geofísica, Rio de Janeiro, Brazil*)  
**on-line**  
An Assessment of the Field Performance of Scintrex CG-5 Autograv Gravimeters

- 17.10 – 17.30** 36. **S. Gaivoronskii, N. Kuzmina, V. Tsodokova, L. Starosel'tsev** (*Concern CSRI Elektropribor, JSC, ITMO University, St. Petersburg, **Russia***)  
Automated Zenith Telescope for Obtaining the Earth's Gravitational Field Parameters

**THURSDAY, 14 April 2016**

**Session 3: RELATIVE GRAVIMETRY, GRAVITY NETWORKS  
AND APPLICATIONS OF GRAVIMETRY**

**(Continued)**

Chairmen: **V.F. Fateev**, *Russia*  
**V. Pálinkáš**, *Czech Republic*  
**F. Greco**, *Italy*

**PLENARY PAPERS**

- 9.00 – 9.20** 37. **I. Heyde** (*Federal Institute for Geosciences and Natural Resources (BGR), Hannover, Germany*), **Ch. Girolami** (*University of Perugia, Perugia, Italy*)  
The Spreading System North and South-East of the Rodriguez Triple Junction (Indian Ocean) – Structural Investigations Based on Bathymetry, Magnetic and Gravity Data
- 9.20 – 9.40** 38. **I.V. Lygin, T.B. Sokolova, A.A. Fadeev, K.M. Kuznetsov, G. I. Brovkin** (*Lomonosov Moscow State University, Russia*)  
Precision Gravity Measurement in the Moscow Skyscrapers and its Practical Capability
- 9.40 – 10.00** 39. **X.G. Zhou, Ch. Zhang, L. Ma, J.Q. Zhao** (*Tianjin Navigation Instrument Research Institute, Tianjin, China*)  
New Method for Non-Liner Gravity Field Aided Navigation and Positioning Under Colored Noise
- 10.00 – 10.20** 40. **O.A. Korchagin** (*Rosgeologiya JSC, Moscow, Russia*), **V.A Lygin** (*State Scientific Center Yuzhmorgeologiya, Gelendzhik, Russia*), **I.V. Lygin, T.B. Sokolova** (*Lomonosov Moscow State University, Russia*)  
Shearing in Gravity Field
- cancelled**

## POSTER PAPERS \*

- 10.20 – 10.50 41. **M. Lederer, O. Nesvadba** (*Land Survey Office, Prague, Czech Republic*)  
Terrestrial Gravity Data Densification for the Czech Republic
42. **M. Lederer** (*Land Survey Office, Prague, Czech Republic*), **V. Pálinská** (*Research Institute of Geodesy, Topography and Cartography, Zdiby, Czech Republic*)  
Accurate Determination of Vertical Gravity Gradients at New Czech Absolute Stations
43. **I.A. Oshchepkov, R.A. Sermyagin, A.A. Spesivtsev, V.D. Yushkin, A.V. Pozdnyakov** (*Federal Scientific and Technical Center of Geodesy, Cartography and SDI, Moscow, Russia*), **A.A.Kovrov, P.A. Yuzefovich** (*Moscow State University of Geodesy and Cartography, Russia*)  
Gravity Measurements in the Moscow Gravity Network
44. **E.A.Spiridonov, O.Yu.Vinogradova** (*Schmidt Institute of Physics of the Earth of the Russian Academy of Sciences, Moscow, Russia*)  
ATLANTIDA3.1\_2014 for Windows: a Software for Tidal Prediction
45. **O.A. Stepanov, A.V. Motorin, A.B. Toropov, V.A. Vasiliev** (*Concern CSRI Elektropribor, JSC, ITMO University, St. Petersburg, Russia*)  
Identification of Total Errors of Digital Maps and Sensors of Geophysical Fields

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- cancelled** 46. **Y. Zhang** (*AVIC Xi'an Flight Automatic Control Research Institute, China*)  
The Decision Region of Gravitational Field Aided Navigation Based on Error Ellipse Method
47. **A.A. Krasnov, M.I. Evstifeev, L.P. Starosel'tsev, A.N. Dzyuba** (*Concern CSRI Elektropribor, JSC, ITMO University, St. Petersburg, Russia*)  
Development of a System for Gyrostabilization of a Marine Absolute Gravimeter and Determination of Its Motion Parameters

**10.50 – 11.10**                      **Discussion of the poster papers**

**11.10 – 11.40**                      **COFFEE BREAK**

## Session 4: COLD ATOM AND SUPERCONDUCTING GRAVIMETERS. GRAVITATIONAL EXPERIMENTS

Chairmen: **H. Hanada**, *Japan*  
**V. Schkolnik**, *Germany*

### PLENARY PAPERS

- 11.40 – 12.00** 48. **V. Menoret, P. Vermeulen** (*Muquans, Talence, France*), **A. Landragin** (*LNE-SYRTE, Observatoire de Paris, CNRS and UPMC, Paris, France*), **P. Bouyer** (*Laboratoire Photonique Numérique Nanosciences – LP2N Université de Bordeaux – IOGS - CNRS, Talence, France*), **B. Desruelle** (*Muquans, Talence, France*)  
Quantitative Analysis of a Transportable Matter-Wave Gravimeter
- 12.00 – 12.20** 49. **V. Schkolnik, C. Freier, M. Hauth, B. Leykauf** (*Institut für Physik, Humboldt Universität zu Berlin, Berlin, Germany*), **M. Schilling** (*Institut für Erdmessung, Leibniz Universität Hannover, Hannover, Germany*), **H. Wziontek** (*Bundesamt für Karthographie und Geodäsie (BKG), Leipzig, Germany*), **H.G. Scherneck** (*Chalmers University of Technology & Onsala Space Observatory, Onsala, Sweden*), **A. Peters** (*Institut für Physik, Humboldt Universität zu Berlin, Berlin, Germany*)  
Mobile Atom Interferometer for Absolute Gravity Measurements



