



2nd International Conference on Future of Education 2019

"Empowering Learners in a Digital World"

13th – 14th June 2019 | Bangkok | Thailand

TECHNICAL PROGRAM

DAY 01 – THURSDAY, 13TH JUNE, 2019

INAUGURATION SESSION	Thursday, 13th June 2019 08.00 to 10.20 Paetai Room (14th Floor)	
	08.00 – 09.00	Conference Registration
	09.00 – 09.10	Welcome Address by the Conference Convener Mr. Isanka P. Gamage (<i>Co-Founder & Managing Director - The International Institute of Knowledge Management (TIKM), Sri Lanka</i>)
	09.10 – 09.30	Speech by the Conference Chair Dr. Brian D. Beitzel (<i>Director of Education Assessment and Accreditation, Professor of Educational Psychology State University of New York College at Oneonta, USA</i>)
	09.30 – 09.40	Speech by the Co-Hosting Partner - The University of Ljubljana, Slovenia Prof. Dr. Janez Vogrinc (<i>Dean, Faculty of Education University Ljubljana, Slovenia</i>)
	09.40 – 09.50	Speech by the Co-Hosting Partner - Universiti Teknologi Malaysia, Malaysia Assoc. Prof. Sr Dr. Zakaria Mohd Yusof (<i>Director of Continuing Education, UTMSPACE, Malaysia</i>)
	09.50 – 10.00	Launch of Conference Trailer – FutureEdu 2020
	10.00 – 10.20	Conference Photograph
	10.20 – 10.40	Morning Refreshments

KEYNOTE FORUM	Thursday, 13th June 2019 10.40 to 11.20 Paetai Room (14th Floor)	
	10.40 – 11.20	"Artificial Intelligence for Educators: Using Technology to Produce Work Ready Graduates" Mr. Tim Bergmeier (<i>Director, InPlace (Asia) QuantumIT</i>)



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PLENARY SPEECH	Thursday, 13th June 2019 11.20 to 11.50 Paetai Room (14th Floor)	
	11.20 – 11.50	"Unleashing Flipped Learning in India - Challenges & Opportunities" Dr. Malay R. Dave (<i>JIS College of Engineering, India</i>)

TECHNICAL SESSION 01	SCIENCE EDUCATION I	
	Thursday, 13 th June 2019 11.50 to 13.10 Paetai Room (14 th Floor)	
	Chaired by Dr. Tatjana Hodnik (<i>University of Ljubljana, Slovenia</i>)	
	11.50 – 12.10	A1 Training of Trainers in Science Investigation: A Hybrid Democratic Process of Curriculum Development and Improving One's Practice Denis Dyvee R. Errabo ^{1,2} , Maricar S. Prudente ^{1,2} (¹ <i>De La Salle University, Philippines</i> , ² <i>National Research Council of the Philippines</i>)
	12.10 – 12.30	A2 Development and Validation of Socioemotional Skill Domains of Science Students Questionnaire Ivan Joseph M. Arevalo, Maricar S. Prudente (<i>De La Salle University, Philippines</i>)
	12.30 – 12.50	A3 Exploring Filipino Students' Critical Thinking Skills: Basis for Enhancement of Science Laboratory Class Delivery Ryan Villafuerte Lansangan ¹ , Antriman Vipinosa Orleans ² (¹ <i>University of Santo Tomas, Philippines</i> , ² <i>Philippine Normal University, Philippines</i>)
	12.50 – 13.10	A4 Integrating Multiple Instructional Approaches in Teaching of Secondary School Chemistry in Kenya Mulavu G.W., Aurah Catherine (<i>Masinde Muliro University of Science and Technology (MMUST), Kenya</i>)
	13.10 – 14.10	Networking Lunch

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PLENARY SPEECH	Thursday, 13th June 2019 11.20 to 11.50 Morakot I (12th Floor)	
	11.20 – 11.50	"Digital Motivation: Online Gaming vs. Online Learning" Dr. Edward Roy Krishnan (<i>President European International University (EIU), Paris, Managing Director Bangkok School of Management (BSM) – Bangkok</i>)

TECHNICAL SESSION 02	MATHEMATICS EDUCATION I	
	Thursday, 13 th June 2019 11.50 to 13.10 Morakot I (12 th Floor)	
	Chaired by Dr. Janez Krek (<i>University of Ljubljana, Slovenia</i>)	
	11.50 – 12.10	B1 Servant Leadership in the Seminaries in China: A Study Of Structural Equation Modeling Shejun Ma ¹ , Antriman V. Orleans ² , Zenaida C. Sison ³ (<i>¹De La Salle University, Philippines, ²Philippine Normal University, Philippines, ³Santa Isabel College, Philippines</i>)
	12.10 – 12.30	B2 Example–Conclusion Map in Teaching Simple Interest: A Lesson Study Fleur De Cory A. Ngiwas, Daisy Lyn F. Mariano, Jayson G. Barsana, Michelle P. Cruz, Dominic Bagano, Levi Elipane (<i>Philippine Normal University, Philippines</i>)
	12.30 – 12.50	B3 Integrative Gamification Technique in Teaching Specialization Courses in Mathematics Lanuza Maryann Hibek (<i>City College of Calamba, Philippines</i>)
	12.50 – 13.10	B4 Eliciting Knowledge in Properties of Circle by Geometric Construction: A Lesson Study Arianne Mae Borboran, Karlo May Portento, Krizle Fidelis Claudio, Melrose Mendiola, Randolph Rodriguez, Rona Marie Viernes, Levi E. Elipane (<i>Philippine Normal University, Philippines</i>)
13.10 – 14.10	Networking Lunch	

