

International VLBI Service for Geodesy and Astrometry
Russian Academy of Sciences
Russian Foundation for Basic Research
Scientific Council on Time Positioning and Navigation
Institute of Applied Astronomy

**The 5th General Meeting
of the International VLBI Service for Geodesy
and Astrometry**

MEASURING THE FUTURE

**March 2–6, 2008
St. Petersburg, Russia**

Program

**St. Petersburg
2008**

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General information

The Institute of Applied Astronomy of the Russian Academy of Sciences (IAA RAS) invites the international VLBI community to attend the 5th IVS General Meeting to be held in St. Petersburg, Russia on March 2–6, 2008.

The IVS holds a technical meeting, called the General Meeting, every two years. The purpose of the meeting is to assemble representatives from all IVS components to share information, hear reports, and plan future activities. The meeting also provides a forum for interaction with other members of the VLBI and Earth science communities.

The keynote of the 5th General Meeting will be the vital contribution of VLBI to the future of global observing systems under the theme of “Measuring the Future”. VLBI is a key technique for realizing the global reference frames and studying global change by monitoring the full set of Earth orientation parameters (polar motion, dUT1, celestial pole). Required accuracy levels and long-term stability can only be guaranteed with a rejuvenated VLBI system.

The content of the meeting is of interest to the broad spectrum of IVS members as well as to the wider VLBI and Earth science community. All IVS Associate Members and individuals who have interests in the various applications and research fields of VLBI such as geodesy, astrometry, Earth sciences, and related fields are encouraged to attend the meeting and to make an oral or poster presentation. Non-IVS members are cordially invited to attend the meeting and to make a presentation.

In addition to the General Meeting, several side meetings are organized: an IVS Analysis Workshop, a VLBI2010 Working Meeting, a Working Meeting of the IERS/IVS Working Group on the Second Realization of the ICRF, and an IVS Directing Board meeting. Further, it is planned to visit the VLBI station at Svetloe Observatory, which is located about two hours north of St. Petersburg.

Program committee:

Name	Institution	Country
Behrend Dirk	NASA Goddard Space Flight Center	USA
Charlot Patrick	Laboratoire d’Astrophysique de Bordeaux	France
Finkelstein Andrey	Institute of Applied Astronomy RAS	Russia
Himwich Ed	NASA Goddard Space Flight Center	USA
Koyama Yasuhiro	National Institute of Information and Communications Technology	Japan
Li Jinling	Shanghai Astronomical Observatory	China
Malkin Zinovy	Central (Pulkovo) Astronomical Observatory RAS	Russia
Nothnagel Axel	Institut für Geodäsie und Geoinformation, University of Bonn	Germany
Petrachenko William	Natural Resources Canada	Canada
Schuh Harald	Vienna University of Technology, Institute of Geodesy and Geophysics	Austria
Titov Oleg	Geoscience Australia	Australia
Whitney Alan	MIT Haystack Observatory	USA

Local organizing committee:

Finkelstein Andrey — chairman
 Ipatov Alexander — vice-chairman
 Shuygina Nadia
 Skurikhina Elena
 Smolentsev Sergey

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EXTENDED SCHEDULE OF EVENTS

All events take place at Institute of Applied Astronomy, Russian Academy of Sciences. Exceptions are indicated in angular brackets.

Sunday, March 2, 2008

14:00 – 17:00 Registration
 18:00 – 19:30 Icebreaker Reception [Palace of Scientists]

Monday, March 3, 2008

08:50–10:45 Opening and Session 1: VLBI – A Vital Player in Global Observing Systems
 10:45–11:15 Coffee break
 11:15–12:25 Session 1 (cont'd)
 12:25–13:05 Session 2: Network Stations, Operation Centers, Correlators
 13:05–14:30 Lunch break
 14:30–16:10 Session 2 (cont'd)
 16:10–16:40 Coffee break
 16:40–17:20 Session 2 (cont'd)
 17:20–18:30 Session 3: VLBI Data Structure, Analysis Strategies and Software
 19:00–21:00 IVS WG 4 Meeting

Tuesday, March 4, 2008

09:00–10:45 Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics
 10:45–11:15 Coffee break
 11:15–13:00 Session 4 (cont'd)
 13:00–14:30 Lunch break

- 14:30–16:15 Session 4 (cont'd)
 16:15–16:45 Coffee break
 16:45–18:30 Session 5: Progress in Technology Development
 and the Next Generation VLBI System
 18:30–20:30 Poster session (Sessions 1-5)

