

Belt and Road International Science Education Coordinating Committee (BRISECC)

Operating Guidelines

1. Objective

In face of the new situations of rapid global scientific development, deepening international exchanges and cooperation, and interaction between different cultures, the significance of science education has gained wide attention globally. Teenagers are the fresh troops and major force of scientific development, and science education requires collaboration from all sectors of society. Belt and Road International Science Education Coordinating Committee (hereinafter referred to as BRISECC) continuously promotes the coordinated development and common prosperity of the international science education through extensive cooperation among government departments, scientific organizations, schools and enterprises.

BRISECC serves as a coordination mechanism and high-level science education collaboration platform to boost resource and information sharing, personnel exchange, as well as deep cooperation among members. All members join and work under BRISECC on a voluntary basis.

2. Structure

The BRISECC has one president and four vice-presidents. Members of BRISECC include member organizations and individual members. Member organizations should nominate or recommend individual members to perform duties on behalf of member organizations. World renowned scientists or experienced educators are also encouraged to be individual members. There are also secretariat and working panels under the BRISECC.

3. Presidency and Vice-presidency

3.1 Presidency

Electoral system is adopted with a term of three years. The president should be recommended by members and elected by members during the annual meeting. The president of BRISECC will:

- be responsible for chairing the annual meeting;
- owns the right to recommend the next presidential candidate;
- providing guidance on the activities, meetings and training programs carried out under the framework of BRISECC;
- recommend and mobilize influential organizations in the field of science education to join the BRISECC and jointly promote the wide attention and participation of all social parties in science education;
- actively mobilize members to perform their responsibilities.

3.2 Vice-presidency

One vice-president concurrently serves as the secretary-general, and the other three vice-presidents offer guidance on the work of the three working panels. In the absence of the president, one of the vice-presidents will perform the president's duties on his/her behalf. When any vice-president is unable to perform his or her duties, the member organization represented by the vice-president shall have to submit a written notification to the secretariat and recommend a new candidate, which will be submitted by the secretariat to the president for approval.

4. Participation in and resignation from the BRISECC

- 4.1 Member organizations comprise international organizations, regional organizations and country organizations. They should lay a certain working basis on teenager science education, be able to affect a certain number of teenagers and science instructors, and possess the ability to organize teenager science education exchange activities;
- 4.2 Member organizations share the spirit of "Belt and Road Initiative" and join the BRISECC on a voluntary basis;
- 4.3 More than one organization within each country shall be allowed to join the BRISECC;
- 4.4 A written application is required for a new organization to join, and will be submitted to the BRISECC by the Secretariat for reviewing and

approved by the annual meeting;

- 4.5 Each member organization should nominate or endorse one person as an individual member of BRISECC. Individual members shall fully understand the work of the organization. If any individual member is unable to participate in meetings and activities under the framework of BRISECC, a representative may be designated to perform his or her duties on his or her behalf; any member organization may change its representative after submitting a written notification to BRISECC;
- 4.6 World renowned scientists and experienced educators with passion to promote international science education collaboration are also encouraged to join BRISECC as individual members and should be recommended or endorsed by a member organization;
- 4.7 If any member organization resigns from BRISECC, a written notification will be required; if any member organization fails to perform its responsibilities for three consecutive years, its BRISECC membership shall be cancelled, and its individual membership of BRISECC shall be cancelled accordingly. On every three years' annual meeting, the work of member organizations under the framework of BRISECC shall be submitted to the BRISECC by the Secretariat. The list of disqualified member organizations will be approved then.

5. Rights and Responsibilities of Member Organizations and Individual Members

- 5.1 Actively participate in the work of BRISECC;
- 5.2 Be accessible to secretariat and other member organizations;
- 5.3 Work as part of a team toward fulfilling the BRISECC's objectives;
- 5.4 Recommend and mobilize more influential organizations in the field of science education to join BRISECC to jointly promote the wide attention to and participation in science education;
- 5.5 Being encouraged to use the science education resources developed under the framework of BRISECC;
- 5.6 Enjoy a certain priority during the participation in the Belt and Road teenager science events under the framework of BRISECC;
- 5.7 Being encouraged to share local resources, jointly develop resources with other members, promote and localize the application of above resources;
- 5.8 Being encouraged to work together with other members on mutually interested topics in forms of teacher training, forums, seminars, etc. to enhance the capacity and skills of science instructors;
- 5.9 Actively select qualified teenagers to participate in the Belt and Road teenager events under the framework of BRISECC and activities organized by other member organizations;
- 5.10 Being encouraged to co-host science competitions and exchange activities with diverse themes and of various types on a voluntary basis;

