

## Curriculum Vitae

**Name:** Warabhorn Preechaporn

**Date of birth:** January 25, 1959

**Education:** **Degree of Philosophy (Computational Science, 2007)**  
Walailak University, Thailand  
**Master of Science (Mathematics Teaching, 1989)**  
Chiang Mai University, Thailand  
**Bachelor of Science (Education, 1981)**  
Prince of Songkhla University, Thailand

**Experience:**

29/10/2021 – Present **Mathematics Education Specialist (Training & Research Division)**  
Regional Centre for Education in Science and Mathematics (RECSAM), Penang, Malaysia

23/03/2017 – 28/10/2021 **Mathematics Education Specialist (Training Programme Division)**  
Regional Centre for Education in Science and Mathematics (RECSAM), Penang, Malaysia

16/05/2016 – 15/03/2017 **Mathematics Lecturer**  
Nakhon Si Thammarat Seaboard Industrial College,  
Thailand

11/05/2015 – 31/03/2016 **Secondary Mathematics Teacher**  
Benjamarachutit School, Nakhon Si Thammarat, Thailand.

15/03/2011 – 15/01/2015 **Mathematics Education Specialist (Training Programme Division)**  
Regional Centre for Education in Science and Mathematics (RECSAM), Penang, Malaysia

13/02/2010 – 30/09/2010 **Secondary Mathematics Teacher**  
Yothin Bamrung School, Nakhon Si Thammarat, Thailand

01/10/2009 – 12/02/2010	<p><b>Mathematics Education Specialist (Training Programme Division)</b></p> <p>Southeast Asian Minister of Education Organisation, Regional Centre for Education in Science and Mathematics (SEAMEO RECSAM), Penang, Malaysia</p>
13/02/2008-01/10/2009	<p><b>Mathematics Education Specialist (Research and Development Division)</b></p> <p>Southeast Asian Minister of Education Organisation, Regional Centre for Education in Science and Mathematics (SEAMEO RECSAM), Penang, Malaysia</p>
01/02/1982-12/02/2008	<p><b>Secondary Mathematics Teacher</b></p> <p>Yothin Bamrung School, Nakhon Si Thammarat, Thailand</p>

## **References and information**

### **Conducting Courses/Workshops:**

#### **2021**

- As a course supervisor, TCTP-JICA-MTCP course, on ‘Fostering STEM Education to Promote Successful Learning in Mathematics Classrooms’ for Mathematics Teachers/Educators from Nigeria and Zambia, on 18<sup>th</sup> -29<sup>th</sup> October, 2021.
- As a facilitator, Webinar Series on ‘Introduction to the Basic Computational Thinking’ for Primary Mathematics Teachers on 9<sup>th</sup> and 21<sup>st</sup> September, 2021.
- As a facilitator, In-House Workshop on ‘Producing Creative Video for Science and Mathematics Education’ for Academic staff on 13<sup>th</sup>, 15<sup>th</sup> and 17<sup>th</sup> September, 2021.
- As a course facilitator, Regular Course conducted on “RC-PM-146-2: Developing Conceptual Understanding in Primary Mathematics through Standard-Based Curriculum and Best Pedagogical Practices” for Mathematics Teachers/Educators, on 02<sup>nd</sup>, 04<sup>th</sup> and 16<sup>th</sup> August, 2021.
- As a course facilitator, Regular Course conducted on “RC-SM-145-4: Developing Conceptual Understanding in Secondary Mathematics through Standard-Based Curriculum and Best Pedagogical Practices” for Mathematics Teachers/Educators, on 24<sup>th</sup> -25<sup>th</sup> June, 2021.
- As a course supervisor, Regular Course conducted on “RC-SM-144-4: Purposeful Assessment in Secondary Mathematics Classrooms” for Mathematics Teachers/Educators, on 15<sup>th</sup> February – 12<sup>th</sup> March, 2021.

## 2020

- As a co-facilitator, conducted a workshop on “Writing An Introduction to Research Article” on 22<sup>nd</sup> December, 2020 organised by SEAMEO RECSAM
- As a facilitator, conducted a workshop on “Enhancing Computational Thinking Skills for Problem Solving in Mathematics Classroom” for Mathematics Teachers/Educators, on 22<sup>nd</sup> – 23<sup>rd</sup> September, 2020.
- As a facilitator, conducted a short course on “Enhancing 21<sup>st</sup> Century Learning through Science and Mathematics” for Benchamaracharungsarit School, Thailand on 20<sup>th</sup> – 24<sup>th</sup> January, 2020.
- As a facilitator, conducted a short course on “Enhancing 21<sup>st</sup> Century Learning through Science and Mathematics” for Benchamaracharungsarit School, Thailand on 13<sup>th</sup> – 17<sup>th</sup> January, 2020.

