**CONCLUSIONS**

**1-st Meeting of BRICS**

**Working Group on Research Infrastructures and Mega-Science projects**

**Date:** 15-16 May 2017

**Place:** The Joint Institute for Nuclear Research (JINR), Dubna (Russia)

**Representatives of the WG and participants:**

China

1. Shiming Zheng – Minister Counsellor, Chinese Embassy in Russia
2. Yuntao Song –Executive Deputy Director, Institute of Plasma Physics, Chinese Academy of Sciences
3. Zhe Li – Second Secretary, Chinese Embassy in Russia

South Africa

1. Neville Arendse – Chief Director: Overseas Bilateral Cooperation, Department of Science and Technology
2. Charles Mokonoto – Director, Cyberinfrastructure, Department of Science and Technology
3. Zeblon Vilakazi – Deputy Vice-Chancellor, University of the Witwatersrand

Brazil

1. Felipe Silva Bellucci – Coordinator of Innovation on Converging and Enabling Technologies, Brazilian Ministry of Science, Technology, Innovations and Communications

India

1. Abhishek Vaish – Science and Technology Counsellor, Indian Embassy in Russia

Russia

1. Sergey Matveev – the Director Department, Ministry of Education and Science of the Russian Federation
2. Evgeny Masterskikh – Department of Science and Technology, Ministry of Education and Science of the Russian Federation
3. Ksenia Trinchenko – Deputy Head, International Department, Ministry of Education and Science of the Russian Federation
4. Irina Kuklina – Executive Director, International Center for Innovations in Science, Technology & Education
5. Mikhail Popov – Deputy Director for International Relations, National Research Centre «Kurchatov Institute»

Observers:

1. Sergey Aplonov – Vice-rector for research, St. Petersburg University
2. **Olga Belova – Expert, International Cooperation Department,** Joint Institute for Nuclear Research
3. Anna Belomestnova – Deputy Director for Innovation Development, Joint Institute for Nuclear Research
4. Alexander Bondar – Deputy Director for research, Budker Institute of Nuclear Physics (BINP)
5. Otilia Culicov – Deputy Director of Laboratory of Neutron Physics, Joint Institute for Nuclear Research
6. Ilya Dementiev – First Vice-Rector, St. Petersburg University
7. Alexander Fertman – Skolkovo
8. Timur Gareev – Senior Expert, Skolkovo Institute of Science and Technology
9. Gordienko Alexander - Department of Science and Technology, Ministry of Education and Science of the Russian Federation
10. Vitaliy Grigoryan – The main specialist-expert, Federal Agency for Scientific Organizations (FASO Russia);
11. Dmitry Kamanin – Head of International **Cooperation** Department, Joint Institute for Nuclear Research
12. Nikolai Kargin – Acting Vice-rector, Common Use Center of National Research Nuclear University MEPhI
13. Vladimir Kekelidze – Director of Laboratory of High Energy Physics, Joint Institute for Nuclear Research
14. Valery Kiselev – Director, Physics and Technology School of Fundamental and Applied Physics, Moscow Institute of Physics and Technology (MIPT)
15. Alexander Korznikov – Deputy Head of Development, Central AeroHydrodynamic Institute named after professor N.E. Zhukovsky (TsAGI)
16. Natalia Kosmodemianskaya – Head of Sponsored Programs Office, Skolkovo Institute of Science and Technology
17. **Anna Kotova** – Depute Head of International **Cooperation** Department, Joint Institute for Nuclear Research
18. Yuriy Kovalev – Head of Laboratory, Astro Space Center of Lebedev Physical Institute of the Russian Academy of Sciences
19. Yuriy Kozlov – Head of Department, National Research Centre «Kurchatov Institute»;
20. Timur Кulevoy – Deputy Director, Institute of Theoretic and Experimental Physics (ITEP) of National Research Center «Kurchatov Institute»
21. Albina Kutuzova – Expert, International Center for Innovations in Science, Technology & Education
22. Pavel Logatchev – Director, Budker Institute of Nuclear Physics (BINP)
23. Victor Matveev – Director, Joint Institute for Nuclear Research
24. Marina Melkonyan – Head of the NCP «Research Infrastructures», National University of Science and Technology «MISiS»
25. Nedelko Sergey – Head of Sector, Laboratory of Theoretical Physics, Joint Institute for Nuclear Research
26. Anatoly Petrukhin – Head of Unique Scientific Facility «Experimental complex NEVOD», National Research Nuclear University MEPhI
27. Аndrey Romanov – Head of Department, Federal Agency for Scientific Organizations (FASO Russia)
28. Nikolai Russakovich – Leading Scientific Researcher, Joint Institute for Nuclear Research
29. Alexander Sergeev – Director, Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS)
30. Boris Sharkov – Deputy Director, Joint Institute for Nuclear Research
31. Alexander Studenikin – Professor, Department of Theoretical Physics, Moscow State University
32. Marina Tumanova – Adviser to Director, Joint Institute for Nuclear Research
33. Alexey Vasiljev – Deputy Director for research and organization activity, Budker Institute of Nuclear Physics (BINP)
34. Valeriy Vlasyk – Director, Special Astrophysical Observatory of the Russian Academy of Sciences (SAO RAS)
35. Sergey Vorobyev – Scientific Secretary, Petersburg Nuclear Physics Institute named by B.P.Konstantinov of National Research Center «Kurchatov Institute»

