



Chaninan Pruekpramool, Ed.D.

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Academic background

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| 2006- 2011 | Doctor of Education (Ed.D.) in Science Education from Science Education Center, Srinakharinwirot University, Bangkok, Thailand |
| 2008-2009 | Visiting scholar at State university of New York at Cortland (SUNY Cortland), New york, USA |
| 2005-2006 | Graduate Diploma in Teaching Science Profession from Faculty of Education, Kasetsart University, Bangkok, Thailand |
| 2000-2004 | Bachelor of Science in Physics (2nd class honor) from Department of Physics, Faculty of Science, Kasetsart University, Bangkok, Thailand |

Current Academic Position

Faculty, Science Education Center, Srinakharinwirot University, Thailand

Research interests

Science curriculum development, learning model for science education, STEM education, assessment and evaluation in science learning, scientific skills, misconceptions in Physics, scientific imagination and creativity, and science communication

Dissertation

Pruekpramool, Chaninan. (2011). The Development of the Science of Sound in Traditional Thai Musical Instruments Interdisciplinary Course for Non-science Upper Secondary School Students by using Integrated Teaching Approach. Dissertation, Ed.D (Science Education). Bangkok : Graduate School, Srinakharinwirot University.

Publications

Pruekpramool, Chaninan, Phonphok, Nason, White, Orvil L., & Musikul, Kusalin. (2011). Student Attitudes toward Science: The Case of Thai Upper Secondary School Non-Science Students. *The International Journal of Learning*. 1(18). 289-301.

Dahsah, Chanyah, Phonphok, Nason, **Pruekpramool, Chaninan,** Sangpradit, Theerapong, Sukonthachat, Jaturong. (2012). Students' Conception on Sizes and Distances of the Earth -Moon- Sun Models. *European Journal of Social Science*. 32(4): 583-597.

- Pruekpramool, Chaninan,** Phonphok, Nason, White, Orvil L., & Musikul, Kusalin. (2013). SoSTI Course: An Elective Course for Thai Upper School Non-science Students . *US-China Education Review A*. 3(1). 10-18.
- Pruekpramool, C.,** Phonphok, N., White, O.L., & Musikul, K. (2013). Learning science through traditional Thai musical instruments: An elective science course for non-science students. *The International Journal of Science, Mathematics, and Technology Learning*, 19(3), 147-163.
- Homrit, S., & **Pruekpramool, C.** (2014) Misconception about Force and Laws of Motion: A Case Study of 11th Grade Students in Sing Buri Province Using Structured Interview Protocol. *Proceeding of the 2nd International Conference for Science Educators and teachers*. 172-183.
- Pruekpramool, Chaninan,** (2014). Assessing science process skills. *Suthiparithat Journal*. April – June 2557. 28(86): 352-364. (In Thai language)
- Sarali Poochai & **Chaninan Pruekpramool.** (2015). Instrument development of Chiang Mai secondary school science teachers' perceptions toward science learning management integrated to information literacy in science classroom. *Proceeding of the 3rd International Conference for Science Educators and teachers*. 300-310.
- Chaninan Pruekpramool,** Gwo-Jen Hwang, Theerapong Sangpradit & PinitKhumwong. (2015). Using blended mobile learning model for learning on tablets through local science learning stations in Sakaeo province, Thailand. *Proceeding of the 3rd International Conference for Science Educators and teachers*. 328-343.

Research Presentations

1. **Chaninan Pruekpramool.** *Physics of Sound in Thai Classical Music Instruments: an Interdisciplinary Course Development for Upper Secondary School Students by Using an Integrated Teaching Approach*, Poster presentation, PTEC conference 2009, March 13, 2009, Pittsburgh, PA
2. **Chaninan Pruekpramool,** Orvil L. White, Kusalin Musikul, & Nason Phonphok. *Student Attitudes toward Science: The Case of Thai Upper Secondary School Non-Science Students*. 17th International Conference on Learning, Hong Kong, 6-9 July 2010.
3. **Chaninan Pruekpramool.** *The Development of the Science of Sound in Traditional Thai Musical Instruments Interdisciplinary Course for Non-science Upper Secondary School Students by using Integrated Teaching Approach.*
 - National Taiwan University of Science and Technology (NTUST), Taiwan, March 16, 2011
 - Science Education Department, National Taiwan Normal University, Taiwan, March 17, 2011.
4. **Chaninan Pruekpramool.** *SoSTI Course: An Elective Science Course for Thai Upper Secondary School Non-science Students*. East-Asian Association for Science Education conference (EASE 2011), Chosun University, Gwangju, Korea October 25-29, 2011.
5. **Chaninan Pruekpramool,** Orvil L. White, Kusalin Musikul, & Nason Phonphok. *Learning Science through Traditional Thai Musical Instruments: An Elective Science*

Course for Non-science Students. 19th International Conference on Learning, Institute of Education, University of London, GBT 14-16 August 2012.

