Beijing Normal University

Newsletter

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The Unveiling Ceremony for the Confucius Institute at the University of Macerata (UniMC) Was Held in Italy

Article source: Office of International Exchange & Cooperation | Release date: 2021-06-29

On July 20th, the unveiling ceremony for the Confucius Institute at the University of Macerata (UniMC), Italy was held in Macerata, Italy. It featured more than 100 attendees including guests from China and Italy, local citizens, and media reporters.

Sun Chengyong, Minister-Counselor of the Chinese Embassy in Italy, and Francesco Verducci, Vice-Chairman of the Department of Education, Cultural Heritage and Tourism and Member of the Senate of the Republic of Italy, presided over the ribbon-cutting ceremony and jointly unveiled the Confucius Institute. Afterwards, when distinguished guests visited the new building of the Confucius Institute, they spoke highly of newly built teaching and research facilities including classrooms, meeting rooms, libraries, and living facilities including dormitories and canteen. The speech session featured the speeches of Sun Chengyong, Francesco Verducci, Adornato (UniMC's President) and Lacchè (President of the Confucius Institute); and videos from Zhao Lingshan, Vice Chairman and Secretary-General of Chinese International Education Foundation (CIEF), and Zhou Zuoyu, Vice President of Beijing Normal University (BNU), who congratulated on the formal operation of the Confucius Institute at the UniMC, and expressed the expectation for extensive cooperation between the CIEF, BNU, and the UniMC.

Sun Chengyong, Minister-Counselor of the Chinese Embassy in Italy and Francesco Verducci, Vice-Chairman of the Department of Education, Cultural Heritage and Tourism and Member of the Senate of the Republic of Italy, jointly unveiled the Confucius Institute.

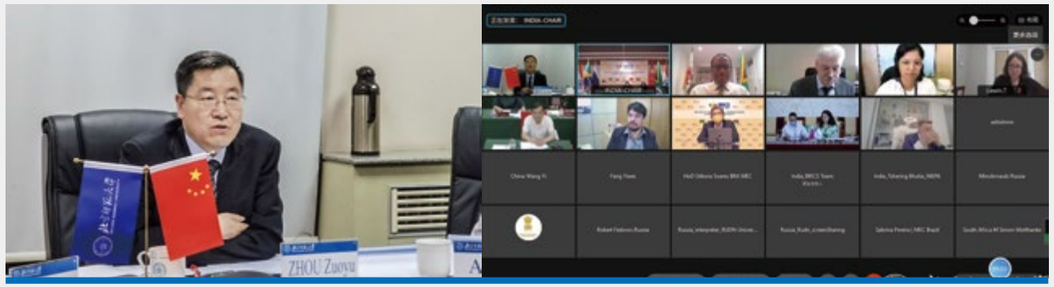
The Confucius Institute at the UniMC was jointly established in 2011 by BNU and the UniMC. Since its establishment, it has actively engaged in Chinese language teaching, Chinese teacher training, as well as academic and cultural exchanges with other entities, and it has gradually developed based on the agreement reached between China and Italy in 2015. This unveiling ceremony marked the formal operation of this 10-year-old institute, which ushered in a new stage of its development. In the future, in addition to better promoting Chinese language teaching and cultural exchanges between China and Italy, the Confucius Institute will actively set foot in local Chinese teacher training across Italy and Europe and academic exchanges between China and Italy, and strive to ensure the success of China-Italy cooperation. It is worth mentioning that this ceremony was held when the COVID-19 pandemic still plagued the world, so it is evident that China and Italy attached considerable importance to the Confucius Institute and harbored eager expectations for further cooperation.

Zhou Zuoyu Attended the Conference of the International Governing Board of BRICS Network University (IGB)

Article source: Office of International Exchange & Cooperation | Release date: 2021-07-01

On June 29th, Zhou Zuoyu, Vice President of Beijing Normal University (BNU), was invited to attend the video conference of the International Governing Board of BRICS Network University (IGB) and speak on behalf of China. It was hosted by India, which held the rotating presidency of BRICS in 2021 and attended by Wang Yi, Director of the Division of International Organizations, International Department, Ministry of Education of China (DIO), Guan Xin, Deputy Director of the DIO, Liu Wenkai, President of the North China University of Water Resources and Electric Power, as well as senior officials of the Ministry of Education and universities from Brazil, Russia, India, and South Africa.

On behalf of China, Zhou Zuoyu proposed amendments to the *Declaration of the International Governing Board of BRICS Network University (Draft) (IGB Declaration)*. He stated: Faced with many challenges posed by the COVID-19 pandemic to mutual exchanges, higher institutions of BRICS countries should fully leverage technological means to devise innovative ways of cooperation, and actively explore and



launch online mutual learning such as cloud-based cooperation. Zhou Zuoyu also proposed amendments to the terms for improving the alliance's conference mechanism for working groups in prioritized areas and dual degree programs under joint training. His proposals were highly recognized by Amit Khare, Chairman of the conference and Secretary of the Ministry of Education of India, as well as representatives of other countries, and the amended Declaration was recognized by all attendees and passed unanimously.

