

# RESEARCH TECHNIQUES FOR SCHOOL TEACHERS

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## ABSTRACT

The source of systematic research should be teaching and learning in the real classroom. The process needs to start from 1) collected some ideas and overview of what alternative conception the students held and what difficulties the students faced, 2) use the findings to guide the development of instructional materials or solution, and 3) carry out an effectiveness assessment of the new instructional materials, based on what the students have learned. Therefore, in this workshop, we will allow participants to self-study how to conduct physics education research, starting with exploring students' concepts, analyzing students' responses, generating research questions, and designing a solution. The participants will finally come up with the physics education research mind.

Intended Audience: Secondary School Educators

This workshop will be presented in the Thai language

## PRESENTERS



Assoc. Prof. Dr. Sura Wuttiptom (Ph.D. Science and Technology Education, Mahidol University, Thailand; B.Sc. Physics, Ubon Ratchathani University, Thailand), currently teaches in the Department of Physics at Ubon Ratchathani University, Thailand. His research centers on bringing an active learning physics approach to university and school classrooms through physics teacher education. He is a core trainer in STEM Education for IPST (The Institute for the Promotion of Teaching Science and Technology, Thailand). He has been a local trainer of The Little's Scientist House Thailand Project since 2011.



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