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TECHNICAL SESSION 03	TEACHING METHODS I	
	Thursday, 13 th June 2019 11.50 to 13.10 Ampawa I (10 th Floor)	
	Chaired by Prof. Maricar S. Prudente (<i>De La Salle Araneta University, Philippines</i>)	
	11.50 – 12.10	C1 Investigating Kenyan Primary School Teachers 'STEM Teaching through a Girl Child Cultural Experiences / Knowledge Framework S. Ooko ¹ , F. Kelonye ² , S. Nashon ³ (¹ Masinde Muliro University, Kenya, ² Kibabi University, Kenya, ³ University of British Columbia, Canada)
	12.10 – 12.30	C2 Keeping STEM Enthusiasm on Track Okoth A.W., Opiyo R.A. (<i>Masinde Muliro University of Science and Technology, Kenya</i>)
	12.30 – 12.50	C3 Development of a Strategy to Implement Stem based Learning in Rural Areas of Ecuador Luis Escobar, David Loza, Emilio Tumipamba, Edwin Rodríguez, Christian Gutiérrez, Alexandra Verdugo, Henry Rivera (<i>Universidad de las Fuerzas Armadas ESPE, Ecuador</i>)
	12.50 – 13.10	C4 Teaching Wave and Its Properties using Inquiry-Based Instruction through Virtual Simulation: A Lesson Study Eviota J.S., Venida A.C., Velchez L.M.T., Caballero M.C.S., Canlas A.C., Kong S., Elipane L.E. (<i>Philippine Normal University, Philippines</i>)
	13.10 – 14.10	Networking Lunch

CAREER DEVELOPMENT WORKSHOP	Thursday, 13th June 2019 14.10 to 15.10 Paetai Room (14th Floor)	
	14.10 – 15.10	"Strategies for Applying Course Content to Real - World Contexts" Dr. Brian D. Beitzel (<i>Director of Education Assessment and Accreditation, Professor of Educational Psychology State University of New York College at Oneonta, USA</i>)

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TECHNICAL SESSION 04	SCIENCE EDUCATION II		
	Thursday, 13 th June 2019 15.10 to 17.10 Paetai Room (14 th Floor)		
	Chaired by Dr. Ezra S. Aguilar (<i>University of Santo Tomas Manila, Philippines</i>)		
	15.10 – 15.30	A5	Cognitive Attributes and Psychosocial Aspects of Science Learning Environment of Grade 10 Science Students: A Causal Model on Academic Performance Maris Jade Q. Orongan ¹ , Dr. Edna B. Nabua ² (¹ <i>Central Mindanao University, Philippines</i> , ² <i>MSU-Iligan Institute of Technology, Philippines</i>)
	15.30 – 15.50	A6	Teachers’ Instructional Strategies and Students’ Learning Styles as Predictors of Academic Performance in Physics Practical Work among High School Students in Kenya Wesonga F.M., Aurah Catherine (<i>Masinde Muliro University of Science and Technology (MMUST), Kenya</i>)
	15.50 – 16.10	A7	Using Whole-Brain Teaching Approach (WBTA) in Teaching Cell Concepts in General Zoology Lawsin N.L.P., Prudente M.S. (<i>De La Salle University, Philippines</i>)
	16.10 – 16.30	A8	The Role of Scientific Attitude and Academic Persistence to the Academic Performance of Grade 12 STEM Students Cadiente R.A., Iglesias J.V., Prudente M.S. (<i>De La Salle University, Philippines</i>)
	16.30 – 16.50	A9	Development and Evaluation of Differentiated Chemistry Instructional Module Based on the 4CS of Learning Javier Jennalyn P. ¹ , Palomar Brando C. ² (¹ <i>Nicolas L. Galvez Memorial Integrated National High School, Philippines</i> , ² <i>Philippine Normal University, Philippines</i>)
	16.50 – 17.10	A10	Effects of Context-Based Approach with Technology Integration on Students’ Achievement and Attitudes toward Learning Physics Castillo Marius Engelbert Geoffrey C. ¹ , Del Carmen Marc Vener C. ² , Palomar Brando C. ³ (¹ <i>Central Luzon State University, Philippines</i> , ² <i>Congressional Integrated High School, Philippines</i> , ³ <i>Philippine Normal University, Philippines</i>)
17.10 – 17.30	Evening Refreshments		

