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慧学习与开放教育资源国际高端论坛

Smart Learning and Open Educational Resource (OER) Forum

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Summer 2017



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Summer 2017

Important Events **12-13**



- Culture and Education High-end Forum was Held in Xi'an Guided by The Belt and Road Initiative
- Smart Learning and OER International High-end Seminar was Held in Shenyang
- Basic Education Informatization Research Forum was Held in SLIBNU
- Internet Education Intelligent Technology and Application National Engineering Laboratory Assessment Consultation was Held in SLIBNU
- The 4th International Seminar on "Education and Global Cities: World University Smart Learning" was Held in St. Petersburg, Russia





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Gerald A. Knezek	Ronghuai Huang
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Beijing Normal University Tenured Professor -Kekang He



Culture and Education High-end Forum was Held in Xi'an Guided by The Belt and Road Initiative

Introduction

On April 22, Culture and Education Highend Forum Guided by The Belt and Road Initiative hosted by Beijing Normal University and Shaanxi Normal University and jointly organized by the Institute and School of Journalism and Communication of Shaanxi Normal University and the Virtual Reality Applied Engineering Research Center under the Ministry of Education was held in Shaanxi Normal University. The Belt and Road Think Tank Cooperation Union Council has provided support and guidance for the forum. Academicians from Chinese Academy of Engineering Hushur Islam and Jianping Wu, Deputy Secretary-General of The Belt and Road Think Tank Cooperation Union Council Yongquan Xu, Secretary of Shaanxi Provincial Higher Education Work Committee Xiaolong Dong, Vice President of Beijing Normal University Zuoyu Zhou, Party Secretary of Shaanxi Normal University Hui Gan, and Principal of Shaanxi Normal University Cheng Guangxu attended this forum.



The achievements of The Belt and Road educational development research were released







Dean Ronghuai Huang, with other team members of the project, on behalf of the China Education and Social Development Research Institute's The Belt and Road Research Group under the Beijing Normal University, has released three reports and one database.

At the same time, The Belt and Road OER International Community was formally established with 20 institutions joined so far. Representatives from many institutions attended and shared their results of developing OERs.



At a Glance: Education Development in The Belt and Road Countries

equality and educational informationization.



ICT in Education in The Belt and Road Initiative Countries

Through the analysis of ICT in education in The Belt and Road Initiative countries, this paper aims to provide a strong support for ICT in education in The Belt and Road Initiative countries.



A Global Review on Development of Open Educational Resources

By study of the origin, development and current situation of OERs, it analyses the research trends and hot spots. It aims at providing some constructive suggestions and enlightenment for the development of OER under The Belt and Road Initiative.



Road countries.

It covers data and case studies in the seven fields, including child care and education, primary education, secondary education, youth and adult literacy, teachers team construction, gender

The Belt and Road Educational Research Database

It covers national educational development, educational hotspots, educational informatization and OERs, etc. It will provide convenient data query and analysis for the users who concern about the current situation of national education in The Belt and

More than 30 Domestic and Overseas Special Guests Joined the Discussion of Culture and Education Development Guided by The Belt and Road Initiative



Hushur Islam (Academician of Chinese Academy of Engineering) :

Four major issues stand out in the building of Silk Road culture: the protection of cultural heritage, the inheritance of culture and the cultivation of talents, the transmission of national culture, and the innovation of silk culture. The forum aims to actively engage in the building of The Belt and Road, to make efforts to promote culture and education undertakings, and to make due contributions down the road. Silk Road has something to do not only with economic growth, but also with cultural prosperity.

Summary of Academician Hushur Islam's Speech on April 22, 2017

Jianping Wu (Academician of Chinese Academy

Countries along The Belt and Road need to give priority

to the construction of advanced academic network for scientific research and educational use, speed up the construction of Xi'an-Lanzhou-Urumqi information infrastructure, and launch information-based advanced

cultural and educational cooperation projects and The

Belt and Road national academic network of cooperation

Summary of Deputy Director Yongquan Xu's Speech on

April 22, 2017

projects for countries along the route as soon as possible.

of Engineering):



Yongquan Xu (Deputy Secretary-General of The Belt and Road Think Tank Cooperation Union Council) :

Culture and education serve as not only important contents in the building of The Belt and Road, but also essentials for its soft environment. Taking its own academic advantages into consideration, Beijing Normal University seeks to coordinate and promote the areas of culture and education and has achieved fruitful results.