Representatives from member countries briefed on their recent progress in efforts under the framework of the alliance and Liu Wenkai spoke on behalf of China. He stated: Although the world was plagued by severe challenges from the COVID-19 pandemic in the past year, Chinese universities still benefited from cooperation within the framework of the alliance. He also mentioned that BNU forged ahead when faced difficulties and played an effective role in cooperation in scientific research, student exchanges, and think tank construction. Representatives of BRICS countries stated: In the face of the COVID-19 pandemic, they will unite as one, strengthen cooperation in higher education, and create a role model mechanism for mutual learning between higher institutions.

India, which sponsored the conference and held the rotating presidency of the BRICS, stated that it would submit the conclusions of the conferences at the 8th Meeting of BRICS Education Ministers to be held on July 6.

Wu Yujun, Director of the Office of International Exchange and Cooperation (OIEC), Ai Xin, Secretary of the Party Committee of the School of Foreign Languages and Literature and Deputy Director of the OIEC, Wang Lei, Deputy Dean of the School of Government and Director of the BRICS Cooperation Center, Cai Hongbo, Deputy Dean of the BNU Business School, Professor Wu Zhongke of the School of Artificial Intelligence and relevant staffers of the OIEC attended the meeting.

Established at the 7th BRICS Summit in July 2015, BRICS Network University involved 55 universities of BRICS countries, including 11 Chinese universities based on selection and recommendation by each member country's Ministry of Education. As a member, BNU engages in cooperation across four disciplines including BRICS research, economics, computer technology, and information security, as well as ecology and climate change. Since its establishment, BRICS Network University has been committed to pooling the strengths of high-level institutions across BRICS countries, launching joint research and high-end talent training, putting various cooperative projects into extensive practice, as well as continuously promoting cultural exchanges and advancing common development of culture and education among five BRICS countries.

BNU Master of Public Administration (MPA Education Project) Has Passed 5(:7((PU[LYUH[PVUHS JLY[

Article source: School of Government | Release date: 2021-08-12

On August 11th, NASPAA (Network of Schools of Public Policy, Affairs, and Administration) officially announced the international certification results of the Master of Public Administration Program in 2021. The master's degree in Public Administration (MPA education project) of the School of Government of BNU has passed the highest-level certification of seven-year inspection exemption (2021-2028) at one time, becoming the only Chinese University project that has passed the certification this year. So far, six universities in China have passed NASPAA international certification, including Tsinghua University, Renmin University of China, Shanghai University of Finance and Economics, University of International Business and Economics, and Zhejiang University.

NASPAA currently has more than 300 college members in 15 countries and it is the most authoritative certification organization in the field of international public management education. NASPAA certification is the most internationally influential qualification evaluation system, and it focuses on whether the MPA education project is based on a clear training mission, in terms of project objectives, project governance, teacher

team construction, student management, and service, and so on, to ensure the delivery of excellent talents with public value, public management knowledge and ability to the public sector. NASPAA certification not only provides an international standard for continuous improvement for domestic public management training units but also provides an international reference for the needs of public management talents from all walks of life.

The School of Government at BNU has officially started the application for NASPAA international certification in 2017 and established a group working on MPA Education Center. In December 2018, the School of Government officially became a member of NASPAA; From June 2019 to December 2020, the MPA education program of the School of Government passed the qualification examination and self-assessment stage; In March 2021, Professor Jack Meek, former chairman of NASPAA, led the investigation team to conduct a three-day online field investigation. After several rounds of discussion, the feedback report was formed and submitted to NASPAA Certification Review Committee for consideration; In July 2021, the certification review committee decided that the MPA education project of the School of Government passed the NASPAA certification and granted a seven-year certification exemption period.

As the undertaker of the first batch of MPA education projects in China, the School of Government of Beijing Normal University has been forging ahead and has become an influential public management talent training base in China.

Wang Shoujun Hosted the Second “Belt and Road” International Communication Symposium

Article source: Belt and Road School | Release date: 2021-06-16

On the morning of June 12, to further learn and understand the guiding principle of General Secretary Xi Jinping’s important exposition on strengthening international communication on May 31, Wang Shoujun, Vice President of Beijing Normal University (BNU) and Dean of the Belt and Road School, hosted the second “Belt and Road” International Communication Symposium of the Belt and Road School for in-depth discussions on how to cooperate with countries along the Belt and Road line based on requirements of BNU’s Party Secretary Cheng Jianping at the BNU's Seminar on International Communication.