- 5.11 Promote exchanges and cooperation among teenagers, science educators, scientists, etc. among countries;
- 5.12 Submit information on member organizations' science education work, science contests, exchange activities and teacher training, etc. in May and November each year to the Secretariat for sharing with other member organizations;
- 5.13 Full communication with BRISECC shall be required before member organizations carry out any kind of events in the name of BRSECC. And detail information about the events should be submitted to the Secretariat for review and recording in advance;
- 5.14 Member organizations and individual members shall perform their responsibilities on a *pro bono* basis.

6. Working Panels

The first BRISECC consists of three panels:

6.1 Panel on teenager science education events

Members are encouraged to fulfill the following responsibilities:

- 6.1.1 Promote science contests and exchange activities for teenager under the framework of BRISECC and mobilize more countries to participate in, etc. Belt and Road Teenager Maker Camp & Teacher Workshop;
- 6.1.2 Co-host science competitions and exchange activities with diverse themes and of various types on a voluntary basis;

6.2 Panel on science instructor development

Responsible for mobilizing member organizations to jointly work on teacher training, forums, seminars, etc. to enhance the professionalism and skills of science instructors.

6.3 Panel on science education resources

Responsible for promoting member organizations to share local science education resources, guiding them to cooperate in the development of science education resources and promoting their application and promotion in their own country.

All individual members shall join at least one panel. The secretariat recommends individual members of panels after consulting relevant individual members and submits the list of members to the BRISECC for its consideration and approval.

7. Responsibilities of the Secretariat

The secretariat is permanently located in Children & Youth Science Center of CAST and takes responsibility for:

- 7.1 Holding the Belt and Road Teenager Maker Camp & Teacher Workshop every year, and actively improving the quality of the event;
- 7.2 Organizing featured events during China Adolescents Science and Technology Innovation Contest (CASTIC) and World Adolescents Robotics Competition (WARC) for BRISECC member countries every summer;

- 7.3 Organizing the BRISECC annual meeting and drawing up the meeting plan based on opinions from individual members;
- 7.4 Actively promoting cooperation among member organizations in the field of science education;
- 7.5 Strengthening the ties among member organizations for them to share their working achievements and information and drawing up the BRISECC's semi-annual report accordingly;
- 7.6 Actively ensuring that member organizations and individual members enjoy their rights and fulfill their responsibilities.

8. Working Mechanism

8.1 Annual Meeting

The annual meeting shall be held during the annual maker camp, and each individual member should attend the meeting. The secretariat shall collect and compile suggested topics from individual members, and provide the final meeting agenda with the president's approval.

8.2 Semi-annual Report

The members shall submit information on their science education work, and their science contests, exchange activities and teacher training, etc. in May and November each year, and the secretariat shall compile a semi-annual report.

9. Financial Arrangement

In general, when host activities and conferences under the framework of BRISECC, hosting member organizations shall bear the relevant local costs of participants including accommodation, meals, local transportation, etc. It's expected that member organizations will bear the international travel expenses of its individual members that serve on BRISECC in principle.

9.1 Each member organization takes responsibility for:

9.1.1 Related costs of cooperation with other members, such as applying science education resources, co-organizing training and forum, etc.

9.1.2 Related costs within member organization's country/ region of organizing teenagers and science teachers to participate in events under the framework of BRISECC;

9.1.3 Travel costs of individual members to participate in events under the framework of BRISECC.

9.2 The secretariat takes responsibility for:

9.2.1 The operating costs of the secretariat;

9.2.2 The annual meeting expenses as well as the accommodation and related expenses of individual members connected with participation in annual meeting;

9.2.3 Costs related to activities held in China under the frame work of BRISECC and local costs of participants.

10 Interpretation and Modification of the Guideline

10.1 The power of final interpretation shall be vested in the secretariat;

10.2 The secretariat shall have the right in revising the Guideline of BRISECC, which will take effect after it is reviewed and approved by all member organizations.