Xiaolong Dong (Secretary of Shaanxi Provincial Higher Education Work Committee) Xiaolong Dong:

With The Belt and Road Initiative as the guiding line in its international exchange work, Beijing Normal University has established the national think tank "China Education and Social Development Institute under Beijing Normal University" and set up The Belt and Road National Education Development and Research Group, breeding a series of outstanding results.



Zuoyu Zhou (Vice President of Beijing Normal University) :

With The Belt and Road Initiative as the guiding line in its international exchange work, Beijing Normal University has established the national think tank "China Education and Social Development Institute under Beijing Normal University" and set up The Belt and Road National Education Development and Research Group, breeding a series of outstanding results.

Wisdom & Learning

Summer 2017

More than 30 Domestic and Overseas Invited Special Guests Participated

A number of industry experts participate in the session and make theme reports, attracting more than 500 domestic and overseas representatives.

- > Hui Gan: Develop the advantage of culture education and promote The Belt and Road Initiative
- Dianping Wu: The next generation of Internet advocates The Belt and Road culture education development
- Mingguan Zhou: The university mission under The Belt and Road Initiative cultural engineering and talent cultivation
- Shouqian Sun: Innovational design and maritime silk road
- C Zhigeng Pan: Virtual reality and digital cultural heritage
- Vergiglio manzano: Construction of the Philippine education system



Vergillio Manzano, University of the Philippines



Mingquan Zhou, Beijing Normal University



Shouqian Sun, Zhejiang University



Zhigeng Pan, Hangzhou Normal University

Shaanxi Normal University has Released The Belt and Road Think Tank Integration and Launched the Building of The Belt and Road Culture and Education Promotion Brainport

Ruiving Ma, director of the Department of Social Sciences, presided over the release ceremony of The Belt and Road Think Tank Integration Silk Road Tongjian. The Think Tank Integration focused on major practical problems and strategic issues of The Belt and Road and elaborated major theoretical and practical issues from different angles, aiming to provide all-front, all-sight and systematic intellectual support for the national strategy.

Vice President Zupei Yang presided over the start ceremony of the "Brainport" initiative. Guided by the principle of in-depth integration of culture, education and digital communication technology, the "Brainport" initiative coordinates the government resources, industrial operation and management, scientific research achievements and personnel training with the mode of "government-industry-academia-research" integration, so as to create cultural protection and transmission, education modernization, cultural and educational communication and personnel training and cultural and educational exchanges and cooperation in the new heights.

In addition, the Party Secretary, Hui Gan, presented the theme report of Facilitating the The Belt and Road Initiative by Taking cultural and educational advantages. Professor Zhen Li presented the theme report of the Communication Strategy for the Building of the Silk Road Culture Community.





Hui Gan, Secretary of the Party Committee



The Belt and Road Think Tank Integration Release Event

Ruiying Ma, Director of the Department of Social Sciences



Zupei Yang, Vice President of Shaanxi Normal University



Zhen Li, Professor at Shaanxi Normal University



The Belt and Road Culture and Education Promotion Brainport was Launched

More than 20 Domestic and Overseas Experts and Scholars Share Smart Learning and OERs

construction of OERs.

Keynote Speech:

Xiaoju Hou: The practice of open resource construction in vocational education

Forums:

Information technology and vocational training in smart learning environment" session

The international union of open education resources" session



Bojan Lalic, Head of Department of Industrial Engineering and Management at the University of Novi, Serbia



2017年5月25日·沈阳 MAY 25, 2017, SHENYANG



Information Technology and Vocational Training in Smart Learning Environment Forum

Smart Learning and OER

International High-end Seminar was Held in Shenyang

Introduction

On May 24-27, the 49th national higher education equipment exhibition meeting was held in Shenyang. SLIBNU was invited to organzie "Smart Learning and OER International Seminar." Guoliang Chen, Member of Academy of Science, Kai Kang, Secretary of Chinese Higher Education Society, Xiaomei Wang, Vice Secretary and some experts and scholars from Poland, Hungary, Slovakia, Croatia and Serbia were present. The meeting focused on smart learning environment and OER construction and released The 2016 Chinese Smart Learning Environment White Paper.