Wednesday, March 5, 2008

- 09:00–10:45 Session 5: Progress in Technology Development
 and the Next Generation VLBI System (cont'd)
 10:45–11:15 Coffee break
 11:15–13:00 Session 5 (cont'd) and GM Closing
 13:00–14:30 Lunch break
 14:30–16:15 VLBI2010 Working Meeting WG on ICRF-2
 Meeting
 16:15–16:45 Coffee break
 16:45–18:30 VLBI2010 Working Meeting WG on ICRF-2
 Meeting
 19:00–22:00 Banquet [Palace of Scientists]

Thursday, March 6, 2008

- 09:00–18:00 Excursion to Svetloe

Friday, March 7, 2008

- 09:00–10:45 IVS Analysis Workshop, Session I
 10:45–11:15 Coffee break
 11:15–13:00 IVS Analysis Workshop, Session II
 13:00–14:30 Lunch break
 14:30–16:30 IVS Analysis Workshop, Session III
 16:30–17:00 Coffee break
 17:00–19:00 IVS Directing Board Meeting, I

Saturday, March 8, 2008

- 08:00–10:00 IVS Directing Board [Transfer to Svetloe]
 10:00–10:30 Coffee break
 10:30–12:30 IVS Directing Board Meeting, II [Svetloe]
 12:30–14:00 Lunch break
 14:00–15:45 IVS Directing Board Meeting, III [Svetloe]
 15:45–16:15 Coffee break
 16:15–18:00 IVS Directing Board Meeting, IV [Svetloe]

PROGRAM**Monday, March 3, 2008****Opening**

08:50–09:20

Welcome Addresses

- (1) Prof. Alexander Viktorov, Minister of Science and Education, St. Petersburg Government
 (2) Prof. Andrey Finkelstein, Director IAA
 (3) Prof. Harald Schuh, IVS Chair

Session 1: VLBI – A Vital Player in Global Observing Systems***Chair: Hayo Hase***

09:20–09:35

1-01 IVS Report 2006-2008

Dirk Behrend (NVI, Inc./GSFC), Harald Schuh (Vienna University of Technology)

09:35–09:50

1-02 IVS Plans and Perspectives

Harald Schuh (Vienna University of Technology), Dirk Behrend (NVI, Inc./GSFC)

09:50–10:15

1-03 Synergies between VLBI and GNSS
(invited)

Urs Hugentobler (FESG Munich)

10:15–10:30

1-04 Combining VLBI Intensive with GPS Rapid Solutions for Deriving a Stable UT Time Series

Daniela Thaller (GFZ Potsdam), Volker Tesmer (DGFI Munich), Rolf Dach (University of Berne), Manuela Krügel (DGFI Munich), Markus Rothacher (GFZ Potsdam), Peter Steigenberger (GFZ Potsdam)

10:30–10:45

1-05 How Can the Wettzell “G” Ringlaser Improve VLBI Measurements of Subdiurnal Earth Rotation Variations?

P.J. Mendes Cerveira (Vienna University of Technology), H. Schuh (Vienna University of Technology), T. Klügel (BKG Wettzell), A. Velikoseltsev (FESG Munich), U. Schreiber (FESG Munich)

10:45–11:15

Break***Chair: Harald Schuh***

11:15–11:40

1-06 The Role of VLBI in GGOS *(invited)*

Markus Rothacher (GFZ Potsdam)

11:40–11:55

1-07 Search for VLBI-compact Extragalactic Radio Sources

Yuri Kovalev (MPIfR Bonn)

11:55–12:10

1-08 Multi-step VLBI Observations of Weak Extragalactic Radio Sources to Align the ICRF and the Future GAIA Frame

Géraldine Bourda (Bordeaux Observatory), Patrick Charlot (Bordeaux Observatory), Richard Porcas (MPIfR Bonn), Simon Garrington (Jodrell Bank Observatory)

12:10–12:25

1-09 Multi-Source VLBI: A New Geodetic VLBI Observing Technique

Victus N. Uzodinma (University of Nigeria)

