

Physics Education Research in Vietnam



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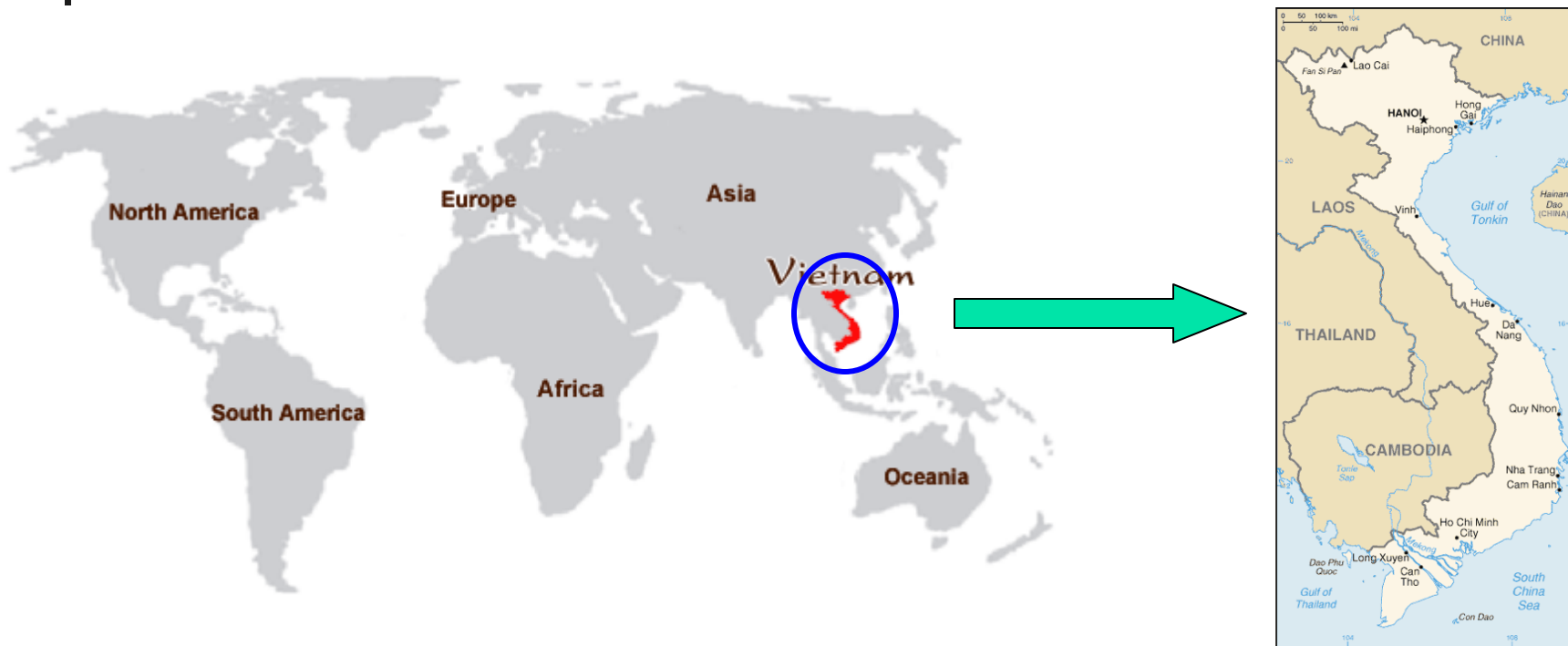
Physics Education Research Group
Kansas State University



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Geography



Vietnam is a country in the South East Asia

Geography



- Surface area: 128,527 sq mi (65th)
- Population: 87 million (13th)
- Official language: Vietnamese
- National literacy rate: ~ 95%
- ~ 25 million students K-College
- ~ 1.3 million teachers



Physics Education in Vietnam

- All students learn Physics from the 6th grade to the 12th grade
- Conceptual Physics in middle school
- Algebra-based Physics in high school
- Calculus-based Physics in college
- Physics is one of the required subjects in the admission exam to many colleges



Physics Education in Vietnam

- Traditional classrooms, lectures
 - students passively receive knowledge from teacher
- Content-focused teaching
- Teaching towards the exams
 - Students are good at memorizing facts and solving textbook problems, but are lack of conceptual understanding and solving real world problems



Physics Education Research in Vietnam

- PER is not well-known among physics teachers and researchers in Vietnam
- Most of the PER studies focus on
 - using technology in physics classrooms
 - creating assessment tools
 - active learning models such as problem-based learning, project-based learning, ...
- These studies do not help improve the quality of physics teaching.

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PER at HCMC University of Pedagogy

- The Physics Department at Ho Chi Minh City University of Pedagogy (HCMUP) is one of the largest physics departments in the country on physics teacher training
- We would like to raise awareness of future physics teachers on PER as a key to improve physics teaching.
- However, we do not have faculty members with PER specialty.



PER at HCMC University of Pedagogy

- We are seeking cooperation with PER groups around the world for
 - training our faculty members and graduate students with specialty in PER
 - cooperative training programs
 - joined projects in PER
 - visiting scholars exchange



Contact information

- If you are interested in knowing more about PER in Vietnam and potential cooperation in PER with the Physics Department at HCMUP, please contact:

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Thank You