Appendix

Belt and Road Science Education Coordinating Committee (BRISECC) Structure

I President

Prof. WU Yueliang, China

II Vice president

Dato Lee Yee Cheong, Malaysia, leading the panel on science education resources

Prof. Manzoor Hussain Soomro, Pakistan, leading the panel on science instructor development

Mr. Oksen Lisovyi, Ukraine, leading the panel on teenager science education events

Mr. Liu Yang, China, concurrently serves as the Secretary General

III Secretariat

The secretariat is permanently located in the Children & Youth Science Center of CAST (CYSC)

The Secretary General:

Mr. Liu Yang

The Deputy Secretary General:

Ms. Zhu He

Staffs:

Ms. Yang Feng

Mr. Qian Cheng

IV Member organizations and individual members

Prof. WU Yueliang, Academician of Chinese Academy of Sciences (CAS) and Vice-President of the University of Chinese Academy of Sciences (UCAS)

International Organizations and individual members:

The InterAcademy Partnership Science Education Program (IAP SEP), *Dato Lee Yee Cheong*

ECO Science Foundation (ECOSF), *Prof. Manzoor Hussain Soomro*

The Network of African Scientific Academies (NASAC), *Ms. Jackie Kado Olang*

Country Organizations:

Australia: LAZSTA (Met South West Science Teachers Association), *Dr. Ken Silburn*

Azerbaijan: Ministry of Education of Azerbaijan, *Mr. Omarov Yashar*

China: Children & Youth Science Center of CAST, *Mr. Liu Yang and Ms. Zhu He*

China Association of Children's Science Instructors, Ms. Lin Liqin

Indonesia: SEAMEO QITEP in Science, Indonesia, *Dr. R. Indarjani*

Iran: National Organization for Development of Gifted Talents and Young Scholars, *Dr. Fatemeh Mohajerani*

Malaysia: Academy of Sciences, Malaysia, *Dato Lee Yee Cheong*

Myanmar: Total Learning Academy, *TBD*

Pakistan: Ministry of Science and Technology, Government of Pakistan,

Mr. Iqbal Muhammad Zafar

Tajikistan: Academy of Sciences of Republic of Tajikistan, *Prof. Jamshedov*

Parvonakhon

Thailand: National Science Museum Thailand, *Dr. Aphiya Hathatiyatham*

The Czech Republic: The Czech Association of Scientific and Technical

Societies, *Mgr. Jan Netolič ka*

Tunisia: Tunisian Association for Future of Science and Technology, *Mr.*

Hate Slimane

Turkey: Ministry of National Education of Turkey, *Ms. Olga Sanli GERGER*

Ukraine: Junior Academy of Sciences of Ukraine, *Mr. Oksen Lisovyi*

Observer organizations:

United Nations International Children's Emergency Fund (UNICEF)

Vietnam: National Institute for S&T Policy and Strategy Studies

V Working Panels

6.1 Panel on teenager science education events

Chairman: Mr. Oksen Lisovyi, Ukraine

Members:

Dr. Aphiya Hathatiyatham, Thailand

Mr. Oksen Lisovyi, Ukraine

Mr. Liu Yang, China

Dr. Fatemeh Mohajerani, Iran

Mgr. Jan Netolič ka, the Czech Republic

Mr. Hate Slimane, Tunisia

Prof. Manzoor Hussain Soomro, Pakistan

6.2 Panel on science instructor development

Chairman: Prof. Manzoor Hussain Soomro, Pakistan

Members:

Dr. R. Indarjani, Indonesia

Ms. Lin Liqin, China

Dr. Fatemeh Mohajerani, Iran

Dr. Ken Silburn, Australia

Mr. Hate Slimane, Tunisia

Prof. Manzoor Hussain Soomro, Pakistan

Ms. Zhu He, China

6.3 Panel on science education resources

Chairman: Dato Lee Yee Cheong, Malaysia

Member Organizations:

Ms. Olga Sanli Gerger, Turkey

Dato Lee Yee Cheong, Malaysia

Ms. Lin Liqin, China

Dr. Fatemeh Mohajerani, Iran

Mr. Omarov Yashar, Azerbaijan