## 2019

- As a facilitator, conducted a short course on “Learning Science and Mathematics through Inquiry Approach” for Datdaruni School, Chachoengsao, Thailand on 14<sup>th</sup> – 18<sup>th</sup> October, 2019.
- As a facilitator, conducted a short course on “Developing 21<sup>st</sup> Century Skills through Science, Technology, Engineering and Mathematics (STEM)” for Benchamaratrungsarit 2 School, Chachoengsao, Thailand on 7<sup>th</sup> – 11<sup>th</sup> October, 2019.
- As a facilitator, conducted a short course on “Developing Critical Thinking and Reasoning in Mathematics through Problem Solving” for Matthayom Watnairong School, Bangkok, Thailand on 1<sup>st</sup> – 3<sup>rd</sup> October, 2019.
- As a facilitator, conducted a regular course on “Mathematical Problem Solving in Real-World Situation for Secondary Mathematics Classrooms” for Southeast Asian participants, on 5<sup>st</sup> – 30<sup>th</sup> August, 2019.
- As a facilitator, conducted a workshop on “Enhancing Problem Solving and Understanding in Mathematics through GeoGebra” for Southeast Asian participants, on 28<sup>th</sup> – 30<sup>th</sup> August, 2019.
- As a course coordinator and facilitator, conducted a short course on “Enhancing Active Learning through STEM Education” for Kanchanapisekwittayalai Nakhonpathom School, Thailand on 29<sup>th</sup> – 31<sup>st</sup> July, 2019.
- As a facilitator, conducted a customised course on “Enhancing Competencies of Mathematics Teaching” for Kamphaeng Phet Rajabhat University, Thailand on 6<sup>th</sup> – 17<sup>th</sup> May, 2019.
- As a facilitator, conducted a workshop on “Enhancing Science and Mathematics Learning in the STEM Environment” for Triam Udom Suksa Nakhon Si Thammarat

School, Thailand on 2<sup>nd</sup> – 3<sup>rd</sup> May, 2019.

- As a course supervisor, conducted a regular course on “Enhancing Primary Mathematics Learning in the STEM Environment” for Southeast Asian participants, on 1<sup>st</sup> – 26<sup>th</sup> April, 2019.
- As a facilitator, conducted a short course on “Enhancing Primary Mathematics Learning in the STEM Environment” for Indonesian participants, on 11<sup>th</sup> – 29<sup>th</sup> March, 2019.
- As a facilitator, conducted a training course on “Capacity Development in Gender-Responsive Pedagogy in STEM Education” for Lao PDR participants, on 11<sup>th</sup> - 22<sup>nd</sup> February, 2019.
- As a facilitator, conducted a workshop on “Enhancing Communication in the 21<sup>st</sup> Century through Science and Mathematics” for Benchamaracharungsarit School, Thailand, on 15<sup>th</sup> -18<sup>th</sup> and 22<sup>nd</sup> - 25<sup>th</sup> January, 2019.

## **2018**

- As a facilitator, conducted a workshop on “Developing 21<sup>st</sup> Century Skills through Science, Mathematics and Technology” for Teeratada Phitsanulok School, Thailand, on 21<sup>st</sup> - 26<sup>th</sup> January, 2018.
- As a facilitator, conducted a workshop on “Enhancing Science and Mathematics Teaching and Learning through Continuing Professional Development” for Pramandanijjanukroh School, Thailand, on 12<sup>th</sup> -16<sup>th</sup> March, 2018.
- As a facilitator, conducted a seminar-workshop on “Developing 21<sup>st</sup> Century Skills through Science, Mathematics and Technology” for Datdaruni School, Chachoengsao, Thailand, on 13<sup>th</sup> -16<sup>th</sup> March, 2018.
- As a course supervisor of Regular Course: RC-SM-142-4 (Enhancing Science, Technology, Engineering and Mathematics (STEM) Learning in Secondary Mathematics Classrooms) on 2<sup>nd</sup> – 27<sup>th</sup> April, 2018.
- As a facilitator of Regular Course: RC-PM-143-2 (Enhancing Primary Mathematics Teaching and Learning through Professional Learning Community) on 2<sup>nd</sup> -27<sup>th</sup> July, 2018.
- As a facilitator of Lao PDR In-Country Training Workshop for Laos Teachers/Educators on “Purposeful Assessment in Primary Mathematics Classrooms” at Kangkai Teacher Training College, Xieng Khoang Province, Lao PDR, on 14<sup>th</sup> - 17<sup>th</sup> August, 2018.
- As a facilitator of Malaysia In-Country Training Workshop for Malaysian Teachers/Educators on “21<sup>st</sup> Century Learning in Science/Mathematics” at SMK Ranche-Ranche, W.P. Labuan, Malaysia, on 24<sup>th</sup> – 28<sup>th</sup> September, 2018.

- As a facilitator, conducted a workshop on “Developing 21<sup>st</sup> Century Skills through Science and Mathematics ” for Benjamarachutit School, Nakhon Si Thammarat, Thailand, on 1<sup>st</sup> – 2<sup>nd</sup> October, 2018.
- As a facilitator, conducted Science and Mathematics camp for students from Assumption Convent Lopburi School, Thailand, on 3<sup>rd</sup> - 5<sup>th</sup> October, 2018.
- As a facilitator, conducted a seminar workshop on “Developing 21<sup>st</sup> Century Skills through Science and Mathematics ” for Datdaruni School, Chachoengsao, Thailand, on 8<sup>th</sup> - 12<sup>th</sup> October, 2018.
- As a facilitator, conducted a seminar workshop on “Developing 21<sup>st</sup> Century Skills through Science, Technology, Engineering and Mathematics (STEM)” for Benchamaratrungsarit School, Chachoengsao, Thailand, on 15<sup>th</sup> - 19<sup>th</sup> October, 2018.
- As a facilitator, conducted a workshop on “Enhancing Communication English through STEM” for students from Hatyaiwittayalai School, Thailand, on 22<sup>nd</sup> – 23<sup>rd</sup> October, 2018.
- As a facilitator, conducted a workshop on “Enhancing Secondary Science/Mathematics Learning in the STEM Environment” for BPG, on 29<sup>th</sup> – 31<sup>st</sup> October, 2018.
- As a facilitator, conducted a workshop on “Enhancing 21<sup>st</sup> Century Skills through Science, Mathematics and Technology” for students from Hatyaiwittayalai School, Thailand, on 7<sup>th</sup> - 9<sup>th</sup> November, 2018.

