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“Top Ten Achievements of Talent Introduction for the 65th Anniversary of New China” Announced

To celebrate the 65th anniversary of the People’s Republic of China, *International Talent* magazine of Information Research Center of International Talent, SAFEA, launched a poll to choose top achievements of talent introduction, and announced the results of “Top Ten Achievements of Talent Introduction for 65th Anniversary of New China” today. And the list as follows is in no particular order.

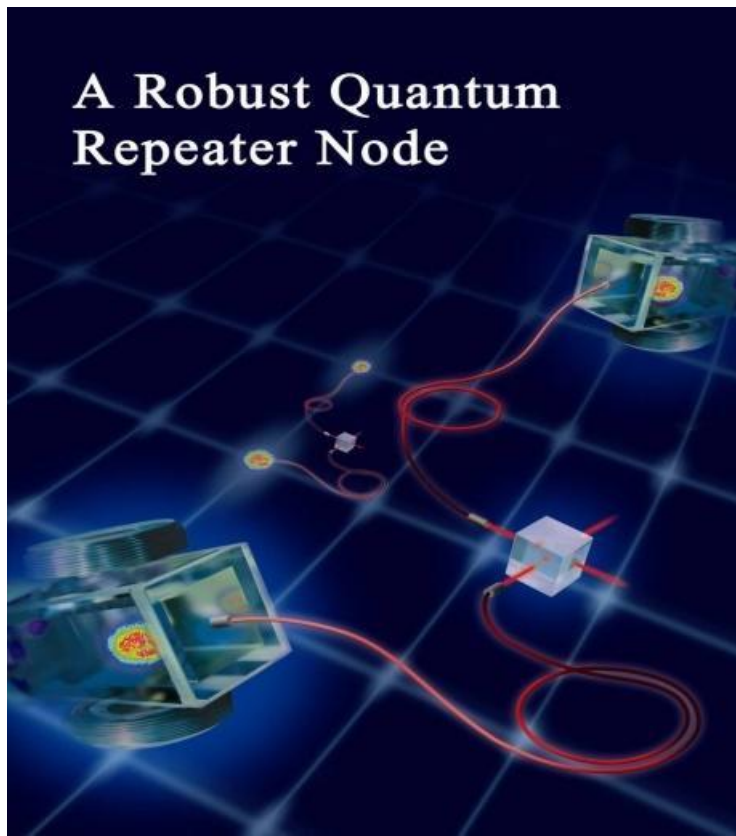
1.China Railways High-speed



In the year of 2005, China and Siemens signed a contract for the CRH3 and technology transfer agreement. Soon afterwards, China introduced over 150 experts from Siemens to guide design and manufacturing of China Railways High-speed in the country. With cooperation between teams of experts from China and Germany, railway vehicles of China finally achieved changes that cost its counterpart three decades to obtain. In 2008, Beijing Tianjin Intercity Railway was put into service, and it only takes half an hour from Beijing to Tianjin, making it the fastest, most environmentally friendly and most comfortable railway with the largest capacity in the world. Michael Vester, the German general coordinator, was honored the Friendship Award of Chinese Government in 2008. CNR Tangshan Railway Vehicle Co., Ltd. participated in manufacturing and provided the “Project of Beijing Tianjin Intercity Railway” of CRH3 which won the first prize of award for progresses in scientific and technological of 2012.

2. Technology of Quantum Communication

A Robust Quantum Repeater Node



The research team on quantum information led by Pan Jianwei from the University of Science and Technology of China, through cooperating with Stanford University, Cambridge University and other world renowned universities and research institutes of Germany, Austria and Switzerland, scored a series of original internationally advanced achievements, and especially took the lead in developing practical technology of quantum communication in the world, winning a place for China in the emerging area of quantum information. The team was once elected as one of the top ten highlights of science and technology by the British journal of *Nature*; elected as one of the major annual international physical progresses by European Physical Society or American Physical Society for five times; and elected as one of the top ten news of progress in science and technology of China by academicians of the Chinese Academy of Sciences and Chinese Academy of Engineering for seven times.

3. Yuegong-1



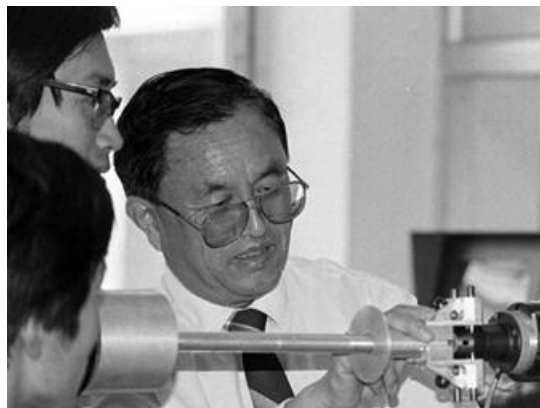
It is the core technology for long-term survival of human beings in outer space and the most advanced bioregenerative life support system in the world. Since the year of 2004, Professor Liu Hong from Beihang University has introduced over 100 foreign experts for digestion, absorption and re-innovation and then for independent innovation to build the bioregenerative space life support system from nothing, and succeeded in developing Yuegong-1 or Moon Palace-1 through the past ten years of endeavors, the first comprehensive experimental equipment of bioregenerative life support base in the space base of China, and the third one of the world, completing a the first tests of China in May 2014, in which volunteers spent 105 days hauled up inside the mini-scale moon base mock-up, cut off from the outside world. It makes our technology the same as technologies of the highest level in the world. The research achievements will provide theoretical and supporting technologies to life support of our future deep space exploration.