Guoliang Chen: Internet has provided the opportunity of win-win cooperation and shared development



Guoliang Chen, Academician of Chinese academy of sciences

The Internet is not only a great technological invention, but also provides a great spiritual power for human beings, which refers to winwin cooperation and shared development. The "Internet +" mode breaks the monopoly of authority on knowledge and lets education go open. Everyone can create, share knowledge, access and use. The international OER movement has set off a new round of learning revolution in the field of education in China. Therefore, we should further strengthen the awareness of the Internet and OER, speed up the development of online education, promote the diversification of learning style as well as focus on building teaching ecological system to adapt to the social development and the domestic education mechanism.

Summary of Academician Jianping Wu's Report on April 22, 2017

Three keynote speeches, two forums and a special seminar were delivered regarding the smart learning environment and

- D Jianhua Zhao: The advanced education resource innovation orientated by norms and applications
- Bojan Lalic: China-Europe OER sharing and construction mechanism under the framework of industry 4.0



OER International Community Forum





OER International Community Construction Seminar

White Paper: Smart Learning Environments in China 2016 was Released

During the conference, Dean Ronghuai Huang and members of the project team released White Paper: Smart Learning Environments in China 2016. This is a research achievement made by 24 project members and 30 experts working for more than a year. 10 key points are put forward, involving comprehensive learning, school education, family education, community education, rural compulsory education and many other aspects.





Ronghuai Huang, Dean of SLIBNU



Yanli Jiao, Senior Project Director of SLIBNU



Shuping Wu, Assistant Researcher at the National Open University

Basic Education Informatization Research Forum was Held in SLIBNU

On April 21st, Zhiwen Zhu, the Deputy Minister of Education, went to Beijing Normal University to conduct an informatization research on basic education. Qi Dong, Li Chen, Vice Presidents of Beijing Normal University, Xudong Zhu, Shengguan Yu, Minister and Vice Minister of Faculty of Education, Ronghuai Huang, Dean of SLIBNU attended the research forum and introduced the Internet education and intelligent technology and achievements of the national engineering laboratory and SLIBNU.

Vice Minister Zhiwen Zhu made an in-depth understanding of the 101 education PPT, and said that his primary concern was how information technology can help the country to solve the problem of education balance and quality. Under the Internet environment, teachers and schools needed to change their functions and the promotion of 101 education PPT required qualified teachers firstly.





Deputy Minister of Education Zhiwen Zhu



Conference Site

Summer 2017

National Engineering Lab for Cyberlearning Intelligent Technology

Its Assessment Consultation was Held in SLIBNU

On April 7th, the project fund application report evaluation consultation of National Engineering Lab for Cyberlearning Intelligent Technology was held in SLIBNU. Jianping Cheng, Party Secretary of BNU, Li Chen and Fanghua Hao, Vice Presidents of BNU, Jun Yuan, Director of High Technology Division of National Development and Reform Commission and other 30 experts attended the conference. National Engineering Lab for Cyberlearning Intelligent Technology is organized by Beijing Normal University and jointly constructed by Tsinghua University, China Mobile Communications Corporation, Elernity and IFLYTEK CO.,LTD.



Conference site



Conference Site



Leaders



Achievements Evaluation

The 4th International Seminar on "Education and **Global Cities: World University Smart Learning**" was Held in St. Petersburg, Russia

During May 19th~20th, the fourth International Seminar on "Education and Global Cities: World University Smart Learning" hosted by Beijing Normal University and Russian Higher Economic University was held in St. Petersburg, Russia. Dean Ronghuai Huang attended the meeting with BNU delegation, the members of which included Fati Wu, Dean of Education and Technology Institute of Beijing Normal University, Associate Professor Qinhua Zheng, Jingjing Zhang and so on.

The seminar focused on online education, learning analysis, big data and smart learning. Dean Ronghuai Huang and associate professor Qinhua Zheng made keynote speeches. Dean Fati Wu and associate professor Jingjing Zhang hosted a theme forum, shared their experience in China and led the problem discussion. Everyone looked forward to explore education issues from a wider perspective "smart city" next year.

Commissioned by the University, Dean Ronghuai Huang led BNU delegation to discuss with Russian Higher Economic University on cooperation matters of the two Universities to promote cooperative projects under the framework of the BRICS University Union.