TECHNICAL SESSION 05	MATHEMATICS EDUCATION II		
	Thursday, 13 th June 2019 15.10 to 17.10 Morakot I (12 th Floor)		
	Chaired by Dr. Benton M. Brown (<i>Bath Spa University, United Kingdom</i>)		
	15.10 – 15.30	B5	Stimulating Understanding of Properties of Quadrilaterals using Van Hiele's Model: A Lesson Study Mariel Africa, Arianne Mae Borboran, Mary-Ann Guilleno, Anne Jeannette C. Pamplona, Jennifer Torrefranca, Levi E. Elipane (<i>Philippine Normal University, Philippines</i>)
	15.30 – 15.50	B6	Students' Perception towards the Practice of Effective Mathematics Teaching in the Classroom Javier Desiree P. ^{1,2} , Prudente Maricar S. ² (¹ Nicolas L. Galvez Memorial Integrated National High School, Philippines, ² De La Salle University, Philippines)
	15.50 – 16.10	B7	A Lesson Study on the Use of Gamification using Manipulatives in Teaching Probability Maryann H. Lanuza, Richie V. Mendoza, Kristine Anne C. Dimaculangan, Robert Jan R. Bayan, Levi E. Elipane (<i>Philippine Normal University, Philippines</i>)
	16.10 – 16.30	B8	Discovering the Properties of Parallelogram through Collaborative Learning: A Lesson Study Gapasan V. Larena, E. Larino L., Mendoza H., Pedrosa E., Elipane L. (<i>Philippine Normal University, Philippines</i>)
	16.30 – 16.50	B9	Discovering Basic Trigonometric Ratios: A Lesson Study Alvin Z. Alvarez , Justine Gerard B. Angeles, Rochell G. Arcilla, Revson D. Hidalgo, Marry Camile T. Landagan, Jahrel D. Tampil, Levi E. Elipane (<i>De La Salle University, Philippines</i>)
	16.50 – 17.10	B10	A Lesson Study on using Statistical Functions of Calculator as an Instructional Tool in Teaching Mean, Variance, and Standard Deviation Robert Jan R. Bayan, Bernadette M. Dequinco, Fleur De Cory A. Ngiwas, Eugene Menorca, Angelita Frias, Levi Elipane (<i>Philippine Normal University, Philippines</i>)
17.10 – 17.30	Evening Refreshments		

TECHNICAL SESSION 06	ENVIRONMENTAL EDUCATION, ARTS EDUCATION, LANGUAGE EDUCATION AND LITERACY		
	Thursday, 13 th June 2019 15.10 to 17.10 Ampawa I (10 th Floor)		
	Chaired by Dr. Okoth A.W. (<i>Masinde Muliro University of Science and Technology, Kenya</i>)		
	15.10 – 15.30	D1	Community – Based Environmental Learning Program: A Step to Uplift the Youths' Level of Environmental Literacy <i>Adonis A. David (Don Honorio Ventura Technological State University, Philippines)</i>
	15.30 – 15.50	D2	The Reading Comprehension Skills of Grade Eight Learners Exposed to the PRAISE Model <i>Cusipag Maria N., Lebria Zoren C. (De La Salle Araneta University and Baliuag University, Philippines)</i>
	15.50 – 16.10	D3	A Study of the Needs for Learning Thai Language and Culture of Japanese Students Studying Thai Language at the Faculty of Education, Chiang Mai University <i>Boonrawd Chotivachira (Chiang Mai University, Thailand)</i>
	16.10 – 16.30	D4	Evaluating the Effectiveness of the Clean-As-You-Go Campaign <i>Ruby P. Ramos, Maricar S. Prudente, Socorro E. Aguja (De La Salle Araneta University, Philippines)</i>
	16.30 – 16.50	D5	Exploring the Implementation of English Medium Instruction (EMI) in Indonesian Higher Education: Its Possible Contributions and Challenges <i>Muhammad Arif Al Hakim (Monash University, Australia)</i>
	16.50 – 17.10	D6	Improving the Second Year Students' Vocabulary through Communicative Language Teaching with Realia at Madrasah Tsanawiyah Madani Pao-Pao <i>Sabaruddin Sabaruddin (Monash University, Australia)</i>
17.10 – 17.30	Evening Refreshments		



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POSTER SESSION	Thursday, 13th June 2019 17.10 to 17.30 Paetai Room (14th Floor)	
	P1	Diagnostic of Mathematical Proficiency using Digital Transformation Junpeng Putcharee ¹ , Krotha Jenrop ¹ , Chanayota Kanokphon ¹ , Wilson Mark ² (¹ <i>Khon Kaen University, Thailand</i> , ² <i>University of California, USA</i>)
	P2	The Impact of Short-Term Teaching Abroad on Taiwanese Teachers' Intercultural Competence Chang Y.H., Chen L.H. (<i>Tamkang University, Taiwan</i>)
	P3	Primary School and Fine Art Teachers' Differences in Conceptions about the Preservation of Cultural Heritage and Its Implementation in Fine Art Teaching Robert Potočnik (<i>University of Ljubljana, Slovenia</i>)
	P4	The Role of Public Private Partnership in Development and Utilization of Masinde Muliro University of Science and Technology "Mm-Kilimo" Mobile Technology Rose Onamu, Omieno K, Kariaga M.G., Irungu N., Kariuki J., Simon Ndungu, Chesambu N.A. (<i>Masinde Muliro University of Science and Technology, Kenya</i>)

PANEL DISCUSSION	Thursday, 13th June 2019 17.30 to 18.30 Paetai Room (14th Floor)	
	17.30 – 18.30	"The Role of Education in Economic Development"

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DAY 02 – FRIDAY 14TH JUNE, 2019

