

**State Agency on Science, Innovations and Information
 Ukrainian Astronomical Association
 Research Institute “Nikolaev Astronomical Observatory”**

**“ASTRONOMICAL RESEARCH: FROM NEAR-EARTH SPACE TO GALAXY”
 (190th anniversary of Nikolaev Astronomical Observatory)
 NAO190, September 26-29, 2011, Nikolaev, Ukraine**

Preliminary Program

September 26, Observatory Hall

15 ⁰⁰ - 18 ⁰⁰	Registration
18 ⁰⁰ - 20 ⁰⁰	Excursion in Nikolaev Astronomical Observatory

September 27, Observatory Hall

8 ⁰⁰ - 9 ⁰⁰	Registration
9 ⁰⁰ - 10 ³⁰	<p>Opening</p> <ul style="list-style-type: none"> - Introduction by Gennady Pinigin, Director of NAO; - Welcome by: <ul style="list-style-type: none"> • Representative of the State Agency on Science, Innovations and Information of Ukraine; • Representative of the State Region Administration; • Mayor of Mykolaiv City; • Other astronomical institutions
10 ³⁰ - 11 ⁰⁰	<p><i>Coffee-break and common photo</i></p> <p>Section I, Chairman Ya. Yatskiv</p>
11 ⁰⁰ - 11 ³⁰	<p>Towards the Next Generation of Space-Time Reference Systems (JOURNEES 2011 vision)</p> <p>Ya. Yatskiv</p>
11 ³⁰ - 12 ⁰⁰	<p>RT-70 Radio Telescope in «Spektr-R» and «Fobos-Grunt» Space Missions</p> <p><i>Litvinenko L.N., Konovalenko A.A., Fal'kovic I.S., Kulisenko V.F., Reznichenko A.M.</i></p>
12 ⁰⁰ -12 ³⁰	<p>Astrometry and Photometry Observations of Selected Asteroids within the International Joint Project. Preliminary Results of Spectroscopic Observations of Asteroids at the 1.5m Telescope (RTT150).</p> <p><i>A. Ivantsov, I. Khamitov, R. Gumerov, Z. Aslan, W. Thuillot, D. Hestroffer, G. Pinigin, F. Colas, S. Mouret</i></p>
12 ³⁰ -13 ⁰⁰	<p>Using of Optical Means and Methods of Near-Earth Space Observation Designed in RI NAO</p> <p><i>A. Shulga, Y. Kozyruev, Y. Sybiryakova, A. Kovalchuk</i></p>
13 ⁰⁰ - 15 ⁰⁰	<p><i>Lunch Time</i></p> <p>Section II, Chairman G. Pinigin</p>
15 ⁰⁰ -15 ²⁵	<p>Ukrainian Virtual Observatory in the Network of World Virtual Observatories</p> <p>I. Vavilova</p>
15 ²⁵ - 15 ⁵⁰	<p>Refinement of Apophis Orbit during 2011-2014 Period</p> <p><i>D. Bancelin, J.Desmars, W. Thuillot, F. Colas I, D. Hestroffer, M. Assafin</i></p>

15 ⁵⁰ - 16 ¹⁵	Exploration of Comet 67P/Churyumov-Gerasimenko – the Main Target of the “Rosetta” Space Mission <i>K. Churyumov, O. Melnik</i>
16 ¹⁵ - 16 ⁴⁰	Residual Rotation of the Hipparcos/Tycho-2 System Determined from the Data of the XPM Catalogue <i>P. Fedorov</i>
16 ⁴⁰ - 17 ⁰⁰	Program of Automatic Asteroid Search and Detection CoLiTec (CLT) – Last Using Results <i>V. Savanevich, A. Kozhukhov, A. Bryukhovetskiy, V. Vlasenko, E. Dikov, Yu. Ivashchenko, L. Elenin, V. Tkachov</i>
17 ⁰⁰ - 17 ²⁰	Basic Observations of Meteors Using TV Registrations <i>Y. Kozyrev, Y. Sibiryakova, A. Shulga, Yu. Gorbanev</i>
17 ²⁰ - 17 ⁴⁰	The Collaboration between SHAO and NAO: Celebration of the 190th Anniversary of NAO <i>JIN Wenjing, G. Pinigin, TANG Zhenghong, A. Shulga</i>
17 ⁴⁰ - 18 ⁰⁰	Nikolaev Data Archive a Part of UkrVO <i>Yu. Protsyuk</i>
18 ⁰⁰ - 18 ³⁰	<i>Coffee-break</i>