6. **Chaninan Pruekpramool**. *In-service Science Teachers' Views toward Scientific Imagination for Science Learning in the Classroom*. The International Conference for Science Educators and Teachers, Pattaya, Thailand, May 9-11, 2013
7. Khunthong Klaythong & **Chaninan Pruekpramool**. *A Preliminary Investigation of the Generality and Problems on Doing Science Project of Upper Secondary School Students in Princess Chulabhorn's College*. The 2nd International Conference for Science Educators and Teachers, Phuket, Thailand, July 16-18, 2014.
8. Supansa Homrit, **Chaninan Pruekpramool**. *Misconception about Force and Laws of Motion: A Case Study of 11th Grade Students in Sing Buri Province Using Structured Interview Protocol*. The 2nd International Conference for Science Educators and Teachers, Phuket, Thailand, July 16-18, 2014.
9. **Chaninan Pruekpramool**. *Science teachers' perceptions of scientific imagination: the missing piece in science classroom*. Asian Conference on Education, Osaka, Japan, October 28-November 2, 2014
10. Chanyah Dahsah, **Chaninan Pruekpramool**, Theerapong Sangpradit, & Joseph S. Krajcik. *The Use of Community Resources to Promote Science Learning*. 2014 NARST Annual International Conference.
11. Sarali Poochai & **Chaninan Pruekpramool**. *Instrument development of Chiang Mai secondary school science teachers' perceptions toward science learning management integrated to information literacy in science classroom*. The 3rd International Conference for Science Educators and teachers, Bangkok, Thailand, July 17-19, 2015.
12. **Chaninan Pruekpramool**, Gwo-Jen Hwang, Theerapong Sangpradit & Pinit Khumwong. *Using blended mobile learning model for learning on tablets through local science learning stations in Sakaeo province, Thailand*. The 3rd International Conference for Science Educators and teachers, Bangkok, Thailand, July 17-19, 2015.

Research Projects

Research Projects	Year	Position	Funding
A development of astronomy and physics teaching media	2012	Researcher	Thailand Center of Excellence in Physics (ThEP)
A study of scientific literacy levels and a survey of scientific literacy needs of citizen in a community: A case study of Tambon Nongmakfai Amphur Wattanakorn, Sa-keaw Province	2013	Researcher	Science Education Center, SWU
The development physics teacher's efficacies by using a Continuing Professional Development (CPD) program English integrated science approach	2013	Researcher	Thailand Center of Excellence in Physics (ThEP)
A study of in-service science teachers' views toward scientific imagination for	2014	Research project leader	Science Education Center,

science learning management in the classroom			SWU
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Ongoing Research Projects

Research Projects	Duration	Position	Finding
Development of Understanding and Self-efficacy Beliefs Regarding STEM Teaching of Lower Secondary Science Teachers	2013-2015	Researcher	Science Education Center, SWU
The development of science learning activities package to promote scientific imagination in the classroom for lower secondary school students	2014-2015	Research project leader	Thailand annual government statement of expenditure 2015

Reviewer/Editorial Board Member

1. Associate Editors, International Journal of Science, Mathematics, and Technology Learning - Volume 20
2. Organizing committee and editorial committee, International Conference for Science Educators and Teachers (ISET)
3. Book editor, *The grace of H.R.H. Princess Maha Chakri Sirindhorn: project of increasing science learning achievement in secondary schools under Bangkok Metropolitan Administration* (2015) (In Thai language)
4. Book editor, Physics supplementary book for Grade 9-12 No. Aksorn Charoentat Tat Act. Co., Ltd. (In Thai language)

Academic Projects and Services (Selected)

1. Academic service: Workshop on little scientists house activities at Nakon Nayok and Sra Kaeo provinces (2012 -2014)
2. Academic service: Workshop on student-centered learning techniques and approaches (April 2012)
3. Academic service: Workshop on teaching and learning science in English (June 2012, February 2013, March 2013)
4. Academic service: Workshop on teaching and learning Physics in English using a Continuing Professional Development (CPD) program English integrated science approach (August 2012)
5. Guest speaker at National Taiwan University of Science and Technology for Master and doctoral students on the topics of “Inquiry-based teaching and learning” “Internal and external validity of research designs” and “Learning science through traditional Thai musical instruments” (November 2012)
6. Special instructor on ILSE 657 Research Seminar in Science and Technology Education at Institute for innovative learning, Mahidol University (January 2013)
7. Academic service: Workshop on learning science by 7E model at ISMTEC 2013 (January 2013)

8. Academic service: Workshop on technology transferring on the topic of sound activities (February 2013)
9. Academic service: Workshop on cooperative learning (March 2013)
10. Academic service: Workshop on teaching and learning process and strategies in science classroom (March 2013)
11. Academic service: Workshop on GLOBE protocols: Earth System Science: ESS (June 2013, April 2013)
12. Academic service: Workshop on STEM Education (August 2013)
13. Academic service: Workshop on learning science using online resources integrated to local wisdoms and science learning stations in Sra Kaeo Province (April, May and June 2014)
14. Academic service: Workshop on developing of instructional media follows the PISA way (May 2014)
15. Academic service: Workshop on learning science using online resources integrated to local wisdoms and science learning stations via learning on tablets in Sra Kaeo Province (June 2014)
16. Academic service: Workshop on learning science using STEM education (April 2015)
17. Academic service: Workshop on Physics misconceptions in Physics teachers at Sra Kaeo province ((April 2015)
18. Academic service on STEM2 Curriculum Development for Piyachart Pattana School under Her Royal Highness Princess Maha Chakri Sirindhorn Patronage (July, 2015 - Present)

Teaching Experiences

- **Secondary school level**
2005 – 2006 Teaching Physics at Pakkred school, Nonthaburi, Thailand
- **Undergraduate Courses**
2013 - 2014 Physics for science teachers I and II at Faculty of Science, Srinakharinwirot University
- **Graduate Courses**
2011 –Present at Science Education Center, Srinakharinwirot University
 - The Earth and Universe
 - Main concepts in science for science educator
 - Main concepts in Physics for science educator
 - Earth science for science educator
 - Advanced statistics for science education
 - Statistics for science education research
 - Advanced Quantitative Research for Science Education
 - Advanced Qualitative Research for Science Education
 - Assessment for Learning in Science
 - Seminar for science education research
 - Seminar on innovative science learning

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