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Kazan-Luna-2009

2009



**UN, UNESCO, International Astronomical Union  
"The International Year of Astronomy"**

**INTERNATIONAL ASTRONOMICAL CONGRESS  
"ASTROKAZAN - 2009", 19 – 28 AUGUST 2009, KAZAN, RUSSIA**

**USSR-Russia: The first artificial satellite on the Moon - 50 years  
USA: The first step of the Man on the Moon - 40 years**

**International Scientific Symposium**

**The Moon, moons and planets: Robotic Explorations and Comparisons  
August 19 - 26, 2009, Kazan State University, Russia**

**FIRST ANNOUNCEMENT**

**Introduction**

On 20 December 2007, the 62nd General Assembly of United Nations proclaimed 2009 the International Year of Astronomy. UNESCO was designated as the lead agency and focal point for the Year. The UNESCO Thematic Initiative "Astronomy and World Heritage" contributes to the preparation of the International Year of Astronomy, and will provide an opportunity to raise public awareness, especially with young people, about the safeguarding of scientific heritage, and to enhance the links between science, education and culture. During the opening ceremony of the International Year of Astronomy, which took place on 15 January 2009, the Director-General of UNESCO officially launched the cycle of activities "Astronomy and World Heritage: across time and continents". One of the main activities of this cycle is the international conference on "Astronomy and World Heritage: across time and continents" will be hosted by the Government of the Republic of Tatarstan, 19 – 24 Aug. 2009, Kazan, Russia (<http://www.astroheritage.ru>). In the framework of the congress "ASTROKAZAN-2009" will be organized the Symposium "The Moon, moons & Planets: Robotic Explorations and Comparisons", Aug. 19 - 26, 2009, Kazan University, Russia

**Welcome** Organizing Committees of the International Scientific Symposium "The Moon, moons and Planets" extend a warm welcome to all participants and their guests. We wish you a very pleasant stay in Kazan. The Symposium is open to all scientists interested.

The Symposium will give a broad outlook of scientific areas: geometrical, analytical, qualitative, bifurcation and structure analysis of early and modern the Moon, Earth and planets on micro-, meso- and large scales; fundamental physics from ground and space, micro-arcsecond astrometry; physics, dynamics and chemistry of the Moon, moons and planets, geophysical budget of planetary rotation, resonance structure and geophysical rhythms, differential rotation, free core nutation, free libration, LOD, topography, gravitational and magnetic fields of the Moon, moons and planets, mascons, lunar and planet dichotomy; modern ground observations, space missions and future prospective: LLR, Mars-Express, SMART-1, Messenger, Venus-Express, SELENE, Chang'e-I, Chandrayaan-I, LRO + LCROSS, Fobos-Grunt, ILOM, Luna Glob, MoonLITE, ILN, Bepi Colombo, ExoMars, LaRa, EJSM, TSSM, Europe lander.

**International Scientific Symposium** “The Moon, moons and Planets” hosted and organized by Kazan State University, Russian Ministry of Education and Science, Russian Foundation for Basic Research, Russian Academy of Sciences, Academy of Science of Tatarstan

**General Description:**

**The International Scientific Symposium (ISS) “The Moon, moons and Planets” will be devoted to the bicentenary celebration of the Astronomy department of Kazan University (1810 yr).** The Kazan State University is one of the oldest and largest institutes of higher learning in the Russia. It was founded on November 5, 1804. The history of Kazan University abounds in the names of outstanding scientists, staunch revolutionaries, eminent public figures, educators, painters actors. The history of the University is the history of Russian science, social thought and culture: N.I. Lobachevsky - the founder of non-Euclidean geometry (1826); N.N.Zinin obtained aniline (1842), K.K. Klaus - discoverer of ruthenium (1844), A.M. Butlerov propounded the theory of composition of organic compounds; I.M. Simonov discovered the Antarctic during the round-the-world expedition of 1819-1821 led by F.F. Belinsghausen and M.P. Lazarev. Prof. M. Kovalsky predicted the rotation of our Galaxy. Kazan University takes pride in its graduates the great Russian writer Leo Tolstoy, composer M.A. Balakirev, writers S.T. Aksakov, P.I. Mel'nikov-Pechersky and Velimir Khlebnikov. Researchers who brought fame to Kazan university in the post-Second World War years were E. Zavoisky (physics), A. Arbuzov and G. Kamai (chemistry), N. Chetaev (engineering) and N. Chebotarev (mathematics).

A new scientific trends were started by Prof. A.Z. Petrov, who classified Einstein spaces by the structure of the curvature tensor, by Prof. S.A. Altshuller, Prof. V.M. Kozyrev who discovered nuclear-magnetic resonance, by Prof. Sh.T. Khabibullin, who developed the non-linear theory of Lunar Physical Libration. The telescope purchased by Lobachevsky is still used in the University Observatory, where worked the brilliant astronomer I.Simonov. From 1819 to 1821 he took part in the round-the-world Antarctic expedition of F.Bellinsgausen and M.Lazarev and became the first climatologist of Antarctica.