Report on-Site

Conversation on-Site

Summer 2017

International Cooperation & Communication

Visiting the University of North Texas

During May 1-4, Co-Dean Dejian Liu and Ronghuai Huang led a delegation to visit the University of North Texas (UNT) to do further implementation on strategic cooperation agreement matters signed between BNU and UNT on March 18. President Neal J. Smatresk led the delegation to visit the UNT Student Center, the School of Music, the School of Information and the Arts Center, and watched the convergent media, immersive performance of technology and art, and also made communications about "how to introduce technology to support design" and the future specific classroom cooperation matters as well as other aspects.



Two Deans and President of UNT



Photo of Delegates and UNT

Attending the 2017 International Seminar on Intelligent Teaching Systems

During June 13-14, Dean Ronghuai Huang attended the "2017 Intelligent Teaching System Seminar" jointly organized by the US Army Laboratory and the Intelligent Systems Institute of Memphis University at the Iowa State University in the United States. The theme of the seminar is "Team Learning and Work Task Modeling" for the GIFT (Generalized Intelligent Framework for Tutors) framework. A number of experts from countries such as the United States and Romania attended the conference. Dean Huang made a "Group learning and collaborative knowledge construction of network learning space" theme report, shared the results of the group study, and conducted in-depth exchanges with the experts in the field.



Visiting San Francisco

During April 11-14, Dean Ronghuai Huang led a delegation to visit San Francisco, and visited the International Stanford Research Institute (SRI), Design School of Stanford University (D.School), American IDEO Design Company, Google Company, Facebook headquarters and so on, communicating with a number of experts, scholars and technical pioneers to understand advanced technology and scientific research of the various international research institutions and enterprises, and also made exchanges on the future cooperation possibility in the relevant direction.



Visit SRI

Report Made by Dean Ronghuai Huang



Meet with Google VR/AR Education Product Team

Leaders and Experts Visit SLIBNU



UNESCO's Research and Training Centre for Rural Education Visited SLI (7/4/2017)



Deborah Terry, President of Australia's Curtin University Visited SLIBNU (5/5/2017)



The Deputy Secretary-General of the Association of Southeast Asian Nations Dr. Muhetan Visited SLIBNU (15/5/2017)



Google global AR/VR Strategy Head Steven Kan Visited SLI (5/4/2017)



President of Chinese Society of Educational Development Strategy Keming Hao Visited SLI (9/6/2017)



The 2017 pilot provincial high school curriculum teaching guideline research and development seminar was held in SLIBNU (10/4/2017)

Project Status in 2017

"ICT helps rural area alleviate poverty, improve the teaching quality" Seminar was held

On June 8th, "Information technology helps rural area alleviate poverty, improve the teaching quality" Seminar was successfully held in SLIBNU. It focused on poverty alleviation and the development of educational informationization in rural area. Experts from Beijing Normal University, Huazhong Normal University attended this meeting, discussed new solutions for poverty alleviation, and the current international hot issues of the development of rural education.

President of Fuguan city, Guizhou province leadership programme

In June 2017, the fourth leadership development seminar for teachers and presidents of Fuguan city was successfully held. The expert team from SLIBNU went to the primary and middle schools and kindergartens in Fuguan city to carry out a series of field visits, evaluation and supervision, in-depth seminars to help Fuguan city develop experimental district.

Gansu Province Experimental District Smart Campus Project

"One body and two wings" smart campus, smart learning space, smart innovative team development plan was approved. Several related activities were carried out orderly. It helps Qingyang smart campus project to explore its development path and mode.



Submitted by Yongzhong Wang

Submitted by Yongzhong Wang

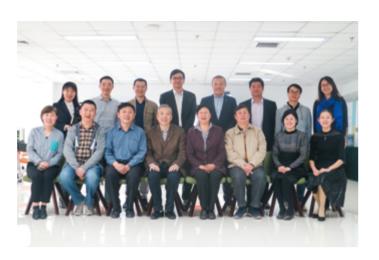
Submitted by Yongzhong Wang

Apple Regional Training Center (RTC) Project

In May 2017, project team took part in the three-day RTC project meeting hosted by Apple. Together, we discussed the feasibility of carrying out RTC in SLIBNU, and the subsequent training work in the aspect of "Integrating information technology and discipline training".

Research report on the popularization of art education in primary and secondary schools

On April 12, "Art Popularization Education Forum" was held in SLIBNU, Chinese Democratic League Committee, industry experts, representatives of enterprises and others have suggested a series of recommendations on art popularization. On June 1, project start-up meeting was held, participating experts have discussed the opportunities and challenges of art popularization. From art resources construction to presentation, from ways for popularization to achievement assessment, a series of thinking frameworks were formed.