- 12.20 – 12.40 50. **H. Hanada** (*National Astronomical Observatory, Mitaka/Oshu, **Japan**, SOKENDAI (The Graduate University for Advanced Studies), Mitaka, **Japan***), **S. Tsuruta, K. Asari** (*National Astronomical Observatory, Mitaka/Oshu, **Japan***), **H. Araki, H. Noda** (*National Astronomical Observatory, Mitaka/Oshu, **Japan**, SOKENDAI (The Graduate University for Advanced Studies), Mitaka, **Japan***), **S. Kashima** (*National Astronomical Observatory, Mitaka/Oshu, **Japan***), **K. Funazaki, A. Satoh, H. Taniguchi, H. Kato, M. Kikuchi, H. Sasaki, T. Hasegawa** (*Iwate University, Morioka, **Japan***), **A. Gusev** (*Kazan Federal University, Kazan, **Russia***)  
Expected Accuracy of a Small Telescope Like PZT for Observations of Vertical Gravity Gradient and Lunar Rotation

- 12.40 – 13.00 51. **N. Zahzam, A. Bonnin, F. Theron, M. Cadoret, Y. Bidel, A. Bresson** (*ONERA - the French National Aerospace Research Centre, DMPH, Palaiseau, **France***)  
New Advances in the field of Cold Atom Interferometers for Onboard Gravimetry

13.00 – 14.00 **LUNCH**

### **PLENARY PAPERS**

- 14.00 – 14.20 52. **V.F. Fateev, A.I. Zharikov, V.P. Sysoev, E.A. Rybakov, F.R. Smirnov** (*National Research Institute for Physical-Technical and Radio Engineering Measurements (VNIIFTRI), Federal Agency on Technical Regulating and Metrology, u.s. Mendeleevo, Moscow Region, **Russia***)  
Experimental Determination of Orthometric Height Difference by Measuring Gravitational Effect of Time Scales Dilation

- 14.20 – 14.40** 53. **F.C. Seifert** (*Joint Quantum Institute, National Institute of Standards and Technology (NIST) and University of Maryland, Gaithersburg, USA*),  
**D.B. Newell** (*National Institute of Standards and Technology (NIST), Gaithersburg, USA*),  
**E.J. Leaman** (*Virginia Polytechnic Institute and State University, Blacksburg, USA*)  
Determination of the Local Acceleration of Gravity for the NIST-4 Watt Balance
- on-line**
- 14.40 – 15.00** 54. **I.I. Kalinnikov, A.B. Manukin** (*Schmidt Institute of Physics of the Earth of the Russian Academy of Sciences (IPE RAS), Moscow, Russia*)  
About Lowering the Noise Temperature of Oscillatory Systems by Cold Damping
- 15.00 – 15.20** 55. **Y. Y. Xu, X. Ch. Duan, M. K. Zhou, Q. Qi, J. F. Cui, Z. K. Hu** (*MOE Key Laboratory of Fundamental Physical Quantities Measurement, School of Physics, Huazhong University of Science and Technology, Wuhan, China*)  
Development of a Transportable Atom Gravimeter in HUST

#### POSTER PAPER \*

- 15.20 – 15.30** 56. **A.S.Matviyenko** (*UZMASH, Dnepropetrovsk, Ukraine*); **Yu.P.Machekhin** (*KhNURE, Kharkov, Ukraine*), **A.I.Povrozin** (*KhPhTI, Kharkov, Ukraine*)  
Interaction of the Gravitational Field and Laser Radiation, as Basis of Absolute Gravimeter

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57. **M.-K. Zhou, X.-Ch. Duan, L.-L. Chen, Q. Luo, Zh.-K. Hu** (*MOE Key Laboratory of Fundamental Physical Quantities Measurements, School of Physics, Huazhong University of Science and Technology, Wuhan, China*)  
Systematic Errors Evaluation of the Atom Interferometry Gravimeter
58. **V.L. Gorshkov** (*The Central Astronomical Observatory of the Russian Academy of Sciences at Pulkovo, St. Petersburg, Russia*)  
On the construction of plumb line monitoring system based on the transportable astronomical Zenith tube and GNSS-receiver

**15.30 – 15.50                      Discussion of the poster paper**

**15.50 – 16.15                      CLOSING CEREMONY**

**16.30                                  Bus to the drink reception venue**

**17.00                                  DRINK RECEPTION**  
*(at Imperiya restaurant)*

**FRIDAY, 15 April 2016**

**CULTURAL PROGRAM (11:00 to 15:00)**