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Special issue: diverse forms of international S&T cooperation

Minister Wan Attends Sixth Round of China-U.S. S&ED

During July 9-10, 2014, Mr. Wan Gang, Minister of Science and Technology of China, attended the sixth round of the China-U.S. Strategic and Economic Dialogue in Beijing.

At the meeting for the economic dialogue, Minister Wan reported the outcomes and agreements of the fifth China-U.S. Innovation Dialogue, noting the importance of IPR collaboration, with a particular emphasis on the two sides' efforts on IP creation, exploitation and protection through the China-U.S. Clean Energy Research Center.

At the meeting for the strategic dialogue, Minister Wan made a presentation on bilateral S&T collaboration, involving the progress in innovation policies, energy, agriculture, environment, health, people-to-people exchange, basic research, marine science, meteorology, and earthquake science. Multiple achievements in the

field of science and technology have been put on the deliverable list of this strategic dialogue.

This year marks the 35th anniversary of China-U.S. diplomatic relations, and 35th anniversary of the signing of *China-U.S. Agreement on Cooperation in Science and Technology*. Over the years, through *China-U.S. Joint Commission Meeting on Science and Technology Cooperation and Innovation Dialogue*, the two countries have seen deeper and wider collaboration in the field of science and technology, greatly boosting bilateral relations and economic and trade links, and contributing to economic and social development and people's wellbeing. The solid foundation and strong desire for cooperation will contribute positively to the establishment of a new model of major-power relations.

(Source: Ministry of Science and Technology, August 27, 2014)

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2nd Forum on China-ASEAN Technology Transfer and Collaborative Innovation Held in Nanning

During September 14-16, 2014, the Second Forum on China-ASEAN Technology Transfer and Collaborative Innovation, co-sponsored by the Ministry of Science and Technology (MOST) and the government of Guangxi Zhuang Autonomous Region, was held in Nanning, Guangxi. As an annual landmark event of China-ASEAN Technology Transfer Center (CATTC), this year's forum, with the theme of innovation, cooperation and development, included a series of activities such as High-level Dialogue and Promotion on Industrial Technology Cooperation Demands, China-ASEAN Science, Technology and Innovation Workshop, China-ASEAN Agricultural Science and Technology Forum, the Technology Exhibition at the 11th China-ASEAN Expo, China-ASEAN Beidou Satellite Technology Transfer Workshop, China-ASEAN Technology Match-making Events, and the visit to China-Malaysia Qinzhou Industrial Park. The event attracted more than 800 participants from both China and ASEAN countries. Dr. Cao Jianlin, Vice Minister of Science and Technology of China, and his counterparts in Cambodia, Laos, Myanmar, and Thailand attended the high-level dialogue and delivered keynote speeches. Mr. Huang Ribo, Vice Chairman of the government of Guangxi Autonomous Region, also addressed the event.

Before the opening of the high-level dialogue, the leaders of science authorities of China, Laos, Cambodia and Thailand, and Guangxi government co-witnessed the signing of 15 joint projects and the launch of China-ASEAN Mobile Internet Industrial Alliance. The projects include China-Thailand Technology Transfer Center, China-Laos Technology Transfer Center, Southeast Asia Mobile Payment Fast Track, Beidou and Earth Space Industry Demonstration Base, Satellite Navigation collaboration, China-Thailand Science Popularization collaboration, and Crop Research Cooperation Base.

Vice Minister Cao briefed the participants on the

latest progress in science and technology of China and China-ASEAN Science and Technology Partnership Program (China-ASEAN STEP), with a particular emphasis on the building of joint labs, CATTC, China-ASEAN Remote Sensing Satellite Data Sharing Service and Platform, and Talented Young Scientist Visiting Program (TYSP). He noted that China-ASEAN STEP, based on the principle of equality and mutual benefit, demand orientation, capacity building and broad participation, aims to share experience in developing science and technology, and build up scientific and technological capacities within the region through bilateral and multilateral cooperation. The Program has attracted great attention from leaders of China and ASEAN states. The activities under China-ASEAN STEP were listed in the *Joint Statement on Marking the 10th Anniversary the Establishment of China-ASEAN Strategic Partnership* jointly issued by Chinese and ASEAN leaders in October 2013.