**Session 2: Network Stations, Operation Centers,
Correlators**

Chair: Alexander Ipatov

- 12:25–12:45 **2-01 The QUASAR Network: 2008, 2009, 2010**
(invited)
Andrey Finkelstein (Institute of Applied Astronomy RAS), Alexander Ipatov (Institute of Applied Astronomy RAS), Sergey Smolentsev (Institute of Applied Astronomy RAS)
- 12:45–13:00 **2-02 Equipment Failures, Chronic Station Problems, and RFI: Their Effects on Geodetic VLBI Data as Seen at the Correlator**
Kerry Kingham (U.S. Naval Observatory), David Hall (U.S. Naval Observatory)
- 13:00–14:30 **Lunch**
- 14:30–14:55 **2-03 Effects on the Geodetic-VLBI Measurables due to Polarization Leakage in the 2.3 GHz and 8.4 GHz Receivers** *(invited)*
Alessandra Bertarini (IGG Bonn), Walter Alef (MPIfR Bonn), Brian Corey (MIT Haystack Observatory), Axel Nothnagel (IGG Bonn), Craig Walker (NRAO)
- 14:55–15:10 **2-04 Twin Telescope Wettzell: a VLBI2010 Radio Telescope Project**
H. Hase (BKG TIGO), G. Kronschnabl (BKG Wettzell), W. Schlüter (BKG Wettzell), W. Schwarz (BKG Wettzell), R. Dassing (BKG Wettzell), R. Kilger (FESG Munich), P. Lauber (FESG Munich)

- 15:10–15:25 **2-05 Space Geodesy at KASI**
Younghee Kwak (KASI, Ajou University), Jungho Cho (KASI), Jong-Uk Park (KASI)
- 15:25–15:40 **2-06 Comparisons of Correlations Using Disk Transfer and e-VLBI Transfer**
A. Nothnagel (IGG Bonn), A. Bertarini (IGG Bonn), C. Dulfer (IGG Bonn), T. Artz (IGG Bonn), J. Wagner (Metsähovi Radio Observatory), G. Molera (Metsähovi Radio Observatory), J. Ritakari (Metsähovi Radio Observatory)

Chair: Kerry Kingham

- 15:40–15:55 **2-07 Ultra-rapid UT1 Measurements with e-VLBI**
Shigeru Matsuzaka (GSI), Kozin Wada (GSI), Shinobu Kurihara (GSI), Yasuhiro Koyama (NICT), Mamoru Sekido (NICT) Rüdiger Haas (Onsala Space Observatory), Jan Wagner (Metsähovi Radio Observatory)
- 15:55–16:10 **2-08 The EVN MkIV Data Processor at JIVE and e-VLBI Developments in the EVN**
Bob Campbell (Joint Institute for VLBI in Europe), Arpad Szomoru (Joint Institute for VLBI in Europe)
- 16:10–16:40 **Break**
- 16:40–16:55 **2-09 The IAA RAS 6-station VLBI Correlator**
Igor Surkis (Institute of Applied Astronomy RAS), Andrey Bogdanov (Institute of Applied Astronomy RAS), Artemiy Fateev (Institute of Applied Astronomy RAS), Alexey Melnikov (Institute of Applied Astronomy RAS), Violet Shantyr (Institute of Applied Astronomy RAS), Vladimir Zimovsky (Institute of Applied Astronomy RAS)

- 16:55–17:05 **2-10 Bonn Correlator Status Report** Arno Müskens (IGG Bonn), Walter Alef (MPIfR Bonn), Alessandra Bertarini (IGG Bonn)
- 17:05–17:20 **2-11 CVN Software Correlator Development and Applications in the Chinese Lunar Exploration Mission** Weimin Zheng (SHAO CAS)

Session 3: VLBI Data Structure, Analysis Strategies and Software

Chair: Zinovy Malkin

- 17:20–17:45 **3-01 VLBI as a Tool to Connect Astrometry and Astrophysics** (*invited*) Yury Gnedin (Central Astronomical Observatory at Pulkovo RAS)
- 17:45–18:00 **3-02 IVS Working Group 4 on VLBI Data Structures** John Gipson (NVI, Inc./GSFC)
- 18:00–18:15 **3-03 Effects of Surface Pressure and Temperature on the VLBI Reference Frame** Robert Heinkelmann (Vienna University of Technology), Johannes Böhm (Vienna University of Technology), Harald Schuh (Vienna University of Technology)
- 18:15–18:30 **3-04 The Chinese VLBI Network and its Contribution to the Chinese Lunar Exploration Project Chang'E-1** Jinling Li (SHAO CAS)