Wang Shoujun stated that General Secretary Xi Jinping is a foresighted leader who elaborated on the importance of strengthening international communication, clearly set forth basic tasks and focus, and clarified what we shall work towards. While the Belt and Road Initiative has become a critical part of China's efforts in international communication in the new era, the United States and other Western countries are trying their utmost to subvert it and distort and smear its intention. Therefore, BNU must put enhanced efforts in learning and research and improve theoretical innovation and international communication based on China's actual needs.

The focus of this symposium is to explore how to promote the common development of China and the world, especially the development of China’s global trade, through joint construction along the Belt and Road line, as well as how to minimize the harmful impact of the trade war launched by the United States on China and “Belt and Road” countries. Hu Biliang, Executive Dean of the Belt and Road School, Distinguished Professor Pan Qingzhong, Research Fellow Wan Zhe, experts and scholars from relevant departments and relevant research institutions in cooperation with the Belt and Road School, young teachers and some students attended the seminar and shared their opinions.

Everyone said that events like the "Belt and Road" Seminar on International Communication were conducive to better grasping the guiding principle of Xi Jinping’s important exposition on strengthening international communication, facilitating discussions on major issues related to Belt and Road Initiative, promoting theoretical research on the Belt and Road Initiative and improving BNU's and even China's international communication level.

teachers and students at home and abroad. 167 application forms from more than 50 secondary schools across China and Russia were received, and more than 600 teachers and students participated in it.

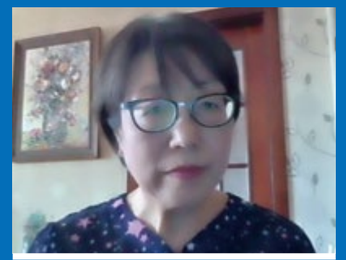
In his speech, Zhou Zuoyu extended sincere greetings and best wishes to organizers as well as teachers and students and recognized a series of activities carried out to strengthen Sino-Russian cooperation and facilitate Sino-Russian cultural exchanges since the establishment of the DCRTD. He stated that BNU currently enabled prosperous development of Russian studies in China by establishing two centers (the DCRTD and the BNU Russian Studies Center), launching a journal (*Russian Literature and Art*), and developing a union (Association of Sino-Russian Educational Universities;). He also hoped that the DCRTD would dedicate stronger efforts to cultivating talents for Sino-Russian exchanges and upgrading the comprehensive strategic partnership between China and Russia.

In her speech, Kortava affirmed various activities organized by the DCRTD since its establishment and paid tribute to Professor Liu Juan for her massive efforts. She emphasized that this year marks the 100th anniversary of the founding of the Communist Party of China, and the great success of this event is undoubtedly a tribute to it. In 2022, BNU will celebrate its 120th anniversary, and Kortava cast an outlook on a series of possible teaching and research activities for the two universities to celebrate this event and the future orientation of the DCRTD.

Liu Juan, Chinese Director of the DCRTD and Director of

the BNU Russian Studies Center, read out the congratulatory letter from Ambassador Denisov who acclaimed that the "Liyun Cup" Teacher Skill Competition and "Inheritance Cup" Singing Competition is another vivid chapter of bilateral cooperation between China and Russia in education. Russian studies in China are a history of success written by more than 1,600 Russian teachers in elementary and secondary school teachers and college teachers. Ambassador Denisov extended his gratitude to the organizers for their consistent dedication to the high-level development of the Russian language in China, as well as sincere greetings and blessings to the participants of this competition.

There were 43 winning teams and individuals from 25 secondary schools in this competition. After the list of winners was announced, representatives of teachers and students from Jinan Foreign Language School and Changchun Foreign Language School made their speeches, which impressed the guests and other contestants attending the ceremony. In the presentation of the winners of the Teaching Skills Competition, Xu Yanyu and Zou Ning, both teachers from Jinan Foreign Language School, and Yu Houchun, a teacher from Chongqing Experimental Foreign Language School delivered



speeches and shared their lessons learned from teaching practices and teaching skills. The ceremony culminated with an online concert, and the audience was deeply moved by classic Chinese and Russian songs including *Midnight in the Moscow, Hawthorn Tree*, and *The Cloud of Hometown* sung by Chinese and Russian secondary school students.