The vice minister also introduced that under the framework of China-ASEAN STEP, MOST will further implement the Joint Statement with focus on the following respects: 1. Facilitate on-going collaboration on joint labs, technology transfer centers, Remote Sensing Satellite Data Sharing Service and Platform, and TYSP. 2. Pursue science, technology and innovation (STI) policy interaction. For this purpose, MOST will set up China-ASEAN STI Policy Research Center, and build a network covering STI policy research agencies of ASEAN countries, sharing experience in S&T plans and strategies, science parks and incubators, innovation- and entrepreneurship-friendly policies. 3. Accelerate the building of China-ASEAN Agriculture Science and Technology Network. This will serve as a platform for collaboration among research institutes, universities, enterprises and associations related to agriculture. 4. Push forward China-ASEAN Action Plan on New and

Renewable Energy. This aims to boost the technologies for exploiting new and renewable energy sources, develop new energy industries, shift and improve the energy mix, in a joint effort to address climate change and tackle energy shortage.

Representatives of ASEAN member states, including Mr. TUNG CINY, Deputy State Secretary of the Ministry of Industry and Handicraft of Cambodia, Mr. Sakhone CHALEUNVONG, Deputy Minister of Science and Technology of Laos, Mr. Ba Shwe, Vice Minister of Science and Technology of Myanmar, and Mr. Anond Snidvongs, Executive Director of Geo-informatics and Space Technology Development Agency of Thailand, proposed recommendations for technology transfer and innovation collaboration with China base on their own circumstances and priorities in science and technology. Mr. Sok Chea, Deputy Director General of the Ministry of Industry and Handicraft of Cambodia, Mr. Soumana CHOULAMANY, Director-General of the Department of Technical Innovation of the Ministry of Science and Technology of Laos, Mr. Phyu Phyu Win, Director of the Institute of Science and Technology of the Ministry of Science and Technology of Myanmar, Mr. Suwat Kamolpanus, Vice President of Renewable Energy Group of the Federation of Thai Industries, Mr. UTAMAKAJO, President of Indonesian Chamber of Commerce and Industry, Mr. U Win Kyaing, member of Central Executive Committee of Renewable Energy Association Myanmar, introduced their industrial technologies, attracting wide attention.

A total of 120 enterprises and institutions attended the technology exhibition, showcased more than 130 joint projects. National Science and Technology Development Agency of Thailand, Business Incubation Center of Prince of Songkla University's Science Park of Thailand, China Railway Engineering Equipment Group Co. Ltd,

Wuhan Optics Valley Beidou Geo-spatial Information Industry Co. Ltd, Shenzhen Haiwang Group, and Shenzhen Neptunus Group are just a few examples. And 215 enterprises and agencies attended the match-making events, including the Ministry of Science and Technology of Thailand, the Ministry of Energy of Thailand, Renewable Energy Association Myanmar, Malaysia Biomass Industries Confederation, Vietnam Liquor, Beer and Beverage Association, Transpacific IP Group of Singapore, Lvzi (Shanghai) Information Technology Co. Ltd, and Youjingtian (Beijing) International Water Environment Research Center. Four match-making events were held in the fields of agriculture, new energy, biomedicine, electronic information, energy saving and environment protection, matching over 200 projects.



(Source: Ministry of Science and Technology, September 30, 2014)

China-ASEAN Science and Technology Forum Held in Kunming

On June 17, *China-ASEAN Science and Technology Forum – Workshop on International Cooperation against Climate Change* was held in Kunming. This workshop is designed to facilitate China-ASEAN cooperation addressing on climate change by strengthening bilateral exchanges and exploring modes and mechanisms of international cooperation. The participants conducted in-depth exchanges on measures, cooperation mechanisms, experiences and achievements against climate change.

In recent years, Yunnan Provincial Science and Technology Department has been strengthening the cooperation of science and technology (S&T) with countries in Southeast Asia and South Asia by dedicating itself to building platforms and mechanisms such as the Forum. Mr. Long Jiang, Director General of Yunnan Provincial Science and Technology Department, said that since the establishment of the Forum in 2009, 14 international S&T conferences, forums, B2B meetings and technology training workshops had been held, with the focus on the development and utilization of new and renewable energy, promotion and application of integrating solar energy with constructions, as well as seeding technology and trade. With an aim to promoting the transfer and export of advanced appropriate technologies and products from China (Yunnan in particular) to ASEAN, the aforementioned activities have been attended by more than 1,000 representatives, among which over 400 came

from governments, universities, research institutes and companies in ten ASEAN member states, ROK, Mongolia, India and Nepal, the Secretariat of ASEAN, the Asian and Pacific Center for Transfer of Technology (APCTT) of the UN, the Committee of Renewable Energy (CORE) of the Greater Mekong Sub-region, as well as other international organizations. Thanks to the Forum, over 30 project-cooperation agreements have been signed between relevant institutions inside and outside the province and ASEAN. The Forum has laid a solid foundation for fostering a more harmonious and favorable environment for S&T cooperation by boosting pragmatic S&T projects through extensive and in-depth exchanges. Currently, the Forum is growing into an effective platform for S&T exchanges and cooperation between ASEAN and Yunnan as well as other Chinese provinces.