Tuesday, March 4, 2008

Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics

Chair: Oleg Titov

- 09:00–09:25 **4-01 Secular Decrease of the Earth's Ellipticity from the Analysis of VLBI Data of 1984-2006, and the Long-term Systematic Errors of the Precession-Nutation Models IAU 2000 and IAU 2006** (*invited*) George Krasinsky (Institute of Applied Astronomy RAS)
- 09:25–09:50 **4-02 Comparisons of Precession-Nutation Models** (*invited*) N. Capitaine (Paris Observatory), P. M. Mathews (University of Madras), V. Dehant (Royal Observatory of Belgium), P. T. Wallace (Rutherford Appleton Laboratory), S. Lambert (Paris Observatory)
- 09:50–10:15 **4-03 Astrophysical Stability of Radio Sources and Implication for the Realization of the Next ICRF** (*invited*) Patrick Charlot (Bordeaux Observatory)
- 10:15–10:30 **4-04 Some Challenges in Developing the Second ICRF** Chopo Ma (Goddard Space Flight Center)
- 10:30–10:45 **4-05 On Source Selection for the ICRF-2** Zinovy Malkin (Central Astronomical Observatory at Pulkovo RAS)
- 10:45–11:15 **Break**

Chair: Rüdiger Haas

- 11:15–11:30 **4-06 Selection of ‘Defining’ Sources for ICRF2**
David Gordon (NVI, Inc./GSFC), Chopo Ma (Goddard Space Flight Center), John Gipson (NVI, Inc./GSFC), Leonid Petrov (NVI, Inc./GSFC), Dan MacMillan (NVI, Inc./GSFC)
- 11:30–11:45 **4-07 Systematic Effects in Apparent Proper Motions of Radio Sources**
Oleg Titov (Geoscience Australia)
- 11:45–12:00 **4-08 Extending the ICRF to Higher Radio Frequencies: X/Ka-band Global Astrometric Results**
Christopher S. Jacobs (JPL), Ojars J. Sovers (RSA Systems)
- 12:00–12:15 **4-09 The Impact of Source Structure on the Celestial Reference Frame at Higher Radio Frequencies**
David Boboltz (U.S. Naval Observatory), Alan Fey (U.S. Naval Observatory), Patrick Charlot (Bordeaux Observatory)
- 12:15–12:30 **4-10 Results from K-band Geodetic VLBI Using VERA**
Takaaki Jike (Mizusawa VERA Observatory, NAOJ), Seiji Manabe (Mizusawa VERA Observatory NAOJ), Yoshiaki Tamura (Mizusawa VERA Observatory, NAOJ)
- 12:30–12:45 **4-11 Comparison of Radio Source Positions from Individual Solutions**
Sergei Bolotin (MAO NASU), Svitlana Lytvyn (MAO NASU)
- 12:45–13:00 **4-12 The Large Quasar Astrometric Catalog and the Radio-Optical Link**
J. Souchay (Paris Observatory), S. Bouquillon

(Paris Observatory), C. Barache (Paris Observatory), A.-M. Gontier (Paris Observatory), S. Lambert (Paris Observatory)

13:00–14:30 **Lunch**

Chair: Oleg Titov

- 14:30–14:45 **4-13 The Effect of Nuclear Opacity in Radio Sources on Astrometric Applications**
Andrei Lobanov (MPIfR Bonn)
- 14:45–15:00 **4-14 Atmospheric Loading Coefficients Determined from Homogeneously Reprocessed Long-term GPS and VLBI Height Time Series**
V. Tesmer (DGFI Munich), J. Böhm (Vienna University of Technology), B. Meisel (DGFI Munich), M. Rothacher (GFZ Potsdam), P. Steigenberger (GFZ Potsdam)
- 15:00–15:15 **4-15 Re-assessment of Ocean Tidal Terms in High-Frequency Earth Rotation Variations Observed by VLBI**
Sigrid English (Vienna University of Technology), Robert Heinkelmann (Vienna University of Technology), Harald Schuh (Vienna University of Technology)
- 15:15–15:30 **4-16 Comparison and Validation of VLBI Derived Polar Motion Estimates**
Thomas Artz (IGG Bonn), Sarah Böckmann (IGG Bonn), Axel Nothnagel (IGG Bonn), Volker Tesmer (DGFI Munich)
- 15:30–15:45 **4-17 The Variance Component Approach in the IVS Combination**
Sarah Böckmann (IGG Bonn), Axel Nothnagel (IGG Bonn)