Submitted by Yanli Jiao

"2016 China Internet Education Service Industry **Research Report**"

Project team developed multiple seminars, discussed issues regarding the whole framework, data statistics and analysis, report writing and so on. Under Dean Ronghuai Huang and industry experts' lead, project members has completed the first draft in abstract version.

Submitted by Yanli Jiao

"Research on the Standard Specification and Innovation Service Model of Digital Educational **Resources**"

By developing standards for featured educational resource construction and public service sharing certification, it provides certification service for online education industry on resource sharing. By developing tools for researching learning behavior and quality analysis, education resource standard management, and learning resource sharing certification, it provides technical support for project research.

2017 Research on Digital Learning Methods for Primary and Middle School Students in Beijing

On May 31, hosted by project team and Beijing Education Network and Information Center Research Department, project meeting was held. It introduced the research background, purpose, and the specific arrangement and layout of the next step of work. More than 3, 500 paper surveys have been collected, which provides strong data support for the project.

Submitted by Yanli Jiao

"Internet + 'Education System Research"&" In 'Internet +' Era, Students' Learning and Development Research"

Subject to exploring middle school students' characteristics and cognitive pattern under "Internet +" learning scenario, impact on students learning behaviors with "Internet +" educational resources, lifestyle and social behaviors for "digital natives", research established a basic model for students' learning and development. It provides the theoretical basis and practical experience for "Internet +" education.

Summer 2017

On May 26-27, hosted by the ministry of education, industry and information technology, and Fujian Provincial Education Department, co-hosted by Elernity, Fujian Chuanzheng Communications College, and Ministry of industry and Information Technology Vocational Education Teaching Steering Committee, "2017 National Vocational Skills Competition - VR Design and Production for Higher Vocational G roup" was held in fuzhou.

"Digital Education and Publication" Forum

On May 8 to 9, hosted by China Audio and Digital Publishing Association Digital Education Publication Committee, co-hosted by China Association of Higher Education's Educational Research Branch, organized by Elernity, the second "Digital Education and Publication" Forum was held in Fuzhou. Vice dean Changjie Chen has made a speech on "Challenges and Innovation Faced in Digital Education Publication", also shared the "Smart Editing" Solution.

Submitted by Zhenzhen Cheng

地实(VR)设计与制作赛项 5 48×3 20×3

Submitted by Zhenzhen Cheng



Books & Articles

Introduction

2017 is halfway through, The Belt & Road, artificial intelligence, smart learning and others have filled the whole field of education, instead of chasing the prevailed idea, SLIBNU is right here exploring the essence of Smart Learning under the guidance of national policies, and has published a number of research outcomes.

> It's the first whitepaper on educational robot. By integrating six different user groups' demand for educational robot and analyzing the developmental trend of the market, it meets the personalized needs of readers and the size of the market of educational robot products.

> > 教育和影

一部風 0 learning status of smart cities, we provide a lot of accurate data from the different backgrounds of smart learning and introduce the current status of Chinese smart learning to readers.

By researching the smart



Smart Learning in Smart Cities

2 Spring

It analyzes the developmental status of smart learning environments in 68 Chinese cities, promotes basic understanding towards smart learning in general public, and provides a reference towards the sustainable development of Chinese urban smart learning environment.





Integrating

Smart learning field is developing rapidly and attracts great attention from enterprises and universities. Hence, SLIBNU is facing great pressure, needs to equip with outstanding capacity on strategy planning, build a vision for future development.

Unlike enterprises, universities and other research institutes, SLIBNU should have the capacity to consolidate and make full use of the advantages of universities. enterprises, aovernment and society.

SLIBNU Received TICL Outstanding International Research Collaboration Award

On April 28, SLIBNU received TICL Outstanding International Research Collaboration Award from AERA. This award was shared by Beijing Normal University, University of North Texas, and East China Normal University. Dean of SLIBNU Ronghuai Huang, foreign expert of SLIBNU J. Michael Spector, Kinshuk, and other international scholar were awarded.



TICL award is mainly for international scholars who have great contribution in technology, cognition and learning field.

Cultivating Five Capacities

Executing

Regarding various projects, SLIBNU needs to carry out the plan as planned, complete everything that is promised to society.