TECHNICAL SESSION 07	SCIENCE EDUCATION III		
	Friday, 14 th June 2019 08.30 to 10.30 Paetai Room (14 th Floor)		
	Chaired by Dr. Cascolan Honelly Mae (<i>Pangasinan State University, Philippines</i>)		
	08.30 – 08.50	A11	Exploring Students' Perceptions and Conceptual Understanding in a Next Generation Blended Learning (NxGBL) Physics Class Magalong S.J.M., Prudente M.S. (<i>De La Salle University, Philippines</i>)
	08.50 – 09.10	A12	Synthesis on Bruner's Spiral Approach: The Case of Philippines' Reformed K+12 Science Curriculum Cañizares Monell John F. (<i>De La Salle University, Philippines</i>)
	09.10 – 09.30	A13	Cultural Dimensions, Epistemological Beliefs and Cognitive Styles: Profiling of Ilocano S.T.E.M. Learners Rahon Christy Ann M. ^{1,2} , Prudente Maricar S. ² (¹ <i>Mariano Marcos State University, Philippines</i> , ² <i>De La Salle University, Philippines</i>)
	09.30 – 09.50	A14	Physics Lectures and Activities with the Response System Mentimeter for the Pre-Service Primary School Teachers Jerneja Pavlin (<i>University of Ljubljana, Slovenia</i>)
	09.50 – 10.10	A15	Assessing Secondary Science Teachers' Self Efficacy Belief, Pedagogical Approaches and Content Knowledge amidst the Philippines' Curricular Reforms Cañizares Monell John F. (<i>University of San Carlos, Philippines</i>)
	10.10 – 10.30	A16	Students' Attitudes toward Physics, Academic Performance and Senior High School (SHS) Strand Preference Dela Cruz M.K.B., Lydia S. Roleda, Prudente M.S. (<i>De La Salle University, Philippines</i>)
10.30 – 10.50	Morning Refreshments		

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TECHNICAL SESSION 08	TEACHING AND LEARNING		
	Friday, 14 th June 2019 08.30 to 10.30 Morakot I (12 th Floor)		
	Chaired by Dr. Bernardo N. Sepeda (<i>De La Salle Araneta University, Philippines</i>)		
	08.30 – 08.50	E1	Measuring Teaching and Learning of the 4CS (Critical Thinking, Communication, Collaboration, Creativity) Javier Jennalyn P. ¹ , Prudente Maricar S. ² (¹ <i>Nicolas L. Galvez Memorial Integrated National High School, Philippines</i> , ² <i>De La Salle University, Philippines</i>)
	08.50 – 09.10	E2	Teacher Evaluation Rating Trend Analysis C.I. Mulig-Cruz ^{1,2} , B.C.U. Ong Kian Koc ¹ , G.P. Liwanag ² (¹ <i>De La Salle University, Philippines</i> , ² <i>Mindanao State University – Iligan Institute of Technology, Philippines</i>)
	09.10 – 09.30	E3	Lesson Study: The Tale of a Fair Game Closa D.M., Carcosia I.C., Elipane L. (<i>De La Salle University, Philippines</i>)
	09.30 – 09.50	E4	The Implementation of Higher-Order Thinking Skills in EFL Classroom: Teachers’ Perceptions Fajar Dwi Utami, Joko Nurkamto, Sri Marmanto, Lita Liviani Taopan (<i>Sebelas Maret University, Indonesia</i>)
	09.50 – 10.10	E5	Exploring English Teachers’ Perception towards Higher Order Thinking Skill (HOTS) in the 21 st Century Learning Nurika Mustika, Joko Nurkamto, Suparno , Alfi Nur Azizah (<i>Sebelas Maret University, Indonesia</i>)
	10.10 – 10.30	E6	Developing Higher Order Thinking Skills (HOTS) – Based Questions: Teachers’ Challenges Mei Ardaning Tyas, Joko Nurkamto, Sri Marmanto, Hening Laksani (<i>Sebelas Maret University, Indonesia</i>)
	10.30 – 10.50	Morning Refreshments	

TECHNICAL SESSION 09	TEACHING METHODS II		
	Friday, 14 th June 2019 08.30 to 10.30 Ampawa I (10 th Floor)		
	Chaired by Dr. Catherine M. Aurah (<i>Masinde Muliro University of Science and Technology, Kenya</i>)		
	08.30 – 08.50	C5	Strengthening Differentiated Instruction in Biology through Lesson Study Gilda A. Gundran, Alfred G. Desamparo Jr., Jona Q. Guevarra, Joann S. Aquino, Levi E. Elipane (<i>Philippine Normal University, Philippines</i>)
	08.50 – 09.10	C6	Promoting Speaker Autonomy and Language Confidence through Blooms Taxonomy based Lessons M.T.N. Wijetunge (<i>Kotelawala Defence University, Sri Lanka</i>)
	09.10 – 09.30	C7	The Use of Deep Learning Approach in Teaching Gas Laws Mistades V.M., Lacse M.A.T. (<i>De La Salle University, Philippines</i>)
	09.30 – 09.50	C8	The Link between Epistemological Beliefs in Higher Order Thinking Skills Teaching and Learning Jamin N.H., Surat S (<i>National University of Malaysia, Malaysia</i>)
	09.50 – 10.10	C9	Addressing the Alternative Conceptions of Senior High School Students in Chemical Kinetics Santos Marc Lancer J. ^{1,2} , Maricar S. Prudente ¹ (<i>¹De La Salle University, Philippines, ²Manila Tytana Colleges, Philippines</i>)
	10.10 – 10.30	C10	Lesson Study: A Tool for an Improved Instructional Design in Teaching Integration by Parts Daisy Lyn F. Mariano, Jayson G. Barsana, Kristine Dimaculangan, Leroy Flores, Freddie Parto, Oliver G. Mariano, Levi Elipane (<i>Philippine Normal University, Philippines</i>)
10.30 – 10.50	Morning Refreshments		