Chinese and Russian directors of the DCRTD made their respective closing speeches. Professor Liu Juan expressed his heartfelt gratitude to members of the DCRTD and all the contestants in this competition. She said: At the key juncture of the 100th of the founding of the Communist Party of China and the 20th anniversary of the *Treaty of Good-Neighborliness and Friendly Cooperation between the People's Republic of China and the Russian Federation*, it is important to hold the "Liyun Cup" & "Inheritance Cup." All participants in these two competitions have made positive contributions to deepening Sino-Russian cooperation in the humanities. Russian Director Ûù þ Ûù ý ðù stated: All teachers of the "Liyun Cup" have showcased outstanding professional skills and teaching abilities, and a variety of activities held after the establishment of the DCRTD have undoubtedly strengthened the friendship between Russian teachers in China and Russia. In the future, the DCRTD will organize more beneficial activities to continuously boost Sino-Russian cooperation in education. Feng Yafei, Director of the Office of Russian Language Teaching of Heilongjiang Teacher Development College, stated: Secondary school teachers and students have many lessons learned and ideas inspired in this competition. During the competition, teachers shared lessons learned in teaching with each other, acquired new teaching skills, and consolidated their teaching abilities. I hope that, in the future, the DCRTD can hold more activities that are beneficial to the development of Russian language teaching in China and promote further cultural exchanges between BNU and MSU.

This event was reported by Haiwai Net on June 21.
Link:
https://m.haiwainet.cn/middle/3541089/2021/0621/content_32136767_1.html

The Council of the Confucius Institute at the UoM Held a Video Conference

Article source: Office of International Exchange & Cooperation | Release date: 2021-06-21

On June 17th, Beijing Normal University (BNU) and the University of Manchester (UoM) jointly held a video conference for the Council of the Confucius Institute at the UoM. Attendees included BNU's Vice President Zhou Zuoyu, UoM's Vice President Keith Brown, Alessandro Schiesaro, Dean of the School of Arts, Languages and Cultures (UoM), Richard Cotton, Director of the Global Development Department (UoM), Deljana Iossifova, UK Director of the Confucius Institute, Karen Wang, UK Deputy Director of the Confucius Institute, Wang Xuesong, Secretary of the Party Committee of Chinese Language & Culture College (BNU), Zhang Hui, Chinese Director of the Confucius Institute, and Xiao Kai, Director of the Management Center of the Confucius Institute.

Zhou Zuoyu introduced the concepts and principles of BNU's "Strategic Plan for Global Development," reviewed the achievements made by the Confucius Institute at the UoM in Chinese language teaching, textbook development, and cultural dissemination since its establishment. He stated: BNU will continue to leverage its superior resources to support projects of the Confucius Institute at the UoM and ensure its continuous and stable operation. Keith Brown expressed his gratitude to BNU for its support to the Confucius Institute at the UoM. He affirmed the crucial role of the Confucius Institute in building a platform for BNU-UoM cooperation and promoting cooperation in discipline construction and teacher and student exchanges between the two universities and indicated that the UoM will fully support the development of the Confucius Institute and work to upgrade bilateral cooperation.

The two universities also discussed the signing of a new cooperation agreement, the Confucius Institute's financial accounts for 2020 and financial budget for 2021, as well as the future development of the Confucius Institute and extensive cooperation in other fields such as joint research and training programs.

Since the joint establishment of the Confucius Institute in 2006, BNU and the UoM have established a close partnership. With the joint efforts of both sides, the Confucius Institute has burgeoned and become a strong connection that maintains all-around cooperation and plays a crucial role in promoting cooperation in scientific research and teacher and student exchanges between the two universities. In 2016, the Confucius Institute at the UoM was awarded the title of "Role Model Confucius Institute."

Article source: Office of International Exchange & Cooperation Author: Office of International Exchange & Cooperation

ANSO Online Open Conference &

The Third International Science Forum on the Belt and Road Initiative

Session 4

Fundamental Science & Higher Education

Systems Science, the Chinese Academy of Sciences, Professor Balázs Gulyás, President's Chair of Translational Neuroscience at the Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, and former Chairman of the Biomedical Research Council (Singapore), Sir George Radda, Emeritus Professor of Molecular Cardiology at the University of Oxford, Professor Csaba Pléh, Co-Chair for Methodology of Science Education at the Academia Europaea Budapest Knowledge Hub, Professor Alejandro Jofré, Provost at the University of Chile, Professor Anwar-ul-Hassan Gilani, Vice-Chancellor of the University of Haripur, former Chairman of the Pakistan Science and Technology Commission, and a member of the Pakistan Council for Science and Technology, and Bao Yungang, a research fellow and Deputy Director of the Institute of Computing Technology of the Chinese Academy of Sciences. It was co-chaired by Professor Mohammad Qasim Jan, Vice President at ANSO and former President of the Pakistan Academy of Sciences, and Cao Jinghua, Executive Director of the Secretariat at ANSO.

