



MINISTRY OF EDUCATION AND TRAINING
 THE VIETNAM NATIONAL INSTITUTE OF EDUCATIONAL SCIENCES
 Address: 101 Tran Hung Dao, Hoan Kiem, Hanoi
 Phone: (84-4)394 232639. Fax: (84-4) 3822 1521
 Email: info@vnies.edu.vn. Website: www.vnies.edu.vn

**INTERNATIONAL WORKSHOP
 MATHEMATICS IN A CHANGING WORLD**

Hanoi, October 14-15, 2021

Venue: 04 Trinh Hoai Duc Str, Hanoi, Vietnam

DAY 1		
October 14, 2021		
TIME	CONTENTS	
8:00 – 8:30	Registration and Welcoming participants	The Organizing Committee
8:30 – 8:40	Introduction	MC
8:40 – 8:55	Opening remarks	Professor Le Anh Vinh, Acting Director General of the Vietnam National Institute of Educational Sciences
8.55 – 9.00	Group photo	
9:00 – 10:00	PLENARY SESSION Mathematical flexibility: A promising focus for research and practice	Keynote speaker: Professor Jon R. Star, Harvard Graduate School of Education, Harvard University, USA Moderator: Professor Nguyen Huu Chau, Vietnam National University – University of Education
10.00 – 12.00	Session 1. Math Curriculum Development	Moderator: Assoc. Prof. Do Tien Dat, the Vietnam National Institute of Educational Sciences
	Developing a Culturally Relevant Mathematics Curriculum Using Transdisciplinary Approaches	Professor Catherine P.Vistro-Yu, Ateneo Manila University, Philippines
	Mathematics education in Vietnamese high schools under the context of curriculum and textbook innovation	Prof. Do Duc Thai, Hanoi National University of Education; Assoc. Prof. Do Tien Dat, the Vietnam National Institute of Educational Sciences
	Exploiting some situations and problems in the content of the high school math	Dr. Pham Thi Hong Hanh, Hanoi National University of Education 2



MINISTRY OF EDUCATION AND TRAINING
 THE VIETNAM NATIONAL INSTITUTE OF EDUCATIONAL SCIENCES
 Address: 101 Tran Hung Dao, Hoan Kiem, Hanoi
 Phone: (84-4)394 232639. Fax: (84-4) 3822 1521
 Email: info@vnies.edu.vn. Website: www.vnies.edu.vn

	curriculum in the direction of clarifying the relationship between mathematics and the practice of professions in society	
	Mathematical symbols in mathematics education and development of mathematical communication competence in high school mathematics in Vietnam	Dr. Le Van Hong, Hanoi Metropolitan University
12.00 – 13.00	Lunch and networking	
13.00 – 15.00	Session 2. Mathematics Teacher Education	Moderator: Assoc. Prof. Chu Cam Tho, the Vietnam National Institute of Educational Sciences
	Keynote: Continuing professional development of mathematics teachers	Prof. Berinderjeet Kaur, National Institute of Education, Singapore
	Keynote: Integrating mathematics with other disciplines in teacher education	Prof. Merrilyn Goos, University of the Sunshine Coast, Australia
	Training Mathematics teachers in Vietnam, meeting the requirements of the fourth revolution education	Assoc. Prof. Cao Thi Ha, Vietnam National University – University of Education
	High-school mathematics teacher education for new coming curriculum at Vietnam - A case study at the VNU, University of Education	Assoc. Prof. Nguyen Chi Thanh, Vietnam National University – School of Education
15.00 – 16.00	PLENARY SESSION Errors and Mistakes in Mathematics and Social Constructivism	Keynote speaker: Professor Paul Ernest, University of Exeter, England Moderator: Professor Le Anh Vinh, the Vietnam National Institute of Educational Sciences



MINISTRY OF EDUCATION AND TRAINING
THE VIETNAM NATIONAL INSTITUTE OF EDUCATIONAL SCIENCES
Address: 101 Tran Hung Dao, Hoan Kiem, Hanoi
Phone: (84-4)394 232639. Fax: (84-4) 3822 1521
Email: info@vnies.edu.vn. Website: www.vnies.edu.vn

16.00 – 17.00	PANEL DISCUSSION Using Technology in Math Education	Moderator: Do Duc Lan, the Vietnam National Institute of Educational Sciences Panelists: - Professor Raz Kupferman, Co-founder of Matific - Dr. Tran Hung, founder of Got IT - Dr. Damien Rompapas, founder of BEER Labs
17.00 – 17.10	Closing remarks	Professor Le Anh Vinh, Acting Director General of the Vietnam National Institute of Educational Sciences

Note: 40 minutes for a keynote presentation, 20 minutes for a contributed presentation