September 28, Observatory Hall

	Section III, Chairman W. Thuillot
9 ⁰⁰ – 9 ³⁰	Statistics and Analysis of the Uncertainty of Asteroid Orbit <i>J. Desmars, D. Bancelin, D. Hestroffer, W. Thuillot</i> Improvement of astrometry and dynamical model of Phoebe <i>J. Desmars, S. Li, Z. Tang</i>
9 ³⁰ - 9 ⁵⁰	YORP-effect and Axis Rotation of near-Earth Asteroids <i>D. Lupishko, I. Teleusova</i>
9 ⁵⁰ – 10 ¹⁰	Some Problems in Artificial Correction of Orbits of Potentially Dangerous Asteroids <i>A. Kazantsev</i>
10 ¹⁰ - 10 ³⁰	The Results of New Reduction of Pulkovo Photographic Plates with Selected Asteroids and Pluto Using the Damian Digitizer <i>E. Khrutskaya, S. Kalinin, A. Berezhnoj, J-P. De Cyper, J.de Decer</i>
10 ³⁰ - 10 ⁵⁰	Investigation of Selected Stars with Large Proper Motions and Detection of $\Delta\mu$ -binary Systems <i>M. Martynov, N. Maigurova</i>
11 ⁰⁰ - 11 ³⁰	<i>Coffee-break</i>
11 ³⁰ - 11 ⁵⁰	Confirmation of a Model of the Artificial Explosive Crater on the Comet 9P/Tempel Nucleus <i>K. Churyumov, V. Kruchynenko, L. Chubko, O. Kucherov, V. Ponomarenko</i>
11 ⁵⁰ - 12 ¹⁰	Comparative Analysis of Spectra of Comet 22P/Kopff, 81P/Wild, C/2006 W3 (Christensen), C/2009 K5 (McNaught) and 103P/Hartley 2 <i>V. Ponomarenko, K. Churyumov, O. Baransky, V. Kleshchonok, L. Chubko</i>
12 ¹⁰ - 12 ³⁰	New Reduction of Minor Planets Photographic Plates Obtained with Pulkovo Normal Astrograph <i>A. Berezhnoj</i>
12 ³⁰ - 12 ⁵⁰	The Influence of Yarkovsky and YORP Effects on Dynamical Evolution of Asteroids <i>A. Pomazan, A. Ivantsov</i>
13 ⁰⁰ - 15 ⁰⁰	<i>Lunch Time</i>

	Section IV, Chairman I. Vavilova
15 ⁰⁰ - 15 ³⁰	Phenomenon of Two Astronomical Dynasties Struve-Knorre at Dorpat University and Long-Lasting Cooperation between Pulkovo and Nikolaev G. Pinigin, V. Abalakin, S. Heral
15 ³⁰ - 15 ⁵⁰	UkrVO'resource of CCD-Observations Archive Obtained by the Kyiv Meridian Axial Circle in 2001-2011 A.V. Zolotukhina
15 ⁵⁰ - 16 ¹⁰	Some Problems of the ERS Astrometric Reductions N. Maigurova, G. Damljanovic
16 ¹⁰ - 16 ³⁰	From Creation of Digital Archives to Data Processing by Using Virtual Technologies A. Mazhaev, O. Kovylianska, Yu. Protsyuk, S. Protsyuk
16 ³⁰ - 16 ⁵⁰	International Astronomical-Cultural Initiatives and Ukrainian Astronomical Heritage in the Context of World Heritage L. Kazantseva
16 ⁵⁰ - 18 ⁰⁰	<i>Coffee-break, Workshop meeting</i>
19 ⁰⁰ - 21 ⁰⁰	<i>Conference Dinner</i>

September 28, Conference room of the building #3

	Section IIIa, Chairman A. Shulga
9 ⁰⁰ - 9 ²⁰	To be declared later N. Koshkin
9 ²⁰ - 9 ⁴⁰	Assessment of the SC "Egyptsat-1" according to the Results of Observations Using Optical Instruments of the Ukraine V. Lopachenko, A. Shulga, N. Koshkin, E.Vovchik, V. Epishev, S. Ryschenko
9 ⁴⁰ - 10 ⁰⁰	Formation of Catalogue of Geosynchronous Satellites in RI NAO Y. Kozyrev, Y. Sibiryakova, A. Shulga
10 ⁰⁰ - 10 ²⁰	Model Behavior Satellite "Pageos" in Orbit Before and After Its Destruction V. Epishev, I. Isac, V. Kudak, I. Motrunich, N. Motrunich, E. Novak
10 ²⁰ - 10 ⁴⁰	Investigation of Own Rotation of "Midas" Satellites at the Minimum Solar Activity, V. Epishev, V. Kudak, I. Isak, N. Koshkin, I. Naybauer, V. Pirig Effect of Light Radiation on Geosynchronous Satellites Movement V. Epishev, V. Kudak, V. Klimik
10 ⁴⁰ - 11 ⁰⁰	To be declared later Ye. Vovchyk
11 ⁰⁰ - 11 ³⁰	<i>Coffee-break</i>
11 ³⁰ - 11 ⁵⁰	Observations of Natural and Artificial Objects in Near-Earth Space Using the Combined Observation Method Y. Kozyrev, Y. Sybiryakova, A. Shulga
11 ⁵⁰ - 12 ¹⁰	Using Signals of Satellite Television to Determine the Distance to Telecommunications Geostationary Satellites F. Bushuev, N. Kalyuzhny, A.Slivinsky, A. Shulga
12 ¹⁰ - 12 ³⁰	Object Detection from Images of Rotating-drift-scan CCD LI Yan
12 ³⁰ - 12 ⁵⁰	<i>Lunch Time</i>
13 ⁰⁰ - 15 ⁰⁰	Section IVa, Chairman Ye. Vovchyk
	New Observation Results from Rotating-drift-scan CCD