- 15:45–16:00 **4-18 Combination of Nutation Time Series Derived from VLBI and GNSS**
 Maria Kudryashova (Vienna University of Technology), Kristyna Snajdrova (Vienna University of Technology), Robert Weber (Vienna University of Technology), Robert Heinkelmann (Vienna University of Technology), Harald Schuh (Vienna University of Technology)
- 16:00–16:15 **4-19 Outer and Inner Core Parameters from Joint Analysis of Superconducting Gravimeter and VLBI Data**
 Severine Rosat (EOST-IPGS Strasbourg), Sébastien Lambert (Paris Observatory)
- 16:15–16:45 **Break**

Session 5: Progress in Technology Development and the Next Generation VLBI System

Chair: Bill Petrachenko

- 16:45–17:10 **5-01 Modeling Tropospheric Delays with Atmospheric Turbulence Models** (*invited*)
 Tobias Nilsson (Onsala Space Observatory), Rüdiger Haas (Onsala Space Observatory)
- 17:10–17:35 **5-02 VLBI2010 Broadband Delay Demonstration** (*invited*)
 Arthur Niell (MIT Haystack Observatory) and the BBDev Team
- 17:35–18:00 **5-03 Progress Report on Developing Eleven Feed for VLBI2010 and SKA Frequency Bands** (*invited*)
 Per-Simon Kildal (Chalmers University of Technology)

- 18:00–18:15 **5-04 Composite Applications to Radio Telescopes**
 Dean Chalmers (DRAO Penticton), Gordon Lacy (DRAO Penticton), Peter Dewdney (DRAO Penticton), Gary Hovey (DRAO Penticton), Bill Petrachenko (Natural Resources Canada)
- 18:15–18:30 **5-05 DBBC Development Status**
 G. Tuccari (IRA-INAF), W. Alef (MPIfR Bonn), A. Bertarini (IGG Bonn), S. Buttaccio (IRA-INAF), G. Nicotra (IRA-INAF), A. Roy (MPIfR Bonn), M. Wunderlich (MPIfR Bonn)

Poster Sessions

- 18:30–20:30 **Poster Sessions**

Wednesday, March 5, 2008**Session 5: Progress in Technology Development and the Next Generation VLBI System (cont'd)***Chair: Arthur Niell*

- 09:00–09:15 **5-06 Progress of Wideband VLBI Digital System Development at SHAO**
Xiuzhong Zhang (Shanghai Astronomical Observatory)
- 09:15–09:30 **5-07 The Mark 5C VLBI Data System**
Alan Whitney (MIT Haystack Observatory)
- 09:30–09:45 **5-08 Mark 5C Software Development Program**
Chester Ruszczyk (MIT Haystack Observatory)
- 09:45–10:00 **5-09 Development of a Compact VLBI System for Providing over 10 km Baseline Calibration**
R. Ichikawa (NICT), A. Ishii (NICT),
H. Takiguchi (NICT), H. Kuboki (NICT),
M. Kimura (NICT), J. Nakajima (NICT),
Y. Koyama (NICT), T. Kondo (NICT),
M. Machida (GSI), S. Kurihara (GSI), K. Kokado (GSI), S. Matsuzaka (GSI)
- 10:00–10:15 **5-10 Developments of an Automated Data Processing System for Ultra Rapid dUT1 e-VLBI Sessions**
Yasuhiro Koyama (NICT), Mamoru Sekido (NICT), Thomas Hobiger (NICT), Hiroshi Takiguchi (NICT), Tetsuro Kondo (NICT)
- 10:15–10:30 **5-11 VLBI2010 Antenna Slew Rate Study**
Bill Petrachenko (Natural Resources Canada), Johannes Böhm (Vienna University of Technology), Daniel MacMillan (NVI,

Inc./GSFC), Andrea Pany (Vienna University of Technology), Toni Searle (Natural Resources Canada), Jörg Wresnik (Vienna University of Technology)

- 10:30–10:45 **5-12 Simulation Analysis of the Geodetic Performance of Networks of VLBI2010 Stations**

Daniel MacMillan (NVI, Inc./GSFC)

- 10:45–11:15 **Break**

Chair: Bill Petrachenko

- 11:15–11:30 **5-13 VLBI2010 Simulations at IGG Vienna**
Jörg Wresnik (Vienna University of Technology), Johannes Böhm (Vienna University of Technology), Andrea Pany (Vienna University of Technology), Harald Schuh (Vienna University of Technology)
- 11:30–11:45 **5-14 Vienna VLBI2010 PPP Simulations**
Andrea Pany (Vienna University of Technology), Jörg Wresnik (Vienna University of Technology), Johannes Böhm (Vienna University of Technology), Harald Schuh (Vienna University of Technology)
- 11:45–12:00 **5-15 The Square Kilometre Array in the Context of IVS Science**
Leonid Gurvits (Joint Institute for VLBI in Europe)
- 12:00–12:15 **5-16 VLBI Observation of SELENE (KAGUYA) with VERA and with an International VLBI Network**
Hideo Hanada (NAOJ), Takahiro Iwata (JAXA), Nobuyuki Kawano (NAOJ), Norijuki Namiki (Kyushu University), Kazuyoshi Asari (NAOJ),