(Source: Science & Technology Daily, June 20, 2014)

4th Meeting of Policy Partnership on Science, Technology and Innovation of Asian-Pacific Economic Cooperation Held in Beijing

From September 17 to 19, 2014, the 4th Meeting of Policy Partnership on Science, Technology and Innovation (PPSTI) of APEC, the exhibition of PPSTI achievements, the award ceremony for the 2014 APEC Science Prize for Innovation, Research and Education (ASPIRE) and other relevant activities were held in Beijing. Dr. Cao Jianlin, Vice Minister of Science and Technology, attended the welcoming banquet and rewarded winners of the ASPIRE award.

The meeting was sponsored by the Ministry of Science and Technology (MOST) and attended by representatives from the Association of Pacific Rim Universities (APRU), Macao SAR as well as governments, business community and academia of 18 APEC economies, including China, the US and Russia. During the meeting, the participants updated the progress in APEC STI (science, technology and innovation), reviewed achievements over the year, and discussed PPSTI development and work plans.

The achievements included the passing of an APEC innovation-driven development initiative put forward by China and the White Paper on the Internet of Vehicles, as well as the election of 2015-2016 members of the Governing Board – the leading body of PPSTI. As the result of all parties' consensus, the innovation-driven development initiative will serve as the guideline for PPSTI's future work, with far-reaching and profound impact on APEC innovation cooperation. China was elected the chair of PPSTI from 2015 to 2016.

Background information:

As a collaboration mechanism featuring the highest rank and widest participation in Asia-Pacific, APEC is

of vital importance to regional economic integration as well as economic and technological cooperation. China is the host of the 2014 APEC meeting with the theme of “shaping the future through Asia-Pacific Partnership”. The priorities are advancing regional economic integration, promoting innovative development, economic reform and growth, and strengthening comprehensive connectivity and infrastructure development. The APEC Leaders' Informal Meetings, Ministerial Meetings, Senior Officials Meeting and Working Group Meeting will all be held in China this year.

In August 2012, the former Industrial Science and Technology Working Group (ISTWG) was restructured into PPSTI. Based on member economies' consensus that innovation is an important approach to improve growth quality and realize common prosperity in Asia-Pacific, PPSTI has become one of the working groups under the Steering Committee on ECOTECH (SCE) of APEC. The Governing Board, is composed of the Chair, two Vice-chairs and the Principal Advisor. Chinese representatives now act as the First Vice-chair and the chair of the work group on science capacity building, and will be the chair of PPSTI from 2015 to 2016.

The APEC Science Prize for Innovation, Research and Education (ASPIRE) was set up and funded by the US in 2011, with an aim to strengthen the function of APEC in promoting growth, trade, investment and sustainable development through policy, innovative R&D, technology and knowledge sharing, establish an international science and technology network, and encourage the integration of research with innovation.

(Source: Ministry of Science and Technology, October 8, 2014)

China-Central Asia Technology Innovation and Cooperation Forum Held in Xinjiang

China-Central Asia Technology Innovation and Cooperation Forum was held in the R&D base of the Chinese company Tebian Electric Apparatus Stock Co., Ltd. (TBEA) on September 2, 2014 during the 4th China-Eurasia Expo was held in Changji city, Xinjiang Uygur Autonomous Region. The theme of the forum was “jointly developing energy science and technology and sharing cooperative achievements”. Sponsored by the Ministry of Science and Technology (MOST) and the government of Xinjiang Uygur Autonomous Region, the forum was organized by Xinjiang Department of Science and Technology, Changji Municipal Government and TBEA. Ms. Tian Wen, Vice-Chairman of the Xinjiang Uygur Autonomous Region, Mr. Ma Linying, Deputy Director General of International Cooperation of MOST, and Mr. Qi Dayu, Chinese Ambassador to Kyrgyzstan respectively addressed the Forum. Mr. Zhang Xiaolei, Director General of Xinjiang Department of Science and Technology, chaired the Forum.