## **2017**

- Philippines In-Country Training Workshop for Filipino Teachers/Educators: Lesson Study: Promoting Collaborative Lesson Research (CLR) in the Classroom and Continuing Professional Development, at Tanza Oasis Hotel, Tanza, Cavite, Philippines, on 4<sup>th</sup> - 8<sup>th</sup> December, 2017.
- As a facilitator of SMA Camp on “Enhancing Communication English through Science, Mathematics and Technology” for students from Hatyaiwitthaulai school, Thailand, on 9<sup>th</sup> - 10<sup>th</sup> November, 2017.
- As a facilitator of STEM workshop for BPG Batch 5 on 6<sup>th</sup> - 8<sup>th</sup> November, 2017.
- As the committee member in organizing “Penang Science, Technology, Engineering and Mathematics (STEM) Study Contest 2017, on 23<sup>rd</sup> September, 2017.
- As a facilitator of STEM workshop for BPG Batch 2 on 12<sup>th</sup> - 14<sup>th</sup> September, 2017.
- As a facilitator of STEM workshop for BPG Batch 1 on 5<sup>th</sup> - 7<sup>th</sup> September, 2017.
- As a facilitator of EIS Camp on “Enhancing Communication English through Science, Mathematics and Technology” for students from Hatyaiwitthaulai school, Thailand, on 23<sup>rd</sup> - 24<sup>th</sup> October, 2017.

- As a facilitator of a seminar workshop on “Enhancing Communication English through Science, Mathematics and Technology” for Datdaruni school, Chachoengsao, Thailand, on 9<sup>th</sup> - 13<sup>th</sup> October, 2017.
- As a facilitator of a seminar workshop on “Enhancing Communication English through Science, Mathematics and Technology” for Pramandanijjanulroah school, Thailand, on 3<sup>rd</sup> - 5<sup>th</sup> October, 2017.
- As a facilitator of a seminar workshop on “Developing 21<sup>st</sup> Century Skills through Science, Mathematics and Technology for Benchamaratrungsarit 2 school, Chachoengsao, Thailand, on 2<sup>nd</sup> - 6<sup>th</sup> October, 2017.
- As a facilitator of Regular Courses: RC-SM-141-2 (Enhancing Mathematical Thinking in Secondary Classrooms) and RC-SM-141-4 (Enhancing Secondary Mathematics Teaching and Learning through Professional Learning Community), on 3<sup>rd</sup> -28<sup>th</sup> April, 2017, Penang, Malaysia.

#### **2016**

- As a mathematics lecturer at Nakhon Si Thammarat Seaboard Industrial College, Thailand

#### **2015**

- Regular Courses for teachers/educators from Southeast Asian countries, course title: Mathematical Processes for Sustainable Learning in Secondary Classrooms (RC-SM-139-2)” on 6<sup>th</sup> -30<sup>th</sup> April, 2015.

#### **2014**

- Lao PDR In-Country Training Workshop for Lao Teachers/Educators: MAKING SENSE OF SECONDARY SCIENCE THROUGH INQUIRY: Problem-based Learning at Work, Pakse Teacher Training College, Champasak Province, Lao PDR, on 8<sup>th</sup> -12<sup>th</sup> December, 2014.
- Customised Course for Science and Mathematics Educators from Zambia: Enhancing Subjective Learning in the Secondary Science Classroom, Sessions in Zambia 2014, Lusaka and Livingstone, Zambia, on 7<sup>th</sup> – 12<sup>th</sup> July, 2014.
- Customised Course for Science and Mathematics Educators from Zambia: Enhancing Subjective Learning in the Secondary Mathematics Classroom, SEAMEO RECSAM, Penang, Malaysia, on 10<sup>th</sup> -28<sup>th</sup> February, 2014.

#### **2013**

- Customised Courses for Indonesian Secondary Science and Mathematics Educators “21<sup>st</sup> Century Skills in Secondary Mathematics: Enhancing Higher Order Thinking Skills and Integrated Values Education”, SEAMEO RECSAM, Penang, Malaysia, on 21<sup>st</sup> October – 15<sup>th</sup> November, 2013.

- Workshop on “Enhancing 21<sup>st</sup> Century Skills through Meaningful Science and Mathematics Learning” for Students from Yothin Bamrung School (YBS), Nakhon Si Thammarat, Thailand, on 5<sup>th</sup> – 7<sup>th</sup> August, 2013.
- Seminar-Workshop for educators and lecturers from Nakhon Si Thammarat Rajabhat University (NSTRU) on “Enhancing 21<sup>st</sup> Century Skills in Teaching and Learning in Mathematics Classrooms”, on 25<sup>th</sup> – 29<sup>th</sup> March, 2013.
- Regular Course “RC-PM-137-2: Making Real Life Connections and Developing Mathematical Ideas in Primary Classroom” on 29<sup>th</sup> April – 23<sup>rd</sup> May, 2013.
- Workshop for SMK Methodist Boys’ School In-Service Training on “Knowing Me, Knowing You: Harmonising Social Styles among MBS Fraternity for Achieving Excellence through PBL4C”, Penang, Malaysia, on 20<sup>th</sup> April, 2013.