Yoshiaki Ishihara (NAOJ), Toshiaki Ishikawa (NAOJ), Fuyuhiko Kikuchi (NAOJ), Qinghui Liu (NAOJ), Koji Matsumoto (NAOJ), Hirotomo Noda (NAOJ), Seiitsu Tsuruta (NAOJ), Sander Goossens (NAOJ), Natalia Petrova (NAOJ), Sho Sasaki (NAOJ), Kenzaburo Iwadate (NAOJ), Takaaki Jike (NAOJ), Osamu Kameya (NAOJ), Katsunori Shibata (NAOJ), Yoshiaki Tamura (NAOJ), Xiaoyu Hong (SHAO), Jinsong Ping (SHAO), Yusufu Aili (Urumqi Observatory), Simon Ellingson (University of Tasmania), Wolfgang Schlüter (BKG Wettzell)

12:15–12:30

5-17 VLBI and Precise Navigation in Space

V. E. Zharov (Sternberg State Astronomical Institute), L. I. Matveenko (Space Research Institute of RAN)

12:30–12:45

5-18 On the Space VLBI Mathematical Model with Nutation Parameters

Erhu Wei (Wuhan University), Jingnan Liu (Wuhan University), Vincenza Tornatore (Politecnico di Milano), Chuang Shi (Wuhan University)

Closing

12:45–13:00

Closing Remarks

Harald Schuh, Vienna University of Technology

13:00–14:30

Adjourn GM and Lunch**Splinter Meetings**

14:30–16:15

**VLBI2010 Working Meeting
WG on ICRF-2 Meeting**

16:15–16:45

Break

16:45–18:30

**VLBI2010 Working Meeting
WG on ICRF-2 Meeting**

18:30–19:00

Adjourn Splinter Meetings

19:00–22:00

Banquet [Palace of Scientists]

Posters

Session 1P: VLBI – A Vital Player in Global Observing Systems

1-01P High Resolution Atmosphere Angular Momentum Time Series for Continuous VLBI Campaigns

Johannes Böhm (Vienna University of Technology), Paulo Jorge Mendes Cerveira (Vienna University of Technology), Sigrid English (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

1-02P Astrometry of the Solar System Bodies with VLBI Radar

Igor Molotov (Central Astronomical Observatory at Pulkovo), Maria Nechaeva (Radiophysical Research Institute, Russia), Igor Falkovich (Institute of Radio Astronomy, Ukraine), Vladimir Agapov (Keldysh Institute of Applied Mathematics, Russia), Gino Tuccari (Istituto di Radioastronomia), Giuseppe Pupillo (Università di Bologna), Stelio Montebugnoli (Istituto di Radioastronomia), Gennadiy Kharlamov (Special Research Bureau, Russia), Lance Benner (Jet Propulsion Laboratory), Viacheslav Fateev (International Vimpel Corporation, Russia), Alexander Volvach (Crimean Astrophysical Observatory), Xiang Liu (Urumqi Astronomical Observatory), Ivars Shmels (Institute of Astronomy, Latvia), Alexander Dementiev (Radiophysical Research Institute, Russia), Nikolay Dugin (Radiophysical Research Institute, Russia), Vladimir Jazykov (Central Astronomical Observatory at Pulkovo)

Session 2P: Network Stations, Operation Centers, Correlators

2-01P Single Dish Radiometric Observations of Geodetic Sources on Radio Telescopes of the QUASAR Network

Mikhail Kharinov (Institute of Applied Astronomy RAS), Andrey Mikhailov (Institute of Applied Astronomy RAS)

2-02P An Automatic System for Monitoring Hydrogen Standards in the QUASAR VLBI Network

Dmitriy Ivanov (Institute of Applied Astronomy RAS), Aleksandr Vytov (Institute of Applied Astronomy RAS)

2-03P Local Ties Between Co-located Space Geodetic Instruments at the QUASAR Network Observatories