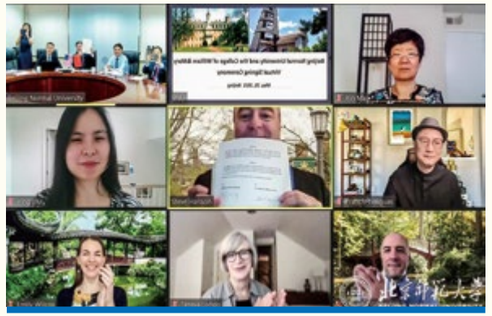
ANSO was co-sponsored by the Chinese Academy of Sciences, the Russian Academy of Sciences, UNESCO, among other organizations. Formally established in November 2018, it involves an array of universities and scientific research institutions from countries along the "Belt and Road" line, including BNU.

BNU and W&M Held a Video Conference for the Signing of the Memorandum of Cooperation and Negotiation

Article source: Faculty of Geographical Science and Office of International Exchange & Cooperation | Release date: 2021-05-27

On May 25th, Beijing Normal University (BNU) and the College of William & Mary (W&M) held a video conference for the signing of the memorandum of cooperation and negotiation. It featured the following attendees: BNU's Vice President Zhou Zuoyu, Steven Hansen, W&M's Vice Provost for Academic and International Affairs, Teresa Longo, W&M's Executive Director of the Reves Center for International Studies, Mike Hill, W&M's Director of Chinese Studies, Francis Tanglau Argus, W&M's Director of the Global Studies, Liu Ying, Director of W&M's program in Chinese Studies, Emily Wilcox, W&M's Professor of Chinese Studies, Miao Xingwei, the Dean of the School of Foreign Languages and Literature of BNU, Xiao Kai, Director of the Management Center of the Confucius Institute, and Wang Deliang, former Chinese Director of W&M's Confucius Institute.

Zhou Zuoyu delivered a welcome speech on behalf of the BNU and reviewed the cooperation between the two sides in student exchanges and the development of Chinese language programs. His speech was followed by the speech of Stephen Hansen, who expressed satisfaction with existing cooperation between the two universities, and once again thanked BNU for receiving W&M's Chinese students during the COVID-19 pandemic. Both sides highly affirmed the completed summer and winter students exchange programs and discussed how to further operate them together with explore new areas of cooperation. They also stated that they would actively promote the implementation of the dual-degree program on international Chinese language education and W & M's cooperation with the School of Foreign Languages and Literature of BNU in journal publication to promote further academic internationalization of both sides. In addition, W & M also introduced a series of activities to commemorate the 100th anniversary of its enrollment of the first Asian student (Chinese student). Zhou Zuoyu highly affirmed that W & M attaches considerable importance to Chinese students and stated that the long history of cultural exchanges will facilitate friendly cooperation between BNU and W & M in the future.



Zhou Zuoyu and Stephen Hansen signed the framework cooperation agreement on behalf of W & M.

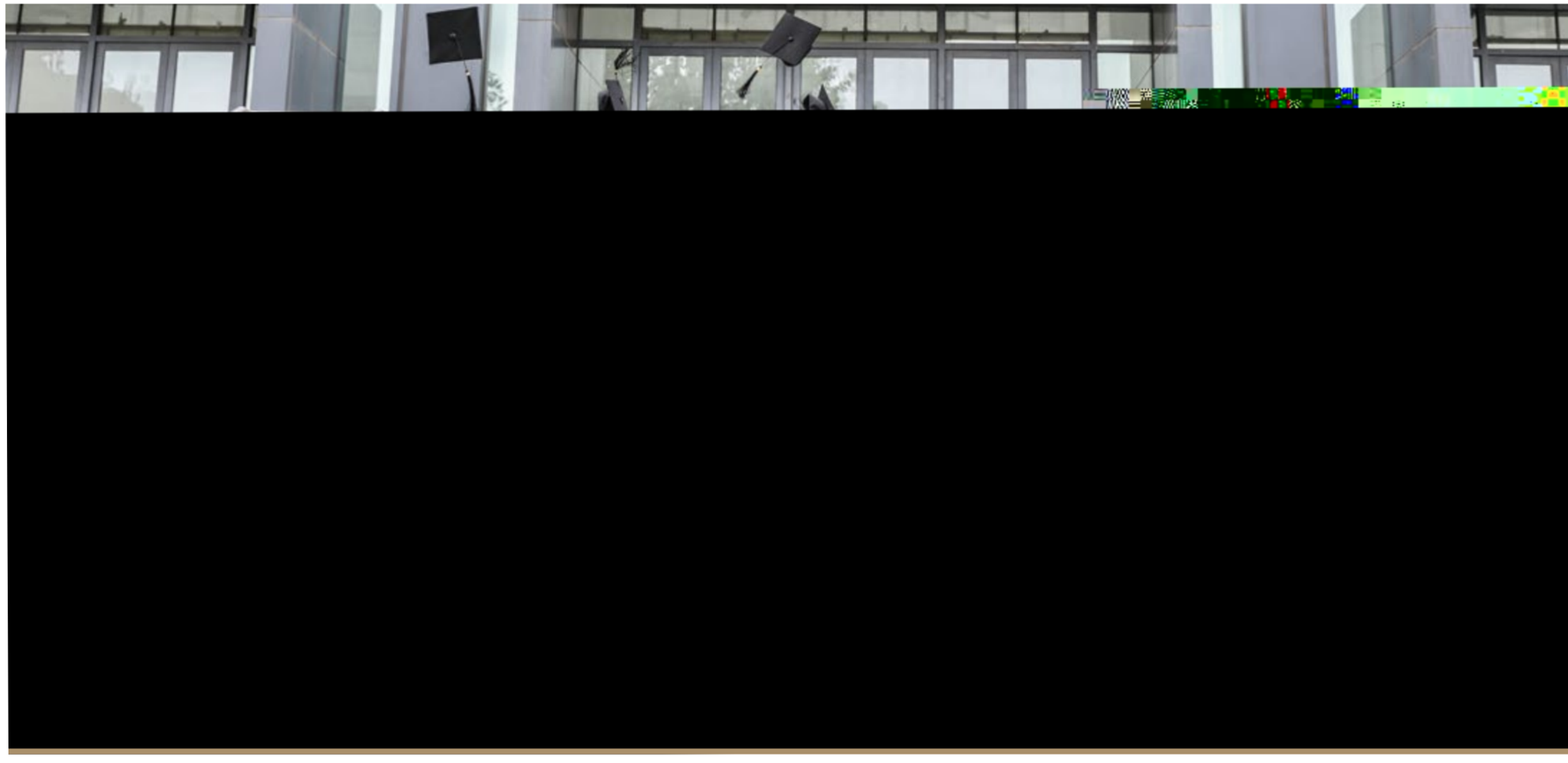
W & M is one of the "public ivies" in the United States and was ranked 40th in the U.S. News 2020 rankings of America's best colleges. In 2012, W & M and BNU jointly established the Confucius Institute.