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TECHNICAL SESSION 10	TEACHER EDUCATION, MENTORING AND COACHING		
	Friday, 14 th June 2019 08.30 to 10.30 Ampawa II (10 th Floor)		
	Chaired by Dr. KinHo Chan (<i>Fulbright University Vietnam, Vietnam</i>)		
	08.30 – 08.50	F1	Teachers' Perceptions on the Principles, Attitudes and Processes in Doing Action Research: Drawing Implications for Faculty Training and Development Janette B. Torrato ¹ , Maricar S. Prudente ² , Socorro E. Aguja ³ (<i>De La Salle Santiago Zobel School, Philippines¹, De La Salle University, Philippines², De La Salle Araneta University, Philippines³</i>)
	08.50 – 09.10	F2	Transforming Educators to Wear the "Facilitator's Thinking" Hat Doss C.Y., Karunaweera A.S. (<i>University of Nottingham Malaysia, Malaysia</i>)
	09.10 – 09.30	F3	A New Approach in Mentoring and Coaching of Young Art Entrepreneurs Dr. Abdul Rahim Said (<i>National Art Gallery Malaysia, Malaysia</i>)
	09.30 – 09.50	F4	Exploring the Viability of Lesson Study as a Professional Development Model for Enhancing the Capabilities of Filipino Teachers Caigoy L.C., Fabia J.I., Lopez V.C., Nayve M.C.O., Sibayan I.S., Tabbal B.C., Elipane L.E. (<i>Philippine Normal University, Philippines</i>)
	09.50 – 10.10	F5	Kenyan University-Based Teacher Preparation Programs Need Revolutionary Change, Not Evolutionary Thinking Atieno Rose Opiyo (<i>Masinde Muliro University of Science and Technology, Kenya</i>)
	10.10 – 10.30	F6	Pre-Service Teachers' Attitudes and Preparedness on Working with Students of Poverty Aguja S.E., Sepeda B.N., Cusipag M.N., Prudente M.S. (<i>De La Salle Araneta University, Philippines</i>)
10.30 – 10.50	Morning Refreshments		

TECHNICAL SESSION 11	EDUCATIONAL SYSTEMS, POLICIES AND MULTICULTURAL ISSUES IN EDUCATION	
	Friday, 14 th June 2019 10.50 to 12.30 Paetai Room (14 th Floor)	
	Chaired by Dr. Pattaraporn Thampradit (<i>King Mongkut's Institute of Technology Ladkrabang, Thailand</i>)	
	10.50 – 11.10	G1 Better Outcomes for Students with Complex Needs through a Culturally Responsive Multi-Tiered System of Support Cumming T.M. (<i>UNSW Sydney, Australia</i>)
	11.10 – 11.30	G2 Stakeholders' Evaluation of the DLSZ Robotics Program: Basis for Policy Development Genevieve A. Pillar ¹ , Maricar S. Prudente ² , Socorro E. Aguja ³ (<i>¹De La Salle Santiago Zobel School, Philippines, ²De La Salle University, Philippines, ³De La Salle Araneta University, Philippines</i>)
	11.30 – 11.50	G3 Structural Reasons for School Violence and Education Strategies Janez Krek (<i>University of Ljubljana Faculty of Education, Slovenia</i>)
	11.50 – 12.10	G4 Cultural Education Ahmad Mohammad Battah (<i>The University of Jordan, Jordan</i>)
	12.10 – 12.30	G5 Intercultural and Transcultural Dialogue: Faculty and Staff Experience of Internationalization in Caraga State University Abao Ma. Elsa Rose A. (<i>De la Salle Araneta University, Philippines</i>)
12.30 – 13.30	Networking Lunch	

TECHNICAL SESSION 12	MATHEMATICS EDUCATION III		
	Friday, 14 th June 2019 10.50 to 12.30 Morakot I (12 th Floor)		
	Chaired by Dr. Rose Atieno Opiyo (<i>Masinde Muliro University of Science and Technology, Kenya</i>)		
	10.50 – 11.10	B11	Exploring of Content Knowledge, Pedagogical Knowledge among Preschool Teachers and Application of Visual, Audio and Kinesthetics (VAK) Approach for Addition Topic in Early Mathematics Norhaizian Binti Seman, Aliza Binti Alias, Effandi Zakaria (<i>Universiti Kebangsaan Malaysia, Malaysia</i>)
	11.10 – 11.30	B12	Supporting Students in Making Conjectures: Enhancing Mathematical Discourse through the Theory of Didactic Situations Macayayong M., Erepol C., Geronimo R., Justimbaste B., Mendoza S., Elipane L. (<i>De La Salle University, Philippines</i>)
	11.30 – 11.50	B13	Derivation of the Permutation Formula: A Lesson Study Quiambao Jovit N., Francisco Dannielle Marie D., Alcantara Allard Jan, Cosme Robert Gabriel, Amarela Charlie Y., Elipane Levi, (<i>Treston International College, Philippines</i>)
	11.50 – 12.10	B14	Mathematical Models in Predicting Retention of STEM Students in Pre-Calculus Barroso Norman C. (<i>Philippine Normal University, Philippines</i>)
	12.10 – 12.30	B15	Exploring Teaching using Concept Attainment Strategy (CAS) in Teaching Mathematical Propositions Adonis M.L.V., Baskial R.M., Detecio M.E., Magcuyao D.A.H., Roxas D.J., Siducon A.J., Elipane L.M. (<i>Philippine Normal University, Philippines</i>)
12.30 – 13.30	Networking Lunch		