Iskander Gayazov (Institute of Applied Astronomy RAS), Elena Skurikhina (Institute of Applied Astronomy RAS)

2-04P Australian–New Zealand Geodetic VLBI Network Project

Oleg Titov (Geoscience Australia), Sergei Gulyaev (Auckland University of Technology), Jim Lovell (University of Tasmania), John Dickey (University of Tasmania)

2-05P The CVN in Geodesy: Experiments, Results and Activities in the Near Future

Guangli Wang (Shanghai Astronomical Observatory)

2-06P Status of the Setup of the New 40-m Radiotelescope at Yebes (Spain) for Geodetic VLBI

F. Colomer (OAN Yebes), J. Gómez-González (Instituto Geográfico Nacional), J.A. López-Fernández (OAN Yebes), P. de Vicente (OAN Yebes), R. Bachiller (OAN Yebes), S. García-Espada (OAN Yebes)

2-07P Onsala Space Observatory – IVS Network Station

Rüdiger Haas (Onsala Space Observatory), Gunnar Elgered (Onsala

Space Observatory), Tobias Nilsson (Onsala Space Observatory)

2-08P VLBI Activities of Tsukuba 32-m Station and Tsukuba Correlator

Shigeru Matsuzaka (GSI), Kozin Wada (GSI), Etsuro Iwata (GSI), Hiromi Shigematsu (GSI), Shinobu Kurihara (GSI), Morito Machida (GSI), Kensuke Kokado (GSI), Daisuke Tanimoto (AES/GSI), Kentarou Nozawa (AES/GSI)

2-09P The Past Decade of Tsukuba 32-m VLBI Station

Shigeru Matsuzaka (GSI), Kozin Wada (GSI), Etsuro Iwata (GSI), Hiromi Shigematsu (GSI), Shinobu Kurihara (GSI), Morito Machida (GSI), Kensuke Kokado (GSI), Daisuke Tanimoto (AES/GSI), Kentarou Nozawa (AES/GSI), Kazuhiro Takashima (College of Land, Infrastructure and Transport), Yoshihiro Fukuzaki (GSI)

2-10P Geodetic VLBI Prospects for Irbene Station

Karlis Berzins (University of Latvia)

2-11P Matera Site Survey and VLBI Invariant Point Determination

Roberto Lanotte (CGS/Telespazio), Giuseppe Bianco (CGS/ASI)

2-12P Space Geodesy at Yebes: Station Motion from VLBI and GPS

S. García-Espada (OAN Yebes, Onsala Space Observatory), R. Haas (Onsala Space Observatory), F. Colomer (OAN Yebes)

2-13P Variations in the Integral Fluxes and Parsec-Scale Structure of Geodetic VLBI Sources

A.E. Volvach (Crimean Astrophysical Observatory), A.B. Pushkarev (Crimean Astrophysical Observatory), L.N. Volvach (Crimean Astrophysical Observatory), H.D. Aller (University of Michigan), M.F. Aller (University of Michigan)

Session 3P: VLBI Data Structure, Analysis Strategies and Software

3-01P Improved Estimation in VLBI through Better Modeling and Analysis

John Gipson (NVI, Inc./GSFC), Dan MacMillan (NVI, Inc./GSFC), Leonid Petrov (NVI, Inc./GSFC)

3-02P Data Analysis at BKG in the Frame of IVS

Volkmar Thorandt (BKG Leipzig), Gerald Engelhardt (BKG Leipzig)

3-03P The GSFC VLBI Analysis Center

David Gordon (NVI, Inc./GSFC), Chopo Ma (GSFC), Dan MacMillan (NVI, Inc./GSFC), Leonid Petrov (NVI, Inc./GSFC), John Gipson (NVI, Inc./GSFC), Karen Bayer (NVI, Inc./GSFC)

3-04P WEB Service and Interactive Tools of the IERS Earth Orientation Center

C. Bizouard (Paris Observatory), O. Becker (Paris Observatory), D. Gambis (Paris Observatory)

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Florent Deleflie (Observatoire de la Cote d'Azur), Sébastien Lambert (Observatoire de Paris), Philippe Berio (Observatoire de la Cote d'Azur), Anne-Marie Gontier (Observatoire de Paris), Christophe Barache (Observatoire de Paris)

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Vadim Gubanov (Institute of Applied Astronomy RAS)

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Julia Sokolova (Pulkovo Observatory RAS), Zinovy Malkin (Pulkovo Observatory RAS)

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Dan Smythe (MIT Haystack Observatory)