## **2012**

- Customised Course for Kamphaeng Phet Rajabhat University (KPRU) Pre-service Teachers: Effective Strategies for the Primary Mathematics Classrooms, SEAMEO RECSAM, Penang, Malaysia, on 15<sup>th</sup> - 25<sup>th</sup> October, 2012.
- Customised Courses for Indonesian Secondary Science and Mathematics Educators “Enhancing Creative Problem Solving Skills for the 21<sup>st</sup> Century Secondary Mathematics Classroom”, SEAMEO RECSAM, Penang, Malaysia, on 3<sup>rd</sup> -28<sup>th</sup> September, 2012.
- In-Country Course for Brunei on “Making Sense of Secondary School Mathematics in Context through Problem-Based Learning”, Brunei Darussalam, on 28<sup>th</sup> -30<sup>th</sup> May & 2<sup>nd</sup> June, 2012.
- Seminar-Workshop on Enhancing 21<sup>st</sup> Century Skills in Teaching and Learning for Thepsatri Rajabhat University (TRU) and Kamphaeng Phet Rajabhat University (KPRU), Thailand, on 14<sup>th</sup> – 18<sup>th</sup> May, 2012.
- One-day course on “Using Problem-Based Learning the 4 Core Areas (PBL4C) in Education Management”, Jitra, Malaysia, on 26<sup>th</sup> March, 2012.

## **2011**

- Customised Courses for Indonesian Secondary Science and Mathematics Educators “Enhancing Creative Problem Solving Skills for the 21<sup>st</sup> Century Secondary Mathematics Classroom” on 24<sup>th</sup> October – 18<sup>th</sup> November, 2011.

## **2009**

- Regular Course “PM-7112 – Lesson Study: Enhancing Instructional Practices in Primary Mathematics Classroom” on 2<sup>nd</sup> -27<sup>th</sup> March, 2009.

## **2008**

- Regular Course “SM-2163 – Problem-Based Learning in Secondary Mathematics Classroom” on 7<sup>th</sup> July – 1<sup>st</sup> August, 2008.

## **Consultancy Services:**

### **2021**

- As a moderator of International Seminar: Mathematics Learning Innovation in the New Normal Era on 12<sup>th</sup> July, 2021 organised by SEAMEO QITEP in Mathematics, Indonesia.
- As a presenter of Webinar on Revitalising Teacher Education: A short Lecture Series on 28<sup>th</sup> July, 2021 organised by Republic of the Philippines Department of Education (DepED), Philippines.

## **Attending Training/Seminars/Workshops/Colloquiums/Conferences:**

### **2021**

- In- house training Introductory STEM Makerspace Workshop Learning through Making on 01<sup>st</sup> – 03<sup>rd</sup> December, 2021 organised by SEAMEO RECSAM.
- The 11<sup>th</sup> Special STEAM seminar on ‘When mathematics and art are meet in the classroom’, on 30<sup>th</sup> November, 2021 organised by STEAM Experience, Finland and 4DLand, Inc., South Korea.
- The seminar on ‘Enhancing Remote Learning: Enriching Remote Assessments on 25<sup>th</sup> November, 2021 organised by The Head Foundation, Singapore.
- Webinar a Lecture Series, Lecture 4: How to Report on Program Impacts on 22<sup>nd</sup> October, 2021, 2021 organised by SEAMEO STEM-ED.
- Webinar a Lecture Series, Lecture 3: Estimating and Interpreting Treatment Effects on 08<sup>th</sup> October, 2021, 2021 organised by SEAMEO STEM-ED.
- Workshop on Psychometric Criteria in Quantitative Research using Rasch Model Measurement on 08<sup>th</sup> October, 2021 organised by SEAMEO RECSAM.
- Webinar Series on Introduction to the Basic Computational Thinking Skills for Primary Science Teacher on 23<sup>th</sup> September & 01<sup>st</sup> October, 2021 organised by SEAMEO RECSAM.
- Webinar a Lecture Series, Lecture 2: Research Designs to Create Counterfactuals on 09<sup>th</sup> September, 2021 organised by SEAMEO STEM-ED.
- Webinar a Lecture Series, Lecture 1: Introduction to Program Effectiveness Research on 27<sup>th</sup> August, 2021 organised by SEAMEO STEM-ED.
- The Special STEAM seminar on 1) Age of the 2nd Big Discovery on the Big Data Ocean, and 2) How and why, I invented a discovery tool, on 24<sup>th</sup> August, 2021



organised by STEAM Experience, Finland and 4DLand, Inc., South Korea.