About a hundred overseas representatives from 28 countries, including Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, India, Bangladesh, Malaysia, Sri Lanka, Angola, D. R. Congo, Republic of the Congo and Bolivia attended the forum. Around 200 experts from research institutes, prestigious universities, and high-tech enterprises from China and neighboring countries were involved in the event. Some of them made presentations and delivered keynote speeches on technology innovation and development of new energy, power transmission and transformation. The participants exchanged ideas on driving the growth of the Silk Road Economic Belt through science, technology and innovation. They also shared experiences in infrastructure building, energy

exploitation, power source and grid construction. It was agreed that emphasis would be put on R&D, talent, and science parks. On the sidelines of the forum, the participants also made visits to the pilot zone of industrialization and R&D base of TBEA.

It was the first time for the forum to be hosted in a company, which reflected MOST’s efforts and practice in promoting a deeper involvement of science and industrialization. This forum expanded and deepened technological development and international cooperation in new energy, power transmission and transformation. It further promoted sustainable energy development, and enhanced mutual understanding and cooperation between China and the countries that are geographically located along the Silk Road.



(Source: Ministry of Science and Technology, September 23, 2014)

China-South Asia Science and Technology Partnership Program Launched

President Xi Jinping delivered an important speech expressing a willingness to widen and deepen China's cooperation with South Asian countries at the Indian Council of World Affairs on September 18, 2014. During his state visit to India, President Xi also announced that China would work together with South Asian countries in implementing the China-South Asia Science and Technology Partnership Program.

South Asia is bounded by West Asia, Central Asia and Southeast Asia. In this region, there are five countries adjoining China. The population of China and South Asia account for 1/3 of the world population. Therefore it is of great political and economic significance for China to work together with South Asian countries. On June 6, 2014, the China-South Asia Ministerial Meeting on Science and Technology was held in Kunming City. Dr. Wan Gang, Chinese Minister of Science and Technology made a presentation on deepening pragmatic cooperation with South Asia and outlined the vision for the science and technology partnership. The South Asian countries were very supportive of the partnership and eager to share China's experience of development. They also put

forward demands for the collaboration. During President Xi's state visit to India from September 17 to 19, he officially announced the initiation of the partnership program.

The science and technology partnership program is an important step for China to promote collaboration with other developing countries. Under the framework of the partnership program, China will help relevant countries enhance their capacity for science, technology and innovation according to their own demands through joint labs, talented young scientist visiting program (TYSP), and training programs on appropriate technologies. China will also promote the transfer of advanced appropriate technologies through international technology transfer centers, demonstration and extension bases for advanced technologies, and international agricultural technical task forces (TTF). China is willing to share its experiences of development with other countries through policy planning and consulting on innovation.

(Source: Ministry of Science and Technology, October 8, 2014)

5th Harbin International Science and Technology Exhibition and Fair Held

The 5th Harbin International Science and Technology Exhibition and Fair was held at the Harbin International Conference and Exhibition Center from June 30th to July 4th, 2014. 399 experts from 18 countries and regions attended the exhibition. 1,736 proposals were collected and 288 projects were on display during the event. 316 overseas participants brought 1,571 project proposals,

210 of which were showcased. The five-day event was rounded off with contracts signed for 121 projects and tentative agreement on cooperation reached for 72 projects.

An international event featuring CIS countries

This year's Exhibition and Fair had broader

representation, with 80 delegates coming from the UK, ROK, Japan, Bulgaria, Hungary, Czech and Taiwan. Many renowned domestic and overseas science parks were also represented at the Harbin Exhibition and Fair, e. g. Harbin High-tech Zone, Shenzhen High-tech Zone, Beijing Zhongguancun Science Park, Russian Yakut Scientific Center, Industrial Park in Belarus and Russian Skolkovo Innovation Center.

Good brand effect and wider participation

Since it was launched eight years ago, Harbin International S&T Exhibition and Fair has become a window of Harbin to the world and good model of China's cooperation with international partners. This year, 18 countries and regions sent 9 exhibition

delegations and 330 experts to the event, a big increase over the 4th exhibition. The 3D virtual exhibition was also adopted during the event.

Showcase of new achievements and a platform for technology transfer

The focus of the event was equipment manufacturing, new materials, new energy and environment protection, and bio-engineering. Emphasis was also put on emerging industries, such as smart city, energy conservation and emissions reduction, environmental protection, robots, and resource recycling. Over 1,500 high-tech proposals from 34 countries and regions were collected, with 300 of them selected and showcased.

(Source: Science and Technology Daily, July 4, 2014)