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A.S. Berdnikov (Institute of Applied Astronomy RAS), L.V. Fedotov (Institute of Applied Astronomy RAS), K.G. Belousov (Astro Space Center), S.F. Likhachev (Astro Space Center), O.V. Dronova (Astro Space Center), A.V. Chibisov (Astro Space Center)

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Arnaud Collioud (Bordeaux Observatory), Patrick Charlot (Bordeaux Observatory)

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Vincenza Tornatore (Politecnico di Milano), Gino Tuccari (IRA INAF), Erhu Wei (Wuhan University)

5-08P New Approach to VLBI-GPS Combination

Younghee Kwak (KASI, Ajou University), Tetsuo Sasao (KASI, Ajou University), Jungho Cho (KASI), Tuhwan Kim (Ajou University)

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Hiroshi Takeuchi (JAXA), Yoshiharu Asaki (JAXA), Hiroo Kunimori (NICT), Hirobumi Saito (JAXA), Yasuhiro Murata (JAXA), Shinichi Nakamura (JAXA), Toshimitsu Otsubo (Hitotsubashi University), Makoto Yoshikawa (JAXA)

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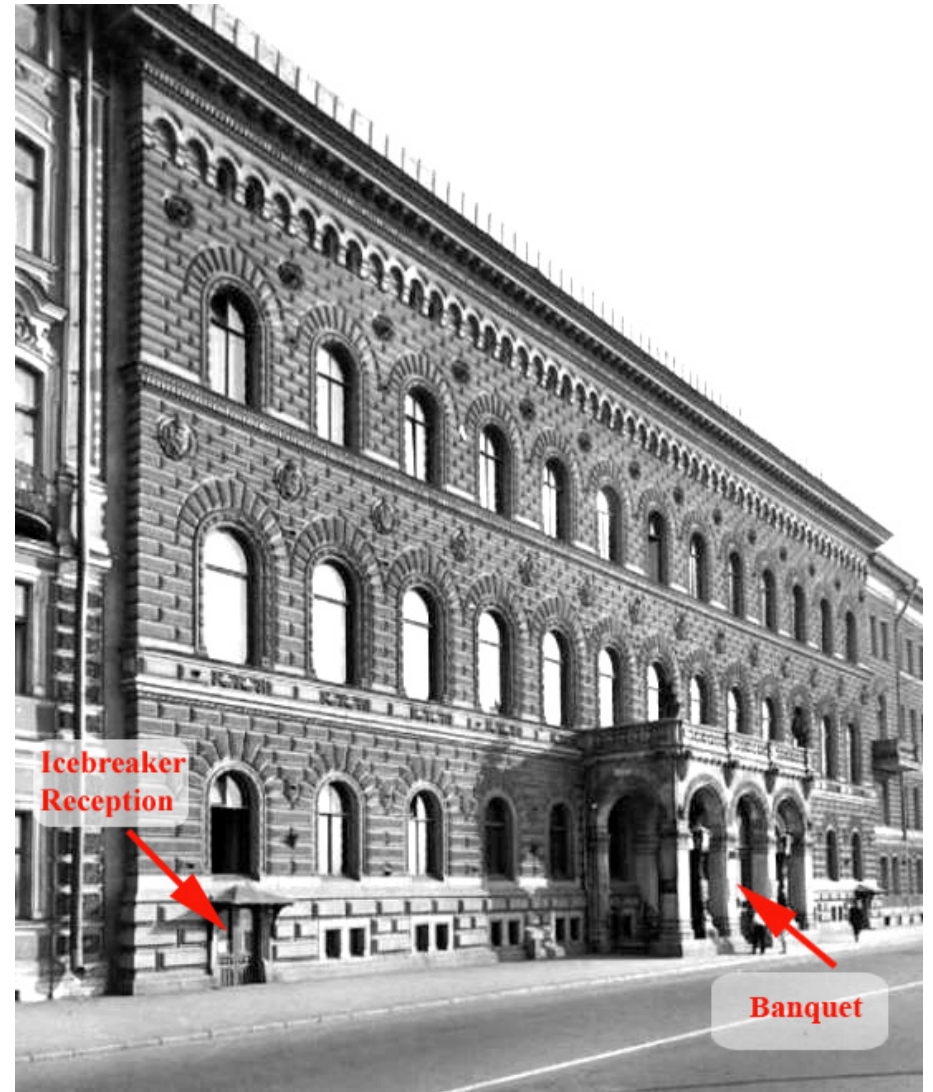
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