- The Special STEAM seminar on 1) The Mathematics of Design, and 2) Faraday 200 Project, on 30<sup>th</sup> July, 2021 organised by STEAM Experience, Finland and 4DLand, Inc., South Korea.
- Webinar on “In the Wake of a Changing Climate: Water Security and Solution” on 13<sup>th</sup> July, 2021 organised by The Head Foundation, Singapore.
- Webinar Series on Bridging the Gaps in Remote Learning: Part 3 – Rehashing Older Technology on 01<sup>st</sup> July, 2021 organised by The Head Foundation, Singapore.
- Workshop on Journal Handling (MyJMS) and Indexing on 30<sup>th</sup> June, 2021 organised by SEAMEO RECSAM.
- Webinar on Statistical Thinking Application in Education on 25<sup>th</sup> June, 2021 organised by SEAMEO RECSAM.
- Webinar Series on Bridging the Gaps in Remote Learning: Part 2 – Using Digital Tools on 24<sup>th</sup> June, 2021 organised by The Head Foundation, Singapore.
- Webinar Series on Bridging the Gaps in Remote Learning: Part 1 - Working with Your Community on 17<sup>th</sup> June, 2021 organised by The Head Foundation, Singapore.
- Designing Innovations in STEAM Education Conference Online on 26<sup>th</sup> – 28<sup>th</sup> May, 2021 organised by Linz STEAM Education, Johannes Kepler University Linz (JKU-Linz), Austria.
- The 6<sup>th</sup> Special STEAM seminar on 20<sup>th</sup> May, 2021 organised by STEAM Experience, Finland and 4DLand, Inc., South Korea.
- The 5<sup>th</sup> Special STEAM seminar on 22<sup>nd</sup> April, 2021 organised by STEAM Experience, Finland and 4DLand, Inc., South Korea.
- The Regional Workshop (Blended-Mode) on Education 4.0: Issues, Challenges and Future Directions towards SEAMEO Priorities and Sustainable Development Goals (SDGs) (Phase 1) on 15<sup>th</sup> – 19<sup>th</sup> March, 2021 organised by SEAMEO RECSAM.
- The online workshop on “Designing an Impactful Online Learning Experience” on 22<sup>nd</sup> January, 2021 organised by SEAMEO RECSAM.

## **2020**

- The workshop on “Designing an Impactful Online Learning Experience” on 11<sup>th</sup> December, 2021 organised by SEAMEO RECSAM.
- The 5<sup>th</sup> Global Citizenship Education (GCED) online Conference on 3<sup>rd</sup> – 5<sup>th</sup> November, 2020 organised by UNESCO APCEIU (United Nations Educational, Scientific and Cultural Organisation Asia-Pacific Centre of Education for International Understanding).
- The workshop on “SEAMEO RECSAM Protocol” on 21<sup>st</sup> – 22<sup>nd</sup> October, 2020

organised by SEAMEO RECSAM.

- The online Conference on “Ensuring Quality Early Life for food and nutrition” on 9<sup>th</sup> - 11<sup>th</sup> September, 2020, organized by SEAMEO RECFON.
- The online workshop on “Extraction of Banana DNA & Creating DNA-Model” on 9<sup>th</sup> September, 2020 organised by SEAMEO RECSAM.
- The workshop on “Characterisation Ion-Sensors Transducers and Recognition Components” on 25<sup>th</sup> - 26<sup>th</sup> August, 2020.
- The Workshop on “Computational Thinking Skills – Unplugged Activities” and “Inquiry Based Learning vs Problem Based Learning in Mathematics Classrooms” on 24<sup>th</sup> - 25<sup>th</sup> June, 2020.
- The Webinar on World Environment Day "COVID-19 Effects on Biodiversity: Science Education Reimagined" on 5<sup>th</sup> June, 2020.
- The Webinar 4 on “Resilient Southeast Asia: COVID-19 Responses and Best Practices” on 14<sup>th</sup> May, 2020.
- The Webinar 3 on “Webex Learning and Mobility in Lockdown: Snapshots of COVID-19 Effect” on 07<sup>th</sup> May, 2020.
- The Webinar 2 on “Making Distance Learning, Open Education Resources and Online Resources Matter during COVID -19 Education Disruptions” on 30<sup>th</sup> April, 2020.
- The Webinar 1 on “Emotional and Psychosocial Health during COVID-19 Pandemic” on 29<sup>th</sup> April, 2020.
- The Co-impact online preparation meeting, on 27<sup>th</sup> April, 2020
- The workshop on “Integrating Robotics in STEM Learning” on 02<sup>nd</sup> - 04<sup>th</sup> March, 2020.
- The workshop on “Sustainability and Ecobricks: How can You Get Involved?” on 16<sup>th</sup> January, 2020.

## **2019**

- The 8<sup>th</sup> International Conference on Science and Mathematics Education (CoSMEd 2019) “Aligning STEM Education with Education 4.0 and Sustainable Development Goals” & TIMSS International Symposium 2019 at Penang, Malaysia on 11<sup>th</sup> – 15<sup>th</sup> November, 2019.
- The 4<sup>th</sup> International Conference on Global Citizenship Education (GCED): Platform on Pedagogy and Practice Reconciliation, Peace, and Global Citizenship” at Seoul, Republic of Korea on 3<sup>rd</sup> – 4<sup>th</sup> September, 2019.

## **2018**

- The workshop on “Fostering Imagination and Critical Thinking in Engineering

Design Process: A Challenge to STEM Education” on 6<sup>th</sup> – 8<sup>th</sup> February, 2018.

- The workshop on “Improving Science Learning through Inquiry-Based Science Education” on 13<sup>th</sup> – 14<sup>th</sup> March, 2018.
- The workshop on “Enhancing Creativity through Transdisciplinary Mathematics Education” on 27<sup>th</sup> – 28<sup>th</sup> August, 2018.
- The workshop on “GeoGebra” at Bangkok, Thailand, on 21<sup>st</sup> October, 2018.
- The colloquium on “Design of Transdisciplinary Inquiry-Based Learning Sequence” and “Where is Math, Engineering, Art?” on 12<sup>th</sup> November, 2018.
- The workshop on “SEAMEO Basic Education Standards (SEA-BES) Phase 2 (b): Teaching to Transform: 21<sup>st</sup> Century Skills and Design Thinking in STEM Contexts Regional Workshop” on 13<sup>th</sup> – 16<sup>th</sup> November, 2018.