Article source: Department of Student Affairs | Release date: 2021-07-14

On the morning of July 11th, the Conferral of Degrees for the 2020 Graduates was held at Qiu Jiduan Sports Centre. University leaders jointly awarded degrees to more than 1,700 graduates of the class 2020.

Last year, most graduates were unable to return to BNU and participate in the conferral ceremony due to the pandemic. In the online commencement last year, students from different places expressed their deep affection for their Alma Mater. Chairman of the University Council Cheng Jianping and President Dong Qi sent sincere wishes to the graduates through videos, urging the students to "move forward, live up to the youth, and strive to grow into a new generation for the national rejuvenation." They invited everyone to return to BNU in the future, and once again wear a Graduation Gown, take graduate photos and participate in the conferral of degrees.

This year, BNU decided to make up the conferral for the 2020 graduates. Those who are unable to participate can return to BNU



BNU Held Commencement Ceremony 2021

Article source: Department of Student Affairs | Release date: 2021-07-13

On the morning of June 27, Beijing Normal University held a commencement ceremony in 2021. The class of 2021 had More than 6,000 graduates attend the ceremony together. It was held in the east playground of the university and was broadcast live on People's Daily, Guangming Daily, and other 12 online platforms.

Dong Qi congratulated the graduation of the Class of 2021 and expressed his gratitude to all the faculty members and parents of the graduates. He encouraged the graduates of the Class of 2021 to always keep the initiative of life choices in their own hands; to be down-to-earth and realistic, and always keep the initiative of opportunities in their own hands; to grow and succeed in overcoming difficulties and setbacks; to be brave in exploration and innovation to the society and future.

Duan Anqing, a representative of undergraduate graduates of 2017 of College of Life Sciences, shared his thoughts and practice on how to become an excellent teacher, expressing his firm belief in devoting himself to the basic education in his hometown and to be a good teacher in the place where needs him most.

Yin Jinxiu, a representative of graduate students of 2018 of the Faculty of Psychology, shared her experience of serving society with her knowledge of psychology, especially carrying out psychological assistance during the Covid-19 pandemic, which demonstrated the responsibility of BNU students

Zhang Qi, a representative of the faculty, professor at the School of Economics and Resource Management, called on the students of BNU to be youths with strength, sharpness, and ambition, to train in taking responsibility, to grow in doing their duty, and to strive to be youths of the new era.

The ceremony was successfully concluded with all the teachers and students singing the university song. After the ceremony, the university leaders and members of the degree evaluation committee attended the degree awarding ceremony. In 2021 BNU awarded 619 students with doctoral degrees, 3825 students with master's degrees, and 2503 students with bachelor's degrees.