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TECHNICAL SESSION 13	CLASSROOM TECHNIQUES, CURRICULUM DESIGN, E- LEARNING AND BLENDED LEARNING		
	Friday, 14 th June 2019 10.50 to 12.50 Ampawa I (10 th Floor)		
	Chaired by Dr. Catherine M. Aurah (<i>Masinde Muliro University of Science and Technology, Kenya</i>)		
	10.50 – 11.10	H1	Improving Learning Acquisition of Students using Peer-Mediated Support Strategies in Teaching Research <i>Santos J.M. (Bulacan State University, Philippines)</i>
	11.10 – 11.30	H2	Problem Solving in Theory and Practice <i>Tatjana Hodnik (University of Ljubljana, Slovenia)</i>
	11.30 – 11.50	H3	The Impact of Virtual Laboratory on Learners' Intrinsic Motivation <i>Signo C.J., Dimo-os R. (Philippine Normal University, Philippines)</i>
	11.50 – 12.10	H4	Creating Authentic Blended Learning Assessments using the Flipped Learning Modality <i>Leah Marie O. Tumlos-Castillo (De La Salle Santiago Zobel, Philippines)</i>
	12.10 – 12.30	H5	Effectiveness of Flipped Classroom Instructions to Enhance the Competencies in Algebra: Blended Learning Application in Sri Lankan Context <i>K.A. Vidyanjalie Abeygunawardena, M.V. Vithanapathirana (University of Colombo, Sri Lanka)</i>
	12.30 – 12.50	H6	Interactivity in Blended Learning and its Influence on Students' Metacognitive Awareness <i>Limueco J.M., Prudente M.S. (De La Salle University, Philippines)</i>
12.50 – 13.30	Networking Lunch		

TECHNICAL SESSION 14	ICT-BASED EDUCATION	
	Friday, 14 th June 2019 10.50 to 12.30 Ampawa II (10 th Floor)	
	Chaired by Dr. KinHo Chan (<i>Fulbright University Vietnam, Vietnam</i>)	
	10.50 – 11.10	J1 Challenges in Teaching with Virtual Learning Environment (VLEs): The Case of DLSAU Faculty <i>Generato J.V.S. (De La Salle Araneta University, Philippines)</i>
	11.10 – 11.30	J2 Learning On The Go: An Investigation of Filipino Students' Intention to Use Blackboard Mobile Learn <i>Ezra S. Aguilar^{1,2}, Maricar S. Prudente² (¹University of Santo Tomas Manila, Philippines, ²De la Salle University Manila, Philippines)</i>
	11.30 – 11.50	J3 Educational Technology Preference among Students from Both Public and Private Schools in the Philippines <i>Wan Jin, Maricar S. Prudente, Socorro E. Aguja (De La Salle Araneta University, Philippines)</i>
	11.50 – 12.10	J4 As Good as the Real Thing?: The Impact of using a Simulated, Virtual Classroom on Teacher Confidence <i>Brown B. M., Lortal P., Marx R., Salter L. (Bath Spa University, United Kingdom)</i>
	12.10 – 12.30	J5 The Effect of Geospatial Technology on Students' Academic Performance <i>Ramalloso Jenifer M.¹, Claveria Rene Juna R.², Soto Cornelia C.², (¹Western Mindanao State University, Philippines, ²Ateneo de Manila University, Philippines)</i>
12.30 – 13.30	Networking Lunch	

KEYNOTE WORKSHOP	Friday, 14th June 2019 13.30 to 15.00 Paetai Room (14th Floor)	
	13.30 – 15.00	"Digital Technology for Education" <i>Mr. Tim Bergmeier (Director, InPlace (Asia) QuantumIT)</i>

PLENARY SPEECH	Friday, 14th June 2019 15.00 to 15.30 Paetai Room (14th Floor)	
	15.00 – 15.30	<p>"How to Increase the Quality of Teacher Education and School Practice with Developing Research Competencies of Prospective Teachers"</p> <p>Prof. Dr. Janez Vogrinc (<i>Dean, Faculty of Education, University Ljubljana, Slovenia</i>)</p>