### **2017**

- 7<sup>th</sup> International Conference on Science and Mathematics Education (CoSMEd 2017) “Humanising STEM Education for Sustainable Development Goals in the 21<sup>st</sup> Century” on 13<sup>th</sup> – 17<sup>th</sup> November, 2017.
- The workshop on “Embracing Technology to Engage Learning” on 2<sup>nd</sup> – 3<sup>rd</sup> October, 2017.
- The workshop on “Enhancing Teaching and Learning of Mathematics through Lesson Study: The Collaborative Lesson Research (CLR) and Teaching through Problem Solving” on 12<sup>th</sup> – 13<sup>th</sup> July, 2017.
- SEAMEO Basic Education Standards (SEA-BES): Regional Consultative Meeting and Workshop for the Finalisation of Common Core Regional Learning Standards (CCRLS) in Science and Mathematics, on 28<sup>th</sup> – 30<sup>th</sup> March, 2017 at SEAMEO RECSAM, Penang, Malaysia.

### **2013**

- 5<sup>th</sup> International Conference on Science and Mathematics Education “Empowering the Future Generation through Science and Mathematics Education” on 11<sup>th</sup> – 14<sup>th</sup> November, 2013.
- International Workshop on “Capacity and Network Project (CANP) Southeast Asia” on 14<sup>th</sup> – 25<sup>th</sup> October, 2013 at Phnom Penh, Cambodia.
- Southeast Asia Regional Standards for Mathematics Teachers (SEARS-MT) Workshop 2, on 1<sup>st</sup> – 5<sup>th</sup> July, 2013 at SEAMEO RECSAM, Penang, Malaysia.
- Workshop on “A magical creativity in Mathematics Education” on 6<sup>th</sup> – 7<sup>th</sup> May, 2013 at SEAMEO RECSAM
- Southeast Asia Regional Standards for Mathematics Teachers (SEARS-MT) Workshop 1, on 13<sup>th</sup> – 14<sup>th</sup> March, 2013 at SEAMEO RECSAM, Penang, Malaysia.

- Seminar “Teacher Standards and the Teaching of Mathematics”, on 12<sup>th</sup> March, 2013 at SEAMEO RECSAM.

## **2012**

- The 12<sup>th</sup>. International Congress on Mathematical Education, on 8<sup>th</sup>. – 15<sup>th</sup>. July, 2012 at COEX, Seoul, Korea.
- “Influencing and Persuading: A Fundamental Skill of a Leader” on 9<sup>th</sup> March, 2012 at Novotel Hotel, Kuala Lumpur, Malaysia, by Ian R. Thomson Certified Master Coach, Member of the International Coaching Council.
- “Primary Science and Mathematics Teacher Educators Training” on 29<sup>th</sup> January – 08<sup>th</sup> February, 2012, JICA Chubu, Nagoya, Japan, JICA sponsorship. Dr. Hiroyuki KUNO, Aichi University of Education (AUE), organized the training.

## **2011**

- Kelas Terbuka Lesson Study Kebangsaan 2011, on 12<sup>th</sup> -14<sup>th</sup> December, 2011.
- 4<sup>th</sup> International Conference on Science and Mathematics Education “Transforming School Science and Mathematics Education” on 15<sup>th</sup> – 17<sup>th</sup> November, 2011.
- The workshop on Takakura Home Method of Composting, on 28<sup>th</sup> - 29<sup>th</sup> July, 2011.
- The workshop on how to use Endnotes software, on 27<sup>th</sup> July, 2011.
- Seminar on Utilising the TIMSS to Improve Teaching and Learning in the Mathematics Classroom and the Curriculum, on 7<sup>th</sup> June, 2011
- Introduction to First Aid and Cardio Pulmonary Resuscitation, on 31<sup>st</sup> March, 2011
- A Magical Workshop on Creativity in Mathematics Education, on 11<sup>th</sup> -12<sup>th</sup> April, 2011.

## **2010**

- Intel Teach Program Essentials Course, on 25<sup>th</sup> -29<sup>th</sup> January, 2010

## **2009**

- Serious Game workshop, on 26<sup>th</sup> November, 2009.
- Total Quality Management (TQM), on 19<sup>th</sup> -20<sup>th</sup> August, 2009.
- Excel in Mathematics through Learning with Excel, on 20<sup>th</sup> -21<sup>st</sup> July, 2009.
- Training of Trainers: Making it (the GSP) Work in the Classrooms, on 6<sup>th</sup> -17<sup>th</sup> July, 2009.
- SMART interactive Teaching workshop, on 24<sup>th</sup> June, 2009.
- Climate Change Awareness Seminar for School Administrators, Community Leaders and General Public, on 23<sup>rd</sup> -24<sup>th</sup> June, 2009.
- Constructive Assessment or Testing to Destruction?, on 8<sup>th</sup> -9<sup>th</sup> June, 2009.
- A Magical workshop on Creativity in Mathematics Education, on 25<sup>th</sup> -26<sup>th</sup> March, 2009.

- Joint RECSAM/ICASE Regional Seminar “The Way Forward for Science and Technology Education: Implications for Policy Makers”, on 16<sup>th</sup> – 19<sup>th</sup> February, 2009.

