

MME Seminar 2017

Session 7



Mathematics and Psychology: Exploring Non-routine Problem Solving in a College Undergraduate Filipino Class

By Prof Queena Lee Chua

Date: Wed 4th Oct 2017

Time: 3.30 pm to 4.30 pm

Venue: MME Journal Rm (NIE7-3-16)

Problem solving is essential in our technological world. Queena will share an exploratory study that provides concrete data on the factors and effects surrounding problem solving in an undergraduate Filipino class. Year level, gender, course major, and high school background have no significant effect on subsequent problem solving performance. However, beliefs and attitudes towards problem solving are significantly correlated to performance, validating international research. Qualitative analyses employing quotes and solutions from participants provide an in-depth look at technical and psychological strategies employed, benefits derived, and shortcomings perceived. Recommendations for pedagogy and research conclude the discussion.

Prof Queena N. Lee-Chua teaches math and psychology at the Ateneo de Manila University in the Philippines. Her interests include learning processes in math and science, psychological dynamics of families, math and science popularization, clinical psychological issues of parents and children. A consultant and board member for academe, government, civic and business groups, Queena writes a weekly column for the Philippine Daily Inquirer. She has written several books on math, science, learning, parenting, family businesses, inspirational stories. She has won national awards in teaching, research, science, literature, community service. She has also garnered international recognition such as Asia Inc. Magazine's Who's Hot in Asia, the Singapore Biographical Heritage Center's Southeast Asian Personalities of Chinese Descent, and the Third World Academy of Sciences' Award for Public Understanding of Science for East Asia, Southeast Asia and the Pacific Region.

All are welcome!