Curriculum Vitae

Parames Laosinchai, Ph.D.

Education:

Degree	Field of Study	University	Year
B.Eng.	Computer	Chulalongkorn University	1985
M.B.A.	Finance and Investment	City University of New York	1993
M.Sc.	Finance	Washington University in St. Louis	1998
Ph.D.	Science and Technology Education	Mahidol University	2011

Affiliation: Institute for Innovative Learning, Mahidol University

Position: Lecturer in the Master of Science and Doctor of Philosophy Programs in Science and Technology Education

Research Interests

1. Mathematics Education
2. Computer Science Education
3. Computers in Education
4. Physics Education
5. Mathematics
6. Computers and Mathematics with Applications
7. Phylogenetics

Publications

Busadee, N., Panijpan, B.*, **Laosinchai, P.**, & Ruenwongsa, P. (2010). Enhancing highschool students' achievement in permutation and combination through nontraditional word problems, sport problems, and probabilistic games. *The International Journal of Learning, 17*(7), 413–428.

Busadee, N., **Laosinchai, P.**, & Panijpan, B.* (2011). Finding probability and possibility lessons in sports. *Mathematics Teacher, 105*(5), 372–378.

Choopan, W., Ketpichainarong, W., **Laosinchai, P.**, & Panijpan, B.* (2011). A demonstration setup to simulate detection of planets outside the solar system. *Physics Education, 46*(5), 554–558.

Piyayodilokchai, H., Ruenwongsa, P., Ketpichainarong, W., **Laosinchai, P.**, & Panjaburee, P.* (2011). Promoting students' understanding of SQL in a database management course: a learning cycle approach. *The International Journal of Learning, 17*(11), 325–337.

Wanichsan, D., Panjaburee, P.*, **Laosinchai, P.**, & Chookaew, S. (2011). A majority density approach for developing testing and diagnostic systems. In A. König, A. Dengel, K. Hinkelmann, K. Kise, R. J. Howlett, & L. C. Jain (Eds.), *Knowledge-based and Intelligent Information and Engineering Systems* (pp. 134–143). Lecture notes in artificial intelligence. Heidelberg: Springer.

Wongapiwatkul, P., **Laosinchai, P.**, & Panijpan, B.* (2011). Enhancing conceptual understanding of trigonometry using Earth geometry and the great circle. *Australian Senior Mathematics Journal, 25*(1), 54–63.

Wongapiwatkul, P., **Laosinchai, P.**, Ruenwongsa, P., & Panijpan, B.* (2011). Enhancing high-school students' conceptual understanding of the linkages between the Earth and trigonometry through an inquiry-based learning unit. *The International Journal of Learning, 18*(2), 1–21.

Laosinchai, P. (2012). Proof without words: Sums of cubes. *Mathematics Magazine, 85*(5), 360.

Laosinchai, P. & Panijpan, B.* (2012). A geometric interpretation of Pascal's formula for sums of powers of integers. *The American Mathematical Monthly, 119*(1), 58–64. (Translated into Chinese in *Mathematical Advance in Translation, 31*(3), 285–288).

Wanichsan, D., Panjaburee, P.*, **Laosinchai, P.**, Triampo, W., & Chookaew, S. (2012). A majority-density approach to developing testing and diagnostic systems with the cooperation of multiple experts based on an enhanced concept-effect relationship model. *Expert Systems with Applications, 39*(9), 8380–8388.

Busadee, N.* & **Laosinchai, P.** (2013). Authentic problems in high school probability lesson: Putting research into practice. *Procedia - Social and Behavioral Sciences, 93*, 2043–2047.

Piyayodilokchai, H., Panjaburee, P.*, **Laosinchai, P.**, Ketpichainarong, W., & Ruenwongsa, P. (2013). A 5E learning cycle approach-based, multimedia-supplemented instructional

unit for structured query language. *Educational Technology and Society, 16*(4), 146–159.

Sheikh, S. S., Panjaburee, P.*, **Laosinchai, P.**, & Srisawasdi, N. (2013). Developing learning activity based on the learning cycle approach to promote students' understanding of square root. *The International Journal of Science, Mathematics and Technology Learning, 19*(3), 71–81.

Chookaew, S., Panjaburee, P.*, Wanichsan, D., & **Laosinchai, P.** (2014). A personalized e-learning environment to promote students' conceptual learning on basic computer programming. *Procedia - Social and Behavioral Sciences, 116*, 815–819.

Kowasupat, C., Panijpan, B.*, **Laosinchai, P.**, Ruenwongsa, P., Phongdara, A., Wanna, W., Senapin, S., & Phiwsaiya, K. (2014). Biodiversity of the *Betta smaragdina* (Teleostei: Perciformes) in the northeast region of Thailand as determined by mitochondrial COI and nuclear ITS1 gene sequences. *Meta Gene, 2*, 83–95.

Panijpan, B.*, Kowasupat, C., **Laosinchai, P.**, Ruenwongsa, P., Phongdara, A., Senapin, S., Wanna, W., Phiwsaiya, K., Kühne, J., & Fasquel, F. (2014). Southeast Asian mouth-brooding *Betta* fighting fish (Teleostei: Perciformes) species and their phylogenetic relationships based on mitochondrial COI and nuclear ITS1 DNA sequences and analyses. *Meta Gene, 2*, 862–879.