## 2008

- National Seminar on Lesson Study: The Japanese Lesson Study Model as a Means to Improve Teacher’s Knowledge in Science and Mathematics, on 21<sup>st</sup> -22<sup>nd</sup> August, 2008.
- Developing Student’s Mathematical Understanding through Conversation, on 21<sup>st</sup> - 23<sup>rd</sup> June, 2008.
- Like Doctor, Like Teacher...Teaching and Assessing for Learning in Science: A Constructivist Model, 16<sup>th</sup> – 18<sup>th</sup> May, 2008.
- Best Practices Using the Geometer’s Sketchpad: Advanced Workshop, on 21<sup>st</sup> – 24<sup>th</sup> April, 2008.
- Problem-Based Learning in Science and Mathematics Classroom: A workshop for Primary science and mathematics educators, on 14<sup>th</sup> – 16<sup>th</sup> April, 2008.

## Publications:

- **Preechaporn, W.**, Devadason, R. P., Wahyudi, Cheah, U. H., & Teoh, B. T. (2012). *The State of use of the Geometer’s Sketchpad in Malaysian secondary schools: A survey report*. Penang: SEAMEO RECSAM.
- Wahyudi & **Preechaporn, W.** (2011). Teachers’ views and perceptions towards the lesson study processes, *Southeast Asian Mathematics Education Journal* 1(1) 41-51.
- **Preechaporn, W.**, Jaroensutasinee, M., Jaroensutasinee, K. & Saeton, J. (2007). Seasonal and Topographical Factors Affecting Breeding Sites of *Culex* Larvae in Nakhon Si Thammarat, Thailand, *Walailak J Sci & Tech* 4(1) 23-39.
- **Preechaporn, W.**, Jaroensutasinee, M. & Jaroensutasinee, K. (2007). Seasonal prevalence of *Aedes aegypti* and *Ae. albopictus* in three topographical areas of southern Thailand, *Enformatika (Transaction on Engineering, Computing and Technology)* **19** 368-372.
- Wongkoon, S., Jaroensutasinee, M., Jaroensutasinee, K., **Preechaporn, W.** & Chumkiew, S. (2007). Larval occurrence and climatic factors affecting DHF incidence in Samui Islands, Thailand, *Enformatika (Transaction on Engineering, Computing and Technology)*; **19** 381-386.
- **Preechaporn, W.**, Jaroensutasinee, M. & Jaroensutasinee, K. (2006). The larval ecology of *Aedes aegypti* and *Ae. albopictus* in three topographical areas of southern Thailand, *Dengue Bulletin*, **30** 204-213.

## Presentation at Conferences/Colloquiums:

- **Preechaporn, W.**, (2021). Computational Thinking through Scratch Programming for Mathematics Problem Solving, (Virtual Oral presentation), *The 9<sup>th</sup> International Conference on Science and Mathematics Education (CoSMEd 2011)*, Penang, Malaysia, November, 8<sup>th</sup> – 10<sup>th</sup> 2021.
- **Preechaporn, W.** & Pagunsan, A. M. (2014). Education Approach Museums as Meeting Points for Communities, *The 6<sup>th</sup> General Conference Asia-Europe Museum Network ASEMUS, Weltmuseum Wien, Vienna, Austria, September, 26<sup>th</sup> -27<sup>th</sup> 2014*.
- **Preechaporn, W.** & Pagunsan, A. M. (2014). Problem-Based Learning the 4 Core Areas (PBL4C): Interdisciplinary Science and Mathematics Learning towards ASEAN Community, *The 4<sup>th</sup> International Conference on Sciences and Social Sciences 2014: Integrated Creative Research for Local Development toward the ASEAN Economic Community (ICSSS 2014)*, Rajabhat Maha Sarakham University, Thailand, September, 18<sup>th</sup>-19<sup>th</sup>, 2014
- Aligaen, J.C., **Preechaporn, W.**, Campbell, C. & Hazura (2013). Appropriate learning environment for the 21<sup>st</sup> century, (Symposium), *The 5<sup>th</sup> International Conference on Science and Mathematics Education (CoSMEd 2013)*, Penang, Malaysia, November, 11<sup>th</sup> – 14<sup>th</sup> 2013.
- **Preechaporn, W.**, Teoh, B.T. & Leong, C.K. (2012). The development and effectiveness of implementing Problem Based-Learning in Education: A RECSAM Experience, *Kolokium Problem-Based Learning (PBL)*, Auditorium Dato' Razali Ismail, Institut Aminuddin Baki, April, 10<sup>th</sup> 2012.
- **Preechaporn, W.**, Teoh, B.T., Leong, C.K. & Kheong, F.H. (2011). Problem-Based Learning the 4 Core Areas (PBL4C): Preparing Children for the Future, (Oral presentation), *The 15<sup>th</sup> UNESCO-APEID International Conference*, Jakarta, Indonesia, December 6<sup>th</sup> – 8<sup>th</sup>, 2011.
- Teoh, B.T., **Preechaporn, W.**, Leong, C.K. & Kheong, F.H. Problem-Based Learning the 4 Core Areas (PBL4C): Identifying and Re-defining Values for Nurturing Creativity in Building a New Nation in Southeast Asia, (Oral presentation), *The 15<sup>th</sup> UNESCO-APEID International Conference*, Jakarta, Indonesia, December, 6<sup>th</sup> – 8<sup>th</sup>, 2011.
- **Preechaporn, W.**, Leong, C.K. & Teoh, B.T. (2011). Visualising Paper Folding with GeoGebra to Explore the Pythagorean Relation Concept, (Oral presentation), *The 4<sup>th</sup> International Conference on Science and Mathematics Education (CoSMEd 2011)*, Penang, Malaysia, November, 15<sup>th</sup> – 17<sup>th</sup> 2011.
- Teoh, B.T., **Preechaporn, W.**, Leong C.K. & Kheong, F.H. (2011). Promoting