During the executing process, external environment may have changed, SLIBNU needs to equip with the strain capacity, can react quickly to change or an emergency, to seek an appropriate solution.



SLIBNU needs to have the expressing capacity when release products and research findings when expand social influence, when communicate within internal departments of the University.

Dr. Haijun Zeng participated in Netdragon's the 81st management meeting on behalf of SLIBNU

On May 15, 81st management meeting of managers was held at Netdragon's Changle base. Dean Dejian Liu delivered a speech, suggesting that in this era, technology and market changes very fast, and Netdragon will continue to provide more valuable services and products to the society, thus achieving victory. Dr. Haijun Zeng also attended this meeting and talked about SLIBNU's aim in becoming the most valuable, influential and profitable institute. He shared ten steps for actualizing "Open Attack" strategy, and five capabilities raised by Dean Ronghuai Huang.



Dr. Haijun Zeng is presenting

SLIBNU Cultivated Academic Atmosphere



Haijun Zeng:

4.27

6.01

6.07

The modern remote education project of rural primary and middle schools in China

Wenqian Bai, Jingjing Xu: Jinping Xi's Educational Informatization Thought

Yuan Gao: The Belt & Road Countries' Educational Informatization Research Report

Haijun Zeng:

E-HR for Universities and Management

Yuan Gao:

The Belt & Road Countries' Educational Development Action Plan

Yongzhong Wang:

Application Status of 101 Educational PPT Jing Du Learning scenario

SLIBNU Promoted Achievements Through Seminars



Beijing, The Fifth Scientific Research Seminar, "2017 NMC Horizon Report for Chinese Higher Education"

Hangzhou, Cutting-edge technology sharing, "2016 Report of the Cyberlearning Products Development

Beijing, Tsinghua University Big Data in Education Forum, "Data, Evidence and Value in Educational

Fuzhou, The Third National Lecturers and Presidents Summit, "2016NMC Horizon Report for Chinese K-12

Taiwan, 2017VR Education Festival x VR Industrial Tide Activity, "Potential and Challenge of VR in Education"

Taiwan, 2017VR Education Festival x VR Industrial Tide Activity, "Build New Ecology using AR/VR"

Urumgi, Urumgi Basic Education Information Application and Outcome Exhibition, "Big Date in Education:

Russia, The Fourth "Education and Global City: World Universities Smart Learning" International Seminar,

Beijing, Lecture Series of The Open University Of China's Fifth Anniversary, "Internet PromotesEducational

Beijing, Innovation and Development of Educational Technology Discipline under Digital Age, "Historical

Beijing, The Second ICT of Higher Education Presidents Summit, "NMC Horizon Report"

Beijing, 2017 The Third "Internet+Education" Innovative Week: New Dimension, New Classroom, "White

US, 2017Intelligent Teaching System Seminar, "Team Leanring in Internet Learning Space and Collaborative

Zhumadian, The Forth Industry and Education Integrated Developmental Strategy International Summit, VR

Hongkong, International Conference on Blended Learning, "Smart Learning Environments in Smart Cities"

Exclusive Interview



Character: Kekang He

Prof. He is the professor in School of Educational Technology, Beijing Normal University; the director in Modern Educational Technology Research Institute, School of Educational Technology; the current honorary professor (tenure) in Northeast Normal University; the first supervisor of Ph.D. students in Educational Technology, China. He has long engaged in educational technology theory and applied research (especially those network education applied research based on the Internet

 \mathbf{O} Hello, Prof. He. Glad to hear that your new book A Theory of Creative Thinking - Construction and Verification of the Dual Circulation Model will soon come out. Would you please briefly introduce the dual circulation model of creative thinking?

Α The nature of creative thinking is the psychological processing of creating inspiration or insight in human mind; however, since academic circles, at home or abroad(including areas of education, psychology and philosophy), can not figure out the psychological processing of inspiration and insight (i.e. the specific embodiment of creative thinking), inspiration and insight become mysterious; this phenomenon results from the history of discipline division - psychologists only focus on the inner psychological processing and outer behavior; yet the inner psychological processing is controlled by the physiological mechanism on cerebral cortex, and the cerebral cortex (dissection is involved), in discipline division, belongs to neuroscience of medical science. Therefore, physiological mechanism is in neurophysiologists'field. (Psychologists always regard physiological mechanism as a black box and let neurophysiologists, in medical field, to find out the secret of the black box. While these neurophysiologists, by dissection, can easily figure out the secret of the black box, still, they know nothing about psychology.) That is the fundamental reason why the inspiration and insights seem to be mysterious and can not be figured out for a long time(in all ages).