4. Internet Technology



On September 14, 1987, experts from China and Germany eliminated the blockade on new techniques after four years of endeavors and sent the first e-mail with its indigenously established e-mail system, making the country officially connected to and registered in the international computer networks. Werner Zorn, a German expert who had won the Friendship Award, made great contributions to this achievement. Thanks to joints efforts of Chinese and American experts, a 64K dedicated circuit to the Stanford Linear Accelerator Center (SLAC) was opened officially. Built by the Institute of High-Energy Physics under CAS, the dedicated circuit was linked to the United States through an international satellite communication channel rented from AT&T. It is the first dedicated circuit of China to be partly linked to Internet, which opened the door to the Internet era in China.

5. "CR-01" Underwater Robot Capable of Diving as Deep as 6,000 Meters



Since 1992, Jiang Xinsong, pioneer of the robot career of China, led his team for cooperation with Russia that was dominated by China to develop wireless and autonomous underwater robot that is capable of diving as deep as 6,000 meters. In August 1995, "CR-01" underwater robot capable of diving 6,000 meters was successfully developed, making China one of the first class countries in terms of technologies of robot. The robot was elected one of the top ten progresses in science and technology of 1997 and won the first prize of award for progresses in scientific and technological of 1998. From March 1999, China continued its cooperation with Russia to jointly develop the manned submersible capable of diving 7,000 meters and mastered key technologies of deep-sea exploration.

6. Technology of Water-Saving Irrigation



Technologies of trickle irrigation and sprinkling irrigation that are introduced from Israel and America have been widely applied in arid regions of China, and American technology of infiltrating irrigation has been spread in northern parts of China including Hebei, Shandong, Henan and Shaanxi, and improves the water-saving efficiency by 50% and increases the production by 30% to 50%.

7. Construction of Daya Bay Nuclear Power Plant



It is the first nuclear power plant of the mainland to use foreign technologies and capital. Launched in 1982 and completed in 1994, the plant started its commercial operation in 1994, and becomes one of the five winners of the “1994 International Nuclear Power Station Prize” elected by POWER-GEN International and the only nuclear power station of China to win the honor. Technologies and equipment are all imported from abroad, and in the initial stage, foreign experts held the post of major positions from director to section chief, and most of positions of engineering and technologies. At that time, there were engineering technicians from 26 countries on the construction site of Daya Bay Nuclear Power Plant and more than 2000 foreign experts at most. To master international advanced technologies, the Chinese side has sent over 100 technicians to go abroad for training.

8. Beijing Electron Positron Collider



In 1988, Beijing Electron Positron Collider (BEPC) succeeded in its first electron-positron collision, known as another major breakthrough in the high-tech field after the atomic bomb and hydrogen bomb exploded and man-made satellite was sent into space. In 1984, China and America jointly launched the project of BEPC, and began the modification works of electron positron collider and its spectrometer in 2004, and finally met the comprehensive goals in 2009. In March 2013, a team of international cooperation constituted by more than 300 scientists from 11 countries announced that BEPC found a new resonant structure, which is likely to open a door to discover and research new hadronstate. Foreign experts such as Tsung-Dao Lee and Samuel Chao Chung Ting played an important role in the process.

9. Rice Dry-Raising and Thin Planting



It is a rice cultivation technique that saves seeds, fertilizers, water and energy and increases production, which boosts the production of each mu (about 0.0667 hectare) by an average of over 10%. And technique was introduced from Japan in the 1980s, and was applied to more than 200 million mu in 1998. Japanese expert Hara Shoichi was invited to pass on the knowledge of rice dry-raising and thin planting for 63 times from 1982 to 2002.

10. Wuhan Yangtze River Bridge



Opened in 1957, Wuhan Yangtze River Bridge ends the history that there was no bridges over the Yangtze River for thousands

of years, making it the main artery of communications between North and South of China and playing an important role in promoting economic development of the North and South. The Bridge is one of the 156 projects that Soviet Union assisted China. And experts in Soviet Union raised various suggestions on design and construction of the Bridge, which finally adopted the most advanced construction method that was developed by expert Konstantin Sergeyeovich Silin and finally achieved great success. Design of the Bridge, an important symbol of construction accomplishments of New China, was elected in the third edition of RMB issued from April 1962, and the Bridge was included in the list of cultural relics under the country's key protection.

Ranking of the “Top Ten Achievements of Talent Introduction for the 65th Anniversary of New China” is based on: far-reaching influence of the achievement on future development of national economy, science and technology and society; and prominent role of cooperation with foreign experts and international intellectuals in the achievement. And the jury is constituted by 34 experts from departments concerned of SAFEA, Office of Talent Introduction of Ministry of Science and Technology, Bureau of International Cooperation of Chinese Academy of Sciences, Bureau of International Cooperation of Chinese Academy of Engineering, Department of International Cooperation of Chinese Academy of Agricultural Sciences, editorial board of *International Talent* magazine and local administration of foreign experts affairs, and Sina and China Daily also launched a network voting during the same time. And the “Top Ten Achievements of Talent Introduction for the 65th Anniversary of New China” would be elected by the poll of experts (weight of 70%) and the online voting (weight of 30%). (Source: SAFEA)