**International Advisory Committee:**

Marov M. – Chair, GEOKHI RAS, Russia  
 Nourgaliev D.- Vice-Rector of Kazan Univ, Russia  
 Abalakin V. – Pulkovo Observatory, RAS, Russia  
 Boss A. – Carnegie Institute, USA  
 Brzezinski A. – SRC PAS, Poland  
 Chen D. – Purple Mountain Observatory, China  
 Emel'yanov V. – SAI, Moscow University, Russia  
 Ferrandiz J. – Universidad de Alicante, Spain  
 Ferraz-Mello S. – Univ. de Sao Paulo, Brazil  
 Foing B. – ESA, EU  
 Galimov E. – GEOKHI RAS, Moscow, Russia  
 Goswami J. – ISRO, India  
 Head J. - Brown. Univ., USA  
 Kawano N. – NAOJ, Mizusawa, Japan  
 Sasaki S. - NAOJ, Japan  
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 Williams J.G. – JPL, USA  
 Ye Shuhua - SHAO/CAS, China  
 Zharkov V. – IFZ RAS, Moscow, Russia  
 Zuber M. - MTI, USA

**Scientific Program Committee:**

Arlot J. - Observatoire de Paris, France  
 Avsyuk Yu. - IFZ RAS, Moscow, Russia  
 Barkin Yu. – SAI, Moscow, Russia  
 Bhandari N. – PRL, India  
 Getino J. – Universidad de Valladolid, Spain  
 Gusev A. – Kazan Univ., Russia  
 Heki K. – Sapporo Univ., Japan  
 Hanada H - NAOJ, Japan  
 Kascheev R. – Kazan Univ., Russia  
 Kopeikin S. - University of Missouri, USA  
 Kholshchevnikov K.–S-Petersburg Univ, Russia  
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 Ksanfomality L. – IRI RAS, Russia  
 Markov Yu. – MAI, Russia  
 Nefed'ev Yu. –EAO, Kazan Univ., Russia  
 Ping J. – Shanghai AO, China  
 Shevchenko V. - SAI, Moscow Univ., Russia  
 Souchay J. – Observatoire de Paris, France  
 Sponh T. - DLR, Berlin, Germany  
 Valeev S. – Ul'yanovsk Univ., Russia

**Local Organizing Committee:**

Nefed'ev Yura - Chairperson, Director of EAO , Kazan University, Russia  
Kascheev Rafael - Co-chairperson, Astronomy Dept., Kazan University, Russia  
Gusev Alexander - Co-chairperson, Geophysics Dept., Kazan University, Russia  
Petrova Natalia - Executive Secretary , Astronomy Dept., Kazan University, Russia  
Members: Oleg Bel'kovich, Naufal Rizvanov, Inga Dubyago, Margarita Kibardina, Irina  
Kitiashvili, Dasha Khristoforova, Leonid Rakhimov, Mikhail Shpekin, Eduard Utemov, Renat  
Zagretdinov

**List of plenary and invited speakers:** Bernard Foing, Lev Zelenyi, Michail Marov, Hiroshi Araki,  
Yuri Barkin, Narendra Bhandari, Jose Ferrandiz, Juan Getino, Hideo Hanada, Shuanggen Jin,  
Sergei Kopeikin, Oleg Kuskov, Yuri Markov, Koji Matsumoto, Noriyuki Namiki, Hiroto Noda,  
Jinsong Ping, Sho Sasaki, Vladislav Shevchenko, Jean Souchay,

**Scientific Contributions**

Plenary review speakers: 1 hour, Invited speakers: 30 min.; Contributed talks: 15 min.; Poster  
presentation, Panel discussions, Resolutions and Recommendations. The official language of the  
Symposium is English, French, Russian, Spanish.

**Proceedings**

Proceedings of the Symposium will be published before the Symposium as a special extended  
Abstract Book (electronic format, PDF): Plenary review – 10 pages (5Mb), Invited report – 6 p.  
(3Mb), Contributed speaker - 3 p. (2Mb), Poster presentation – 2 p. (1Mb).  
Instruction for preparing of papers will be given in 2nd announcement. Text of reports must be  
received by the organizers by 1st July 2009 by e-mail [Moons2009@mail.ru](mailto:Moons2009@mail.ru). Papers will be  
subject to refereeing by the SOC of Symposium.

**Symposium Fee**

The registration fee is 300 Euro, student - 150 Euro, accompanying person – 80 Euro,  
900 rubles for CIS participants. The fee covers admission to Reception, opening Ceremony,  
Scientific Sessions, coffee breaks, Abstract Book, the complete set of the participant. The cost of  
the Symposium dinner is not included in this fee. Payment of the registration fee will be carried out  
at registration desk.