MINISTRY OF EDUCATION AND TRAINING
THE VIETNAM NATIONAL INSTITUTE OF EDUCATIONAL SCIENCES
Address: 101 Tran Hung Dao, Hoan Kiem, Hanoi
Phone: (84-4)394 232639. Fax: (84-4) 3822 1521
Email: info@vnies.edu.vn. Website: www.vnies.edu.vn

**INTERNATIONAL WORKSHOP
MATHEMATICS IN A CHANGING WORLD**

Hanoi, October 14-15, 2021

Venue: 04 Trinh Hoai Duc Str, Hanoi, Vietnam

DAY 2		
October 15, 2021		
TIME	CONTENTS	
8.00 – 8.30	Registration and Welcoming participants	The Organizing Committee
8:30 – 9.30	PANEL DISCUSSION Education for the Gifted in the World	Moderator: Prof. Le Anh Vinh, Acting Director General of the Vietnam National Institute of Educational Sciences Panelists: - Prof. Yong-jin Song, Inha University, Head of IMO Korea - Prof. Po-Shen Loh, Carnegie Mellon University, Head of IMO America - Dr. Hang Kim Hoo, Principal of Jurong Pioneer Junior College, Vice president of Mathematical Society
9.30 – 10.30	PANEL DISCUSSION Education for the Gifted in Vietnam	Moderator: Prof. Le Anh Vinh, Acting Director General of the Vietnam National Institute of Educational Sciences Panelists: - Assoc. Prof. Emeritus Ton Than, the Vietnam National Institute of Educational Sciences - Dr. Luu Ba Thang, Hanoi National University of Education - Dr. Tran Nam Dung, Vietnam National University Ho Chi Minh City - University of Science
10.30 – 10.40	Group photo and networking	



10.40 – 12.00	Session 3. Technology in Math Education	Moderator: Dr. Dang Xuan Cuong, the Vietnam National Institute of Educational Sciences
	Half a century of information technology application in mathematics education: from Web-based Learning to Cloud-based Learning	Prof. Tran Trung, Vietnam Academy for Ethnic Minorities, Vietnam Dr. Nguyen Ngoc Giang, Banking University of Ho Chi Minh City, Vietnam
	Teaching and solving real-life problems with dynamic software: The case of Geogebra software.	Prof. Nguyen Phu Loc, Can Tho University Ngo Tung Hieu, Nguyen Dinh Chieu High School
	Augmented Reality implementation to create excitement in Math for primary students	Phung Thi Thu Trang , the Vietnam National Institute of Educational Sciences Vu Van Luan, Green Technology Joint Stock Company
	Creating digital content applied in e-books design for primary school students	Assoc. Prof. Dao Thai Lai, the Vietnam National Institute of Educational Sciences
12.00 – 13.00	Lunch time and networking	
13.00 – 15.20	Session 4. Math in STEM Education and Realistic Math Education	Moderator: Assoc. Prof. Pham Duc Quang, the Vietnam National Institute of Educational Sciences
	Keynote: Development STEM skills in early childhood	Prof. Mark Applebaum, Kaye Academic College of Education, Israel
	Developing a STEM lesson plan in teaching middle school math	Dr. Dang Thi Thu Hue, the Vietnam National Institute of Educational Sciences
	Mathematics and Coding in STEM education	Dr. Daryna Vasylieva, National Pedagogical Dragomanov University
	Some basic problems of teaching mathematics in the direction of increasing connection with practice	Assoc. Prof. Pham Duc Quang, Vietnam Institute of Educational Sciences; Nguyen Duc Ngoc, Semi-boarding high school for ethnic minorities Hoa Tham junior high school, Cao Bang



		Province; Vu Ngoc Hoa, Ngo Quyen High School, Dong Nai Province
	Enhancing financial elements in K-12 math education: an approach from RME theory.	Dr. Tran Cuong, Hanoi National University of Education Nguyen Tien Dat, Hanoi National University of Education
15.20 – 16.20	Session 5. Mathematical Competence	Moderator: Dr. Nguyen Thi Kieu Oanh, the Vietnam National Institute of Educational Sciences
	Geogebra As a Tool to Enhance Understanding the Concept of Derivatives of a function and Develop Mathematical Competence	Dr. Pham Sy Nam, Faculty of Applied Mathematics, Saigon University
	Using context problems in teaching to improve the problem-solving ability of 10th graders	Ho Thi Minh Phuong, Faculty of Mathematics, Hue University of Education, Faculty of Education, Quy Nhon University
	Collaborative capacity to solve assessment-oriented problems in high school math	Assoc. Prof. Nguyen Thi Lan Phuong, Vietnam Institute of Educational Sciences
16.20 – 16.30	Closing remarks	Professor Le Anh Vinh, Acting Director General of the Vietnam National Institute of Educational Sciences

Note: 40 minutes for a keynote presentation, 20 minutes for a contributed presentation