TECHNICAL SESSION 15	SCIENCE EDUCATION IV	
	Friday, 14 th June 2019 15.30 to 17.10 Paetai Room (14 th Floor)	
	Chaired by Dr. Voltaire Mistades (<i>De La Salle University, Philippines</i>)	
	15.30 – 15.50	<p>A17 Teaching Organic Nomenclature using Jigsaw Puzzles</p> <p>Rahon Christy Ann M.^{1,2}, Prudente Maricar S.³ (¹<i>Mariano Marcos State University, Philippines</i>, ^{2,3}<i>De La Salle University, Philippines</i>)</p>
	15.50 – 16.10	<p>A18 Assessing Grade 12 Science, Technology, Engineering, and Mathematics (STEM) Students' Physics Motivation and Nature of Science Understanding</p> <p>Baltazar M.H.^{1,2}, Prudente M.S.², Roleda L.S.² (¹<i>Bacoor National High School, Philippines</i>, ²<i>De La Salle University, Philippines</i>)</p>
	16.10 – 16.30	<p>A19 Use of Lecture Demonstrations in Chemistry Classes in Elementary and Secondary School</p> <p>Luka V., Seamus D., Iztok D. (<i>University of Ljubljana, Slovenia</i>)</p>
	16.30 – 16.50	<p>A20 Emerging Issues in Science Classroom Teaching using Technology: A Lesson Study</p> <p>Efraim C. Fernando, Rosalie D. Esteban, Myra Z. Magno, Christianne Hana Concepcion G. Canonizado, Gregorio T. Mueco, Delio B. Sannadan, Levi E. Elipane (<i>Philippine Normal University, Philippines</i>)</p>
	16.50 – 17.10	<p>A21 Exploring Students' Conceptual Understanding, Metacognitive Awareness and Self-Regulated Learning Strategies towards Chemistry using Pogil Approach</p> <p>Cascolan Honelly Mae S. (<i>Pangasinan State University, Philippines</i>)</p>
17.10 – 17.30	Evening Refreshments	

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PLENARY SPEECH	Friday, 14th June 2019 15.00 to 15.30 Morakot I (12th Floor)	
	15.00 – 15.30	"Emerging Technologies in Higher Education" Dr. Lt. Col. Victor Emilio Villavicencio Alvarez (<i>General Academic Vice-Rector, Universidad de las Fuerzas Armadas – ESPE, Ecuador</i>)

TECHNICAL SESSION 16	STUDENT EXPERIENCE		
	Friday, 14 th June 2019 15.30 to 17.10 Morakot I (12 th Floor)		
	Chaired by Dr. Rose Atieno Opiyo (<i>Masinde Muliro University of Science and Technology, Kenya</i>)		
	15.30 – 15.50	K1	Student Identities as Curricular Co-Designers: A Grounded Theory Approach Chan K-H. , Stacey P.L. (<i>Fulbright University, Vietnam</i>)
	15.50 – 16.10	K2	Assessment of Academic Library Learning Spaces: Basis for Innovating a Hybrid Library Dela Cruz L.A., Aguja S.E., Prudente M.S. (<i>De La Salle Araneta University, Philippines</i>)
	16.10 – 16.30	K3	Risk Factors of Helminthiasis in Pre-School Children in Kakamega, Kenya Omukunda E.N., Werunga K. (<i>Masinde Muliro University of Science and Technology, Kenya</i>)
	16.30 – 16.50	K4	The Influence of Children’s Media Contact on School Adjustment of Transition to Primary School Yanfang Zhou, Atsushi Nanakida (<i>Hiroshima University, Japan</i>)
	16.50 – 17.10	K5	Students’ Satisfaction to Services of KMITL’s Liberal Arts Personnel Pattaraporn Thampradit, Wiruch Pumjarean (<i>King Mongkut’s Institute of Technology Ladkrabang (KMITL), Thailand</i>)
	17.10 – 17.30	Evening Refreshments	

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TECHNICAL SESSION 17	HIGHER EDUCATION I	
	Friday, 14 th June 2019 15.30 to 17.10 Ampawa I (10 th Floor)	
	Chaired by Dr. Tatjana Hodnik (<i>University of Ljubljana, Slovenia</i>)	
	15.30 – 15.50	L1 Student Engagement in a Gamified Physics Course Amado C.M., Roleda L.S. (<i>De La Salle University, Philippines</i>)
	15.50 – 16.10	L2 Apag ³ : A Framework for a Holistic Formation Program of Personnel in an HEI Sepeda B.N, Lumanlan P.T. (<i>De La Salle Araneta University, Philippines</i>)
	16.10 – 16.30	L3 Pitfalls of Tourism Graduate Students in Presenting the Ingredients of Research Proposals Sutanto Leo (<i>STP Bandung, Indonesia</i>)
	16.30 – 16.50	L4 Impact of Problem-based Learning in Developing Logical and Analytical Thinking Skills of Sri Lankan Undergraduates J.T. Weeraratna (<i>General Sir John Kotelawala Defence University, Sri Lanka</i>)
	16.50 – 17.10	L5 Serial Multiple Mediation of Knowledge Resources, Design and Application in the Relationship between Codified Knowledge and Effectiveness in Higher Education Institutions in Kenya Bernard K. Nassiuma ¹ , Lianda W. Mauyo ² (<i>¹Moi University, Kenya, ²Masinde Muliro University of Science and Technology, Kenya</i>)
17.10 – 17.30	Evening Refreshments	