**Symposium Location**

The conference will be held in the magnificent and historic building of the Kazan  
University. The beautiful city Kazan, situated 800 km East from Moscow, is one of the most  
remarkable and ancient towns at the left bank of the greatest river Volga, Russia. The ancient  
monuments of Kazan together with its beauty and cultural and scientific atmosphere, made it  
historic centre as a Russian Treasure. Kazan, one of the biggest and most important cultural and  
industrial centres on the Volga River, referred to as "the port of five seas, with a population nearing  
1.2 million made up of 77 different ethnic groups, is the capital of the Republic of Tatarstan.

Tatarstan is the most northern frontier between Muslim and Orthodox Christian worlds, a secular  
republic with stability based on a high percentage of mixed marriages, official support for two  
languages and cultural tolerance. As a transportation hub, Kazan serves a region encompassing over  
80 million people.

## Entry Visa to Russia

To visit Russia you must have a valid passport. The LOC will mail every participant an **official invitation letter** which will be sufficient to obtain an entry visa to Russia. According to the Russian legislation, it must be the Organizing Committee who applies for a visa for the participants of the Conference. Please fill and send us the Application Visa Form and a copy of the first page of your foreign passport in formats RTF and JPEG accordingly at your earliest convenience. The requests will be sent by us to the Ministry of Foreign Affairs of Russia. Then they send papers to a consulate (a particular one, so people should mention which one they prefer), then applicants send papers and photos to the consulate and receive a visa.

**Application Visa Form will be given in 2nd announcement** (15 April 2009).

## Accommodation

The expected prices for most hotels will be from about 10 Euro (student hostel) to 100 Euro per night. Hotel reservations should be made before May 25, 2009. Complete hotel pricing and reservation information will be sent with the **Second Announcement** (15 April, 2009). Almost all accommodation is within walking distance from the Symposium site ("Tatarstan") and taxi, microbus, tram, trolleybus ("Korston", "Safar", "Regina", "Bulgar"). Reservations should be made through the conference organizers.

## Travel

Kazan is located approximately 800 km east of Moscow, Russian capital. Getting to Russia by air:

**On-line:** Frankfurt am Main - Kazan, Istanbul – Kazan (international airport, 20 km from Kazan)

**Non on-line:** to Moscow, then to Kazan by air (45 min) or by express train "Tatarstan" Moscow - Kazan (10 hours), No. 1 which leaves Moscow at about 9.28 p.m. from Kazanskii Railway Station and arrives to Kazan at about 7.10 a.m.). The average temperature of August is 18-21<sup>0</sup>C.

## Preliminary List of Sponsoring Organizations

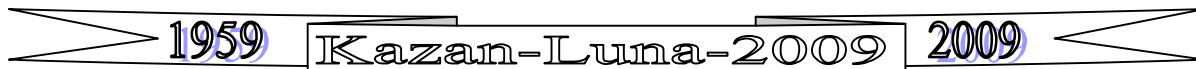
Kazan State University, Russian Ministry of Education, Ministry of Industry, Science and Technology of the Russian Federation, Russian Academy of Sciences, Academy of Science of Tatarstan, Russian Foundation for Basic Research.

## Cultural Program and Social Events

There will be a number of social events: Evening Public lectures, Concerts of the cathedral chorus of the Raif's Cloister, the "La Primavera", the state ensemble of song and dance of the Republic of Tatarstan, the theatre of opera and ballet, the conservatory, fashion show: 'Melita' Co. and "Larisa" Agency and much more

## Tours and Excursions

Tours and excursions to Moscow, St.-Petersburg, Gold Ring of Russia, Walking tour of the Kazan's downtown, Kremlin, Rows by boat on the river Volga to city of the Bolgar the Great (IX - XII centuries) and to Island Sviyazsk Russian fortress XVI century, Excursion in the Raif's Cloister, in the state museum of local lore, history, and economy, in the state art museum, in historical and special museums of Kazan University, the mosque of Margjany, St. Petropavlov's cathedral, the Lobachevsky scientific library, the Kazan state Circus, Zoo, Kazan Derby, auto track on the "High mountain", fishing, tourist travels by boats, bicycles and walk around Kazan etc. are available.



**Deadlines and Important Dates**

- 15 March 2009 First Announcement
- 15 April 2009 Second Announcement
- 25 May 2009 Hotel Reservation Form
- 25 May 2009 Receipt of Pre-Registration Forms
- 1 July 2009 Receipt of Abstracts
- 25 July 2009 Third Announcement
- 1 August 2009 Notification for Selected Contributed Talks  
and Poster Presentations by E-mail
- 19 - 26 Aug. 2009 Symposium sessions

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**Contact: ISS "The Moon, moons and Planets"  
August 19 - 26, 2009, Kazan University, Russia**

**<http://www.astroheritage.ru>**

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