In order to make inspiration and insight clear, the dual circulation model, using the latest achievement of dissection, elaborates the psychological processing, processing links and specific processing process of the formation of inspiration as well as insight (i.e. the formation of creative thinking). Therefore, this model can let people truly understand the exact nature of inspiration and insights; on this basis, this model can be a set of practical, repeatable, propagable ways to cultivate the creative thinking of students.

At present, maker education is becoming an important research area. n Prof. He's opinions, what is the relation between the cultivation of creative thinking and maker education?

A In order to achieve the goal of mass entrepreneurship and innovation raised by Premier Li Kegiang, the cultivation of students' creative thinking must be strengthened in maker activities and thus improve students' creativity(creative thinking is the basis and precondition of creativity). The training of creative thinking would better includes the following four aspects:

- (1) The scientific understanding of the nature as well as the structure of creative thinking
- (2) The psychological processing model of inspiration or insight
- (3) The misunderstanding in creative thinking, at home or abroad.
- (4) The training methods of creative thinking (see details in the last chapter of A Theory of Creative Thinking)

Many of your theories' formation and development come from your Leaping Development of Basic Education project. It is reported that this project started since 2000 and lasts for 17 years so far. Would you please talk about the relation between Leaping Development of Basic Education project and the research practice as well as theoretical innovation of educational technology?

Among all the professors in Beijing Normal University, I am the one who goes to primary and secondary schools (especially rural primary and secondary schools) most frequently. It shows that there must be an inner relation between practice and theory - theory comes from practice, and practice is guided by theory, which can realize the value of theory; otherwise, the theory without practice is meaningless.

For example, basing on criticizing Piaget's theory of cognitive development stages. I has written the book: The New Theory of Children's Thinking Development. In this book, I have the courage to challenge Piaget, not because I am a hot head who wants to be in the spotlight. Actually, I criticize Piaget's theory because find out, during my exploration of leaping experiment into primary and secondary schools (especially primary schools), that the true cognitive development of children conflicts with Piaget's theory. Furthermore, Piaget's theory seriously hinders the teaching of mother tongue. Till now, for the students of first and second grade in primary schools in the world, the teaching of mother tongue only focuses on learning how to read. Writing is not involved until the third grade; besides, in the lower grades of primary schools (grade 1 to grade 4), imagery teaching is emphasized and the cultivation of logical thinking is not involved. And the reason for all of these phenomena above is Piaget's theory of cognitive development stages. Therefore, I have the courage to challenge Piaget and propose a brand new theory of cognitive development stages - The New Theory of Children's Thinking Development; under the guidance of this new theory, we propose an unprecedented, self-dependent, innovative theory as well as the 2-1-1 mode of teaching mother tongue. In this theory and 2-1-1 mode, students will start to learn how to recognize, read and write together in grade 1; these findings all result from my experiment and exploration of Chinese teaching reform in primary and secondary schools (especially primary schools).

Prof. He's Academic Ideas Seminar was held in Beijing Normal University

"Innovation and Development of Educational Technology Discipline in Digital Era - Professor He's Seminar on Academic Ideas" was hosted in Yingdong seminar hall, Beijing Normal University. This seminar, during the 80th birthday of Prof. He, attracted more than 400 people including Chinese scholars and workers in primary and secondary schools around the world. President Qi Dong, of Beijing Normal University, attended the seminar and phrased Prof. He. President Dong said: "Prof. He constructs his research based on the practice in China and always sticks to the idea that the laboratory of education is constructed in schools and classrooms. Prof. He is called as the big professor in primary schools." In more than ten years, Prof. He has come to more than 30 experimental areas in China and improved the quality of basic education and the equality of education by applying the latest educational technology. Thousands



of students have benefited from the leaping instructional method proposed by Prof. He and changed their life.

Dean Ronghuai Huang attended the seminar and delivered a speech in which Prof. He's contribution to subjects and his willpower to learning were praised. Besides, Dean Huang also mentioned that Prof. He's papers were most cited in Beijing Normal University and education circles, which showed his academic influence. On that day, the first "Nan Guonong Education Informationization" individual achievement award was presented to Prof. He.