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TECHNICAL SESSION 18	SPECIAL AND INCLUSIVE EDUCATION		
	Friday, 14 th June 2019 15.30 to 17.10 Ampawa II (10 th Floor)		
	Chaired by Dr. Catherine M. Aurah (<i>Masinde Muliro University of Science and Technology, Kenya</i>)		
	15.30 – 15.50	M1	Mainstreaming of Hearing Impaired Students with Regular Students: A Comparative Study <i>Gaurano M.L. (Lucena City National High School, Philippines)</i>
	15.50 – 16.10	M2	Teachers' Perspectives on Differentiating Instructions for Students with Intellectual Disability in Inclusive Classroom <i>K.G. Ambady¹, Jenny R. Root², Sherly Mathew³, P.S. Sukumaran¹ (¹Mahatma Gandhi University, India, ²Florida State University, USA, ³Nirmala Sadan Training College for Special Education, India)</i>
	16.10 – 16.30	M3	The New Big-Five of Personality & Autism Spectrum Disorder <i>Khan A. (Longwood University, USA)</i>
	16.30 – 16.50	M4	Teachers' Views on the Digital Divide in Inclusive Classrooms: A SWOT Analysis <i>Mohammed Alzyoudi (United Arab University, UAE)</i>
	16.50 – 17.10	M5	A Mixed Method Study of an Intervention Program for Students With Dyslexia in a Primary School <i>Elazab M. Elshazly (United Arab University, UAE)</i>
17.10 – 17.30	Evening Refreshments		

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TECHNICAL SESSION 19	SCIENCE EDUCATION V		
	Friday, 14 th June 2019 17.30 to 18.30 Paetai Room (14 th Floor)		
	Chaired by Dr. Voltaire Mistades (<i>De La Salle University, Philippines</i>)		
	17.30 – 17.50	A22	<p>Training Design for Enhancing the PCK and Physics Problem Solving Skills of Non-Physics Major Science Teachers</p> <p>C.I. Mulig-Cruz^{1,2}, I.C.V. Mordeno², G.P. Liwanag², A.G.L. Silva², M.S. Prudente¹ (¹<i>De La Salle University, Philippines</i>, ²<i>Mindanao State University – Iligan Institute of Technology, Philippines</i>)</p>
	17.50 – 18.10	A23	<p>Exploring Students' Perceptions and Conceptual Understanding in a Next Generation Blended Learning (NxGBL) Physics Class</p> <p>Magalong Salvador John M.¹, Palomar Brando C.² (¹<i>De La Salle Santiago Zobel School, Philippines</i>, <i>Philippine Normal University, Philippines</i>)</p>
18.10 – 18.30	A24	<p>Gamified Instruction and Its Effect to Student Achievement in Physics</p> <p>Tolentino Analyn N., Roleda Lydia S., (<i>De La Salle University, Philippines</i>)</p>	

TECHNICAL SESSION 20	HIGHER EDUCATION II		
	Friday, 14 th June 2019 17.30 to 18.50 Ampawa I (10 th Floor)		
	Chaired by Dr. Cascolan Honelly Mae (<i>Pangasinan State University, Philippines</i>)		
	17.30 – 17.50	L6	<p>Information Seeking Behaviour of Undergraduates about Higher Educational Opportunities in Sri Lanka: Online or Offline?</p> <p>K.A. Vidyanjalie Abeygunawardena (<i>University of Colombo, Sri Lanka</i>)</p>
	17.50 – 18.10	L7	<p>1-3-5 Rating Technique and Its Effects on the Oral and Written Competencies in English of the BEED Students in Marinduque State College, Philippines</p> <p>Dr. Annalyn J. Decena (<i>Marinduque State College, Philippines</i>)</p>
18.10 – 18.30	L8	<p>Establishing Research Teaching Nexus: A Case Study of Faculty Awareness, Involvement And Perceptions</p> <p>Carandang J.S.R., Yasa T.P. (<i>Marinduque State College, Philippines</i>)</p>	

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	18.30 – 18.50	L9	<p>Moocs: a Complementary Tool for Basic General Education in Ecuador</p> <p>Marco Yamba-Yugsi¹, Lourdes Atiaja Atiaja², Patricio Serrano Escobar² (¹Universidad Católica de Cuenca, Ecuador, ²Universidad de las Fuerzas Armadas ESPE, Ecuador)</p>
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CONFERENCE CLOSURE	Friday, 14th June 2019 18.50 to 19.10 Paetai Room (14th Floor)	
	18.50 – 19.20	Conference Concluding and Awarding Ceremony
	19.20 – 19.30	<p>Vote of Thanks</p> <p>Mr. Isanka P. Gamage (<i>Co-Founder & Managing Director - The International Institute of Knowledge Management (TIKM), Sri Lanka</i>)</p>

Conference Chair

.....
Dr. Brian D. Beitzel
 (State University of New York College at Oneonta, USA)

Keynote Speaker

.....
Mr. Tim Bergmeier
 (Director, InPlace (Asia) QuantumIT)

Conference Convener

.....
Mr. Isanka P. Gamage
 (The International Institute of Knowledge Management, Sri Lanka)

Conference Secretary

.....
Ms. Natashya Kodituwakku
 (The International Institute of Knowledge Management, Sri Lanka)



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Evaluation Panel

Dr. Brian D. Beitzel

(State University of New York College at Oneonta, USA)

Prof. Dr. Janez Vogrinc

(University Ljubljana, Slovenia)

Assoc. Prof. Sr Dr. Zakaria Mohd Yusof

(Universiti Teknologi Malaysia, Malaysia)

Dr. Malay R. Dave

(JIS College of Engineering, India)

Dr. Levi Esteban

(Philippine Normal University, Philippines)

Dr. Chaturong Thanaseelangun

(Nakhon Ratchasima Rajabhat University, Thailand)

Dr. Festus Kelonye

(Kibabii University, Kenya)