	MAO Yindun
15 ⁰⁰ - 15 ³⁰	Definition Optical-Geometric Features GSS on the Base of Multicolored Photometrical Observations on Small Phase Angels, P. Sukhov About Model of Terrestrial Shadow and Condition of the Entering in Shadow Equatorial GSS, <i>G. Karpenko, B. Murnikov, P. Sukhov</i>
15 ³⁰ - 15 ⁵⁰	Research of Seismic Waves, Which Were Registered by Fedchenko Astronomical Clock, Caused by Strong Earthquakes <i>F. Bushuev, N. Kalyuzhny, N. Kulichenko, M. Lazarenko, A. Slivinsky, A. Shulga</i>
15 ⁵⁰ - 16 ¹⁰	Using Signals of Over-Horizon FM Stations for Researching Density of Meteors Showers in Automatic Mode <i>F. Bushuev, N. Kalyuzhny, Y. Kozyrev, A. Slivinsky, A. Shulga, V. Vovk</i>
16 ¹⁰ - 16 ³⁰	A. Slivinsky
16 ³⁰ - 16 ⁵⁰	
16 ⁵⁰ - 18 ⁰⁰	<i>Coffee-break, Workshop meeting</i>
19 ⁰⁰ - 21 ⁰⁰	<i>Conference Dinner</i>

September 29, Observatory Hall

9 ³⁰ - 11 ³⁰	Poster Review, Chairman D. Lupishko
11 ³⁰ - 12 ⁰⁰	<i>Coffee-break</i>
12 ⁰⁰ - 13 ⁰⁰	General discussion
	Departure

List of posters

1. *Andrievsky S.M.* UNESCO list of Ukrainian observatories: the data preparation for the programme "Astronomical heritage"
2. *A.A. Berezhnoy, E.V. Khrutskaya, M.Yu. Khovritchev.* Determination of short-term proper motions of fast stars with Pulkovo Normal Astrograph
3. *Bushuev F.I., Kalyuzhny N.A., Slivinsky A.P., Shulga A.V.* Investigations of the influence of natural and anthropogenic factors on the state of ionosphere according to data of permanent GPS stations
4. *K.I. Churyumov, V.V. Kleshchonok, O.R. Baransky, V.O. Ponomarenko.* Structure near nucleus region in comet 81P/Wild 2
5. *Kazantseva L.* Reprocessing results of photographic observations of AO KNU: stage of organizing, cataloging and evaluation of accuracy
6. *Kovalchuk O., Protsyuk Yu., Polyakov E.* Correction of digitized images of plates using a ruler with calibrated lines, methods and first results
7. *N. Maigurova, M. Martynov, L. Bondarchuk.* The Nikolaev meridian circles catalogue of stars in fields.
8. *N. Narizhnaya, V.Rylkov.* The Pulkovo Catalogue of Reference Stars for Observations of Galactic Radiosources (Pul_GRS)
9. *V.Rylkov, N. Narizhnaya, G. Pinigin, N. Maigurova.* Compiled Astrometrical Catalogue 196600 Reference Stars for CCD-observation 240 Extragalactic Radiosources
10. *V. Nickiforov, O. Nickiforova.* "Adelaide" - for creation of the virtual observatory software
11. *G.I. Pinigin, Zh.A. Pozhalova.* Nikolaev observatory in the first half of XX century
12. *Protsyuk Yu., Protsyuk S., Kovylianska O., Martynov M., Andruk V.* Using digitized photographic observations for the creation of modern astrometric catalogues of coordinates and

proper motions

13. *A.P. Slivinsky, A.V. Shulga*. Definition of geometrical parameters of meteor trails and radiant on TV transmitter signal information
14. *F.I. Bushuev, N.A. Kalyuzhny, A.P. Slivinsky, A.V. Shulga*. Anomalies EMI synchronous with the passage of seismic waves from earthquakes
15. *A.P. Slivinsky, A.V. Shulga*. Determining the coordinates of the specular scattering on the trail of a meteor through two separated receiving stations on the FM transmitter signals
16. *A.P. Slivinsky*. Long-period perturbations of the Earth and solar activity as a possible consequence of the impact of gravitational wave
17. *S.V. Tolbin*. Memoirs about V.P. Sibilev.