Phillips, B. J.*, Grosch, M., & **Laosinchai, P.** (2014). Mobile media usage by undergraduates and implications for m-learning instructional design. *International Journal of Mobile Learning and Organisation, 8*(1), 1–15.

Senapin, S., Phiwsaiya, K., **Laosinchai, P.**, Kowasupat, C., Ruenwongsa, P., & Panijpan, B*. (2014). Phylogenetic analysis of parasitic trematodes of the genus *Euclinostomum* found in trichopsis and betta fish. *Journal of Parasitology 100*(3), 368–371.

Panijpan, B.*, **Laosinchai, P.**, Senapin, S., Kowasupat, C., Ruenwongsa, P., Kühne, J., & Phiwsaiya, K. (2015). Mitochondrial COI and nuclear RAG1 DNA sequences and analyses of specimens of the three morphologically established species in the genus *Trichopsis* (Perciformes: Osphronemidae) reveal new/cryptic species. *Meta Gene, 4*, 17–28.

Manawatthana, S., **Laosinchai, P.**, Onparn, N., Brockelman, W. Y., & Round, P. D.* (2017). Phylogeography of bulbuls in the genus *Iole* (Aves: Pycnonotidae). *Biological Journal of the Linnean Society, 120*(4), 931–944.

Laosinchai, P.* & Panijpan, B. (2018). Titration of acetic acid and glycine: Doing does not always lead to understanding. *Chemical Education Journal, 19*(1). Retrieved from http://www.edu.utsunomiya-u.ac.jp/chem/cejrnlE.html

Pammanasut, P., Panijpan, B.*, Senapin, S., Ruenwongsa, P., Sriwattanarothai, N., **Laosinchai, P.**, & Phiwsaiya, K. (2018). Discovery of wild populations of *Betta smaragdina* Ladiges, 1972 (Teleostei, Osphronemidae) in a western province of Thailand. *Check List, 14*(6), 1077–1082.

Saengphan, N., Panijpan, B.*, Senapin, S., **Laosinchai, P.**, Ruenwongsa, P., Suksomnit, A., & Phiwsaiya, K. (2018). Morphology and molecular phylogeny of *Macrobrachium suphanense* sp. nov. (Decapoda: Palaemonidae) from Thailand. *Zootaxa, 4482*(1), 151–163.

Conference Proceedings

Wanichsan, D. & **Laosinchai, P.** (2010, 19–20 March). *A Program used to design concept of programming*. Paper presented at the 5th Conference on Science and Technology for Youth (2010), Bangkok International Trade and Exhibition Centre, Bangna, Bangkok, Thailand.

Wanichsan, D. & **Laosinchai, P.** (2010, 1–2 April). *A novel program to enhance students' abilities in drawing correct flowcharts*. Paper presented at the 2nd Annual International Research Conference on Social Sciences and Humanities, The Royal River Hotel, Bangkok, Thailand.

Chookaew, S., Jittivadhna, K., & **Laosinchai, P.** (2010, 1–2 April). *Using an animated cartoon analogy for enhancing undergraduate computer students' understanding of process management in Operating System*. Paper presented at the 2nd Annual International Research Conference on Social Sciences and Humanities, The Royal River Hotel, Bangkok, Thailand.

Laosinchai, P. & Panijpan, B. (2011, 10–12 October). *Novel, thematic combinatorial proofs of basic summation formulas*. Paper presented at the 37th Congress on Science and Technology of Thailand, Centara Grand & Bangkok Convention Centre at Central World, Bangkok, Thailand.

Sinthsirimana, S., Panjaburee, P., & **Laosinchai, P.** (2012, 7–9 November). *An automatic diagnostic assessment system (ADAS) for computer programming: a case study*. Paper

presented at the 1st International Conference on Innovation in Education (ICIE2012), S.D. Avenue Hotel, Bangkok, Thailand.

Sheikh, S. S. & **Laosinchai, P.** (2013, 11–14 November). *Activity-based multimedia on the geometric meaning of the long division algorithm to find square roots*. Paper presented at the 5th International Conference on Science and Mathematics Education (COSMED 2013), The Regional Centre for Education in Science and Mathematics (RECSAM), Penang, Malaysia.

Kinley, Wongkia, W., & **Laosinchai, P.** (2014, 5–7 February). *Employing contextual examples and graphing activities to enhance students' understanding of the relationship between differentiation and integration in calculus*. Paper presented at the 2nd ASEAN Plus Three Graduate Research Congress (2nd AGRC), S31 Sukhumvit Hotel, Bangkok, Thailand.

Laosinchai, P. (2014, 2–4 December). *A middle-school method of generating Pythagorean triples*. Paper presented at the 40th Congress on Science and Technology of Thailand, Hotel Pullman Khon Kaen Raja Orchid, Khon Kaen, Thailand.

Panijpan, B., & **Laosinchai, P.** (2017). What Can Be Learned from the Integrative Titration Curves of Acetic Acid and Glycine? In Riyanto, K. Merdekawati, I. Fatimah, Allwar, & N. Fitri (Eds.), *Development of Chemical Education in 21st Century: Proceedings of the 2nd International Seminar on Chemical Education (ISCE) 2017* (pp. 10–14). Retrieved from http://chemistryeducation.uii.ac.id/wp-content/uploads/2017/10/Bhinyo-Panijpan-Parames-Laosinchai.pdf