The graduation ceremony started in a joyful Flash Mob. Graduates who were selected as "Four Good Teachers", employed in the west and community, as well as those who won the honor of excellent graduates at Beijing and university level were honored at the graduation ceremony.

Zhang Tingfang and Ciwang Junmei: The Story of Great Love

Article source: Guangming Daily | Release date: 2021-08-05

The train was galloping at the edge of the sky. After it crossed over the Tanggula Mountains, the altitude gradually decreased, and a vast area of grassland came into view—it arrived in Tibet!

In September 2020, at the invitation of National Treasure, a TV program aired on CCTV, Zhang Tingfang returned to Tibet at the age of 74. The familiar scenery outside the window—which she hadn't seen for years—reminded her of many things that happened in the past and made tears well up in her eyes.

More than 40 years ago, Zhang Tingfang and Ciwang Junmei came to Tibet and prepared for the establishment of Tibet University against all kinds of difficulties. He was the first president, and she once served as the vice president. However, now it has been almost six years since he passed away.

In the car, someone asked Zhang Tingfang: "Why do you travel so far to Tibet?" She answered immediately, "It is because of love!"

What kind of love is it that makes Zhang Tingfang so attached to Tibet? On the 70th anniversary of the peaceful liberation of Tibet, I walked into her apartment in Beijing.

The woman I saw had white hair and bright eyes. When she talked about Ciwang Junmei, she was full of affection, “At our college years, my husband was tall and able to speak fluent Mandarin, sing, dance, and play dulcimer and erhu."

In 1965, Zhang Tingfang, a girl from Beijing, and Ciwang Junmei, a Tibetan lad, were both admitted to Beijing Normal University. She was in the Chinese Department, while he was in the Education Department. In the school publicity team, they often rehearsed together for a performance at factories and villages, chatted about hobbies, life, and ideals, and look forward to the future. These two young people were like-minded and gradually fell for each other.

Sweet life came to a sudden stop when they graduated. Since Ciwang Junmei, who was the first Tibetan undergraduate enrolled at Beijing Normal University, wanted to go home as a teacher, Zhang Tingfang was in a dilemma: go to Tibet or stay in Beijing? She loved Ciwang Junmei and wanted to go to Tibet, "If he doesn't return to Tibet because of PH KLV 7LEHWDQ ÂXHWQ ldO QexC?HTheLQeed But there were thousands of miles between Beijing and Lhasa, and it took more than ten days to travel between these two places. Worse still, her mother was sick all year-round, and her younger brother was still a child. If she was gone, who would take care of the whole family?

At the crossroads of life, Zhang Tingfang hesitated. She decided to have a heart-to-heart with her father.

Her father had been a Party member for many years and supported her to go to Tibet, where she was most needed, for the pursuit of her ideals. To this end, he also talked with other family members and won their agreements.

In December 1971, Zhang Tingfang and Ciwang Junmei held a wedding in a classroom of Beijing Normal University. Amid the wedding bliss, they waited for the employment plan for graduates while planning their upcoming trip to Tibet.

However, the result was unexpected——Tibet was not a destination in the plan!

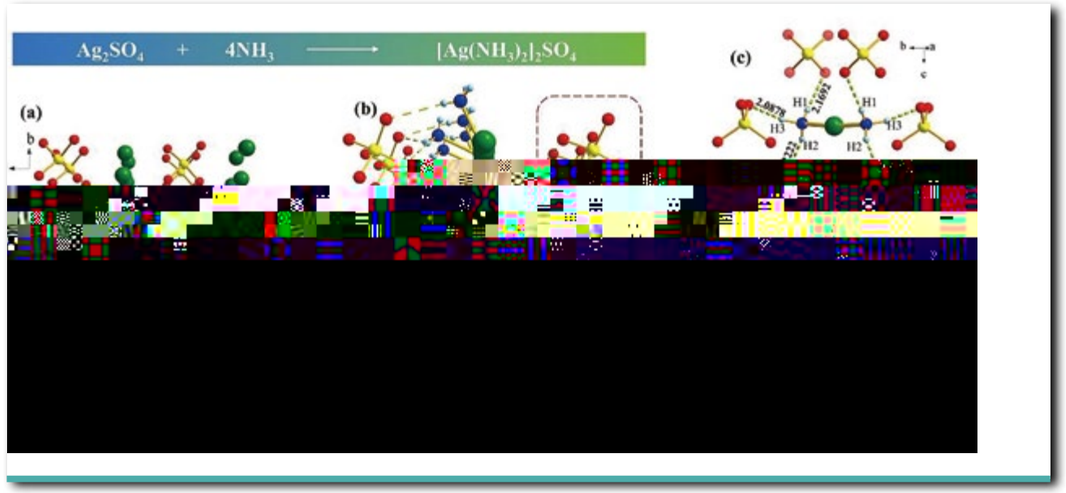
What to do next? The Land needed them more than any other place and was most suitable for Ciwang Junmei. So, they applied that they wanted to go to Tibet.

