



Asian Technology Conference in Mathematics

An enjoyable and instructive conference

PO Box 3684, Radford, VA 24143-3684 • USA

Call for Students-Centered Program at ATCM 2020

We are very pleased to continue our students-centered program at the 25th Asian Technology Conference in Mathematics (ATCM 2020: <http://atcm.mathandtech.org>) in Pattaya, Thailand, December 13-17, 2020

Objectives

The ATCM students-centered program within ATCM is meant to promote the exchanges of international students' learning experiences through discovery after technological tools are being creatively explored in solving real-life problems. It is common sense that mathematics-learning outcomes cannot be and should not be measured only by testing or examination alone, this is where projected based exploration could become life-long learning experiences.

Outline of Program

The conference will cover a broad range of topics on the application and use of technology in Mathematics research and teaching.

1. ATCM committee will provide interesting projects for ages 13-18 respectively to work on during the ATCM 2020.
2. We will give each relative age group a task to accomplish in three days; they can explore any technological tools to assist their task.
3. Each task will be given on December 14. Presentations of results will be conducted on December 16. Winners will be announced during the closing, which is the morning of December 17.
4. Modifications may be necessary depending on the participating teams and logistics.

Assessment

The project(s) will be given in English and can be translated, by a supervisor, into local language so students can comprehend the problems precisely. However, the final presentation should be conducted in English. Evaluators of the projects may score each group out of 40 (10 marks for each of the following four criteria).

- **Representation of the problem:** whether the group is able to comprehend the problem and how they choose to represent it through diagrams, pictorial representations, equations or numerical tables etc.
- **Attempting a solution:** Originality in approach to attempting a solution to the given problem.

- **Creative use of technology:** How they use technology can assist students generate patterns, and develop insights into the problem
- **Presentation of findings and results** - The students may submit a brief report where they demonstrate their key findings. They will be given about 15 to 20 minutes to explain their findings and solution. Students should submit the rough work/calculations done by them.

Projected Outcomes

1. Inspire students' creative and innovative thinking skills beyond encountering their day-to-day exam problems.
2. Inspire exchanging ideas of handling students-centered projects between Chinese and international students.
3. Explore how technologies can enrich mathematics instructions and learnings between Chinese and international educators.

Registration and Hotel fees

1. Each student will pay USD250 and accompany parent or teacher will pay USD220. The registration fees include attending all functions at ATCM 2020 (<http://atcm.mathandtech.org>) plus planned school visits.
2. Participants will stay at the official ATCM 2020 hotel, the rate and information can be found at <http://atcm.mathandtech.org/registration.htm>.

All Participating teams need to be confirmed by September 15, 2020. Please contact Professor Wei-Chi Yang at wyang@radford.edu if you have inquires or are interested in this program ASAP.