Higher Order Thinking Skills (HOTS) and Promoting Learning – Are they in Harmony or in Conflict, (Oral presentation), *The 4<sup>th</sup> International Conference on Science and Mathematics Education (CoSMEd 2011)*, Penang, Malaysia, November, 15<sup>th</sup> – 17<sup>th</sup> 2011.

- Leong, C.K., Teoh, B.T. & **Preechaporn, W.** (2011). Introduction of the Bansho Plan to Primary School Mathematics Teachers: A case Study, (Oral presentation), *The 4<sup>th</sup> International Conference on Science and Mathematics Education (CoSMEd 2011)*, Penang, Malaysia, November 15<sup>th</sup> – 17<sup>th</sup> 2011.
- **Preechaporn, W.** (2009). Trigonometry through the Geometer's Sketchpad (GSP) Make a Difference, (Oral presentation), *The 14<sup>th</sup> Asian Technology Conference in Mathematics (ATCM 2009)*, Beijing, China, December, 17<sup>th</sup> – 21<sup>st</sup> 2009.
- **Preechaporn, W.**, Leong, C.K. & Teoh, B.T. (2009). Enhancing Teaching and Learning of Quadratic Function using GeoGebra, (Oral presentation), *The 14<sup>th</sup> Asian Technology Conference in Mathematics (ATCM 2009)*, Beijing, China, December 17<sup>th</sup> – 21<sup>st</sup> 2009.
- Leong, C.K., **Preechaporn, W.** & Teoh, B.T. (2009). The Dimensionality Analysis of the Specialized Mathematics Open-Ended Questions using The Multidimensionality Model for DIF Framework, (Oral presentation), *The 14<sup>th</sup> Asian Technology Conference in Mathematics (ATCM 2009)*, Beijing, China, December 17<sup>th</sup> – 21<sup>st</sup> 2009.
- Leong, C.K., Teoh, B.T. & **Preechaporn, W.** (2009). GeoGebra: Powerful Tool to Explore in Mathematics, (Oral presentation), *The 14<sup>th</sup> Asian Technology Conference in Mathematics (ATCM 2009)*, Beijing, China, December 17<sup>th</sup> – 21<sup>st</sup> 2009.
- **Preechaporn W.** & Cheah, U. H. (2008). Factors influencing teacher integration of the Geometer's Sketchpad in Teaching Mathematics, (Oral presentation), *The 13<sup>th</sup> Asian Technology Conference in Mathematics (ATCM 2008)*, Bangkok, Thailand, December 15<sup>th</sup> – 19<sup>th</sup> 2008.
- Teoh, B.T. & **Preechaporn W.** (2008). *WebQuest in the pursuit of problem-based learning*, (Oral presentation), *The 13<sup>th</sup> Asian Technology Conference in Mathematics (ATCM 2008)*, Bangkok, Thailand, December 15<sup>th</sup> – 19<sup>th</sup> 2008.
- Wongkoon, S., **Preechaporn, W.**, Jaroensutasinee, M. & Jaroensutasinee, K. (2007). Epidemiological implications on breeding site preference in *Aedes* and *Culex Spp.* in Nakhon Si Thammarat, Thailand, (Oral presentation), *The 33<sup>rd</sup> Annual National Symposium on Computational Science and Engineering (ANSCSE-33)*, Nakhon Si Thammarat, Thailand, October 29<sup>th</sup>-31<sup>st</sup> 2007.
- **Preechaporn, W.**, Jaroensutasinee, M. & Jaroensutasinee, K. (2007). Seasonal

prevalence of *Aedes aegypti* and *Ae. albopictus* in three topographical areas of southern Thailand, (Oral presentation), *The 19<sup>th</sup> International Conference on Computer, Information and Systems Science and Engineering (CISE 2007)*, Bangkok, Thailand, January 29<sup>th</sup>-31<sup>st</sup> 2007.

- **Preechaporn, W**, Jaroensutasinee, M. & Jaroensutasinee, K. (2006). Topography affecting key breeding sites of *Aedes aegypti* and *Ae. albopictus* in Thailand, (Oral presentation), *The 10<sup>th</sup> Annual GLOBE Conference, Phuket, Thailand, July 30<sup>th</sup>-August 4<sup>th</sup> 2006*.
- **Preechaporn, W**, Jaroensutasinee, K. (2004). Visualization of NOGAPS wind data, (Oral presentation), *The 30<sup>th</sup> Congress on Science and Technology of Thailand (STT 2004)*, Bangkok, Thailand, October 19<sup>th</sup>-21<sup>st</sup>.
- **Preechaporn, W**, Jaroensutasinee, K. (2004). Visualization of Wind Data, (Oral presentation), *The 8<sup>th</sup> Annual National Symposium on Computational Science and Engineering (ANSCSE-8)*, Nakhonratchasima, Thailand, July 21<sup>st</sup>-23<sup>rd</sup> 2004.