**General information**

The 1st Meeting of the BRICS Working Group on Research Infrastructure and Mega-Science Projects (hereinafter – 1st Meeting of the WG) was held in Dubna (Moscow Region) on 15-16 May 2017. Representatives of the five member countries (Brazil, Russia, India, China, South Africa) were present. The Meeting was hosted by Russia and co-chaired by China.

As the host Russia welcomed the delegates from BRICS countries.

**Agenda of the 1st Meeting of the WG:**

1. National BRICS countries policy on global research infrastructure and development of the BRICS Global Research Advanced Infrastructure Network (hereinafter - BRICS GRAIN);
2. Terms of Reference (hereinafter – ToR) of the WG;
3. Country presentations on national infrastructures;
4. Discussion on accessibility of BRICS research infrastructure;
5. Round table discussion;
6. Approval of the Conclusions of the 1st Meeting of the BRICS Working Group on Research Infrastructure and Mega-Science Projects.

**Issues discussed:**

1. The 1st Meeting of the WG presented BRICS national policies on global research infrastructure and the views on the development of the BRICS GRAIN;
2. Terms of Reference with defined background, goals and tasks, function, memberships, mode of operation and reporting mechanism for the WG;
3. Country presentations on national infrastructures;
4. The 1st Meeting of the WG discussed the issue of accessibility of BRICS global research infrastructures;
5. The next 2nd WG Meeting date and venue.

**Actions to be taken:**

1. The 1st Meeting of the WG agreed that amendments, comments and additions to the Draft ToR will be submitted within 3 weeks and proposed the deadline for final approval of the ToR should be the end of June 2017;
2. Each member country to nominate a national Focal Point from government officials and nominate experts as well as representative(s) from designated research institutions to facilitate communication between the members of the WG before the end of June 2017;
3. For the benefit of creating BRICS competitive and open infrastructure environment each member country should define the primary table of national research infrastructures to be included in the List of Research Infrastructures by 1 September 2017;
4. Approve the List of Research Infrastructures at the 2nd Meeting of the WG;
5. Agreed on the need to develop a set of guidelines to facilitate access to large-scale infrastructure and Mega-Science projects for the BRICS;
6. Identify potential areas or projects for cooperation within the framework of BRICS GRAIN at the 2nd Meeting of the WG;
7. Enhance communication and cooperation with working groups of thematic areas, thus identify potential areas or projects from BRICS GRAIN;
8. Propose to the 3rd Meeting of the BRICS Science, Technology & Innovation (STI) Funding WG to include “fundamental research at large-scale infrastructure” and “creation of full-cycle projects based on large-scale infrastructure” in the list of priority areas of the 2nd coordinated call under the BRICS STI Framework Programme (29-31 May 2017);
9. The 1st Meeting of the WG agreed on the following Road Map steps for the development of the BRICS GRAIN:

* development of common standards/descriptors of defined research infrastructures for open public announcement;
* establishment of unique web portal for on-line request and access to defined research infrastructures within BRICS;
* establishment of a research mobility instrument to allow quick and easy access to research infrastructures within BRICS;
* development of a framework on intellectual property rights for joint R&D within BRICS GRAIN;
* identification of research infrastructure projects that may be submitted to the New Development Bank based upon expert evaluation and demand rating.

1. The 1st Meeting of the WG recognized the importance of cooperation with international organizations and institutes (GSO, ESFRI, GSF etc.);
2. The 1st Meeting of the WG recognized the importance of the relationship between Mega-Science projects and innovation and its significance for transferring scientific knowledge to the society;
3. The results of the 1st Meeting of the WG are to be reported at the STI Senior Officials Meeting on 17 July 2017 in Hangzhou (China) and included in the Ministerial Declaration;
4. Date and Venue of the 2nd WG Meeting: 1st quarter of 2018, Brazil.

Present Conclusions discussed and approved by the 1st Meeting of the WG.

The representatives of the five BRICS countries expressed their gratitude to the Joint Institute for Nuclear Research (JINR) for kindly hosting the 1st Meeting of the Working Group on Research Infrastructure and Mega-Science Projects and thanked JINR for organizing an extensive visit to its large-scale infrastructure, including NICA mega-science project, Cyclotron complex, Research reactor IBR-II.