Their wishes come true. In the summer of 1972, they finally got on the train to Tibet." I don't know what is waiting for me, but as long as the two of us stand together, WKHUH ZLOO EH QR GLòLFXOW cannot overcome." Zhang Tingfang was never subdued.

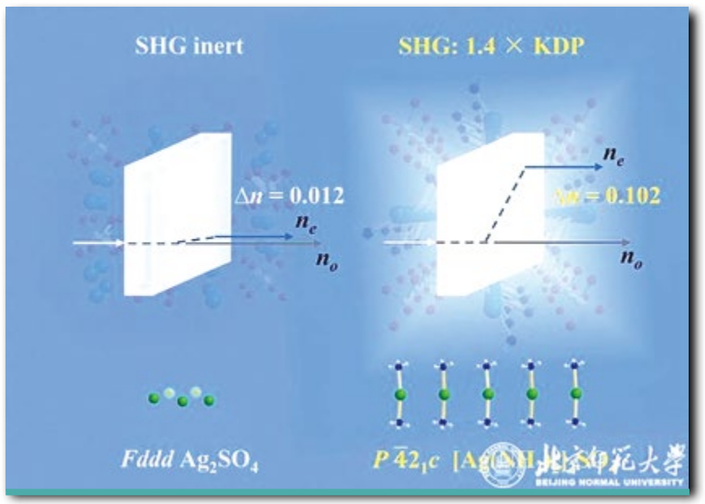
"During these sleepless nights on the train to the west / I have listened, watched and thought for a long time /I can't, I can't hold back the tears in my eyes / How can I, how can I soothe my beating heart!" In the 1960s, The Window of the Train 528 47.553 Td [o2000io a

The Research Team of Professor Wu Liming and Professor Chen Ling from the College of Chemistry, Beijing Normal University Published Important Research Findings

Article source: College of Chemistry | Release date: 2021-07-22



As the key components of all solid state lasers, nonlinear optics (NLO) crystals have a wide range of applications in the fields from precision manufacturing, to information processing, and medical treatment. High-performance visible and UV NLO crystals require a high coefficient of the second harmonic generation (SHG), a large bandgap (Eg), high birefringence (Δn), and physical and chemical stability. To ensure a large bandgap, visible and UV NLO crystals are usually ionic compounds. Since the SHG and Δn of most NLO materials are mainly contributed by anions, Chen Chuangtian proposed the anionic group theory for NLO materials. Under this guidance, scientists designed and synthesized a large number of NLOs with superb performance, such as KBe2BO3F2 (KBBF), β-BaB2O4 (BBO), LiB3O5 (LBO) which have been put into application. Therefore, the design of NLO materials at present mainly focuses on anions, and the structural modification of cations and the regulation of NLO-related performance have long been overlooked.



Recently, the research team of Professor Wu Liming and Professor Chen Ling of the College of Chemistry proposed a strategy for cation coordination to improve the nonlinear and linear optical properties of materials. They introduced the neutral ligand NH3 to coordinate Ag+, driving the transition of the structure of Ag2SO4 from the centrosymmetric space group Fddd to the non-centrosymmetric tetragonal structure P21c. This turns the system from nonlinear optically inactive to active. Moreover, compared with Ag2SO4 (Δncal = 0.012 @ 1064 nm), [Ag(NH3)2]2SO4 shows a significant increase in birefringence (Δnexp = 0.08 @589.3 nm, calculated value Δncal. = 0.102 @ 1064 nm). Theoretical studies have proved that the high birefringence of [Ag(NH3)2]2SO4 is mainly derived from the cationic substructure after coordination. Since the two ligands of [Ag(NH3)2]+ shape an angle along the c-axis (N-Ag-N), this makes the cationic substructure produce a dipole with a moment of 0.12D along the c-axis, and the dipole's moment on plane ab is zero. Moreover, since the dipole can interact with electromagnetic waves generated by oscillations in incident light, the motion of the electromagnetic wave is retarded in the c-axis, resulting in high birefringence and optical anisotropy. In addition, [Ag(NH3)2]2SO4 shows high phase-matched SHG intensity(1.4 × KDP @1064 nm). A DFT calculation shows that the SHG response of [Ag(NH3)2]2SO4 is contributed by both the cation [Ag(NH3)2]+ and the anion SO42-. The above findings indicate that cations in this material have a major contribution to NLO-related properties. Therefore, the modification strategy for cation coordination proposed in this report will inspire a new approach to design NLO materials and improve their performance.

The paper for this research project was recently accepted by the German journal, Angewandte Chemie International Edition DOI: 10.1002/anie.202107780 and 10.1002/ange.202107780.

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