

PROTOCOL
of the 1st meeting of the Croatia-Korea Joint Committee
for Science and Technology Cooperation

Based on the Memorandum of Understanding between the Ministry of Science and Education of the Republic of Croatia and the Ministry of Science and ICT of the Republic of Korea on Science and Technology Cooperation, signed on February 13, 2019, the 1st meeting of the Croatia-Korea Committee for Scientific and Technical Cooperation (hereinafter – “the Committee”) between the Ministry of Science and Education of the Republic of Croatia and the Ministry of Science and ICT of the Republic of Korea was held in Zagreb on December 10, 2019.

The Croatian delegation was headed by Tome Antičić, State Secretary of Ministry of Science and Education of the Republic of Croatia.

The Korean delegation was chaired by Mun Mi Ock, First Vice Minister of Science and ICT of the Republic of Korea.

The list of participants from both Parties is indicated in Annex I.

The Committee adopted the following agenda:

1. Exchange of actual information on the directions of Croatia’s and Korea’s science, technology and innovation policy;
2. Autonomous Vehicle Cooperation between the science institutes of the Republic of Croatia and the Republic of Korea;
3. Bio Cooperation between the science institutes of the Republic of Croatia and the Republic of Korea;
4. Atomic Energy Cooperation between the science institutes of the Republic of Croatia and the Republic of Korea;
5. Setting the date and place of the 2nd meeting of the Committee.

1. Exchange of actual information on the directions of Croatia's and Korea's science, technology and innovation policy

The two Sides presented on science and technology policy. The Korean delegation stressed the importance of diplomatic efforts in the field of science and ICT and Korea's efforts to respond to the Fourth Industrial Revolution, to contribute to co-prosperity by achieving SDGs, and to protect health and lives of global citizens by addressing various environmental problems. Also, Korea introduced ODA projects, sharing experience and know-how of its successful transition from an aid recipient of the OECD to a donor. The Korean Side envisioned an innovative and inclusive nation through science and ICT diplomacy. The Croatian Side introduced the reform of scientific and technological system and the latest S&T and innovation development in Croatia.

2. Autonomous Vehicle Cooperation between the scientific institutes of the Republic of Croatia and the Republic of Korea

ETRI is researching and developing SW solutions using artificial intelligence based on South Korea's traffic data to determine location, multi-object detection and dynamic driving tasks through fusion of camera and LIDAR sensors. ETRI proposes the following cooperation with the University of Zagreb to verify autonomous driving technology suitable for the Croatia traffic situation. The University of Zagreb utilizes the Croatian automotive platform and validates the self-driving technology developed by ETRI based on Croatia's traffic conditions. To do this, a vehicle capable of sharing vehicle control information produced by Rimac should be available at the University of Zagreb. Both Sides expressed hope that the advanced technology will be continuously shared to cooperate in strengthening competitiveness in the mobility service markets based on autonomous driving technology in each country. The Croatian Side strongly supports autonomous vehicle cooperation between the scientific institutes of the Republic of Croatia and the Republic of Korea. The Laboratory for Autonomous Systems and Mobile Robotics (LAMOR) at University of Zagreb, Faculty

of Electrical Engineering and Computing has a long tradition in research of advanced control strategies and estimation techniques for a variety of applications. There is an opportunity to strengthen industrial and technological cooperation between two countries creating synergetic benefits.

3. Bio Cooperation between the science institutes of the Republic of Croatia and the Republic of Korea

Korea Research Institute of Bioscience and Biotechnology (KRIBB) suggests launching a joint project in the field of development of diagnostic tools for detection of glycan biomarkers in human disease between University of Zagreb and KRIBB. Potential R&D subjects can be categorized as below:

- Discovery of diagnostic and prognostic biomarkers;
- Development of diagnostic tools for glycan epitopes;
- Clinical application for monitoring glycan biomarkers.

Since the Republic of Croatia has particular strength in this field, the Croatian side supports possible joint project in the field of development of diagnostic tools for detection of glycan biomarkers in human disease between the science institutes of the Republic of Croatia and the Republic of Korea.

4. Atomic Energy Cooperation between the science institutes of the Republic of Croatia and the Republic of Korea

Korea Atomic Energy Research Institute (KAERI) suggests launching a cooperative program in preparation of disinfection SOP (standard operating procedure) for the preservation of traditional heritage between two countries. Potential R&D subjects can be identified as below:

- Radiation technology for preservation of cultural heritage;
- Radiation technology for disinfection of mass wood and traditional organic materials;
- Mössbauer spectroscopy techniques and ion-beam analysis for restoration and preservation of cultural heritage;

- Development of heritage characterization method using nuclear techniques including neutron activation analysis and radiography.

Activities carried out by the Sides under the identified subjects may include the following:

- Meetings organized to discuss specific technical topics and cooperative activities;
- Visits of individuals or teams from one Side to the facilities of the other Side;
- Transmittal of information from one Side to the other Side and,
- Assessing the role of current facilities, or planning for future facilities.

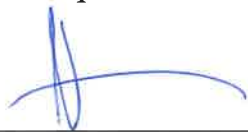
The Ruđer Bošković Institute is regarded as Croatia's leading scientific institute. Cultural heritage is our common scientific interest as well as the use of radiation to preserve it. Croatia possesses technology and a wide spectrum of experience in cultural property preservation, which would bring synergy effects when converged with Korea's radiation technology. This cooperation can also contribute to the preservation of cultural heritage world-wide.

5. Setting the date and place of the 2nd meeting of the Committee

The Parties agreed to hold the 2nd meeting of the Committee in 2021 in Seoul. Specific terms will be approved by the parties additionally.

Signed in Zagreb on December 10, 2019, in duplicate, in the English language, both texts being equally authentic.

For Ministry of Science
and Education
of the Republic of Croatia



For Ministry of Science
and ICT
of the Republic of Korea

