

**Session Program**

**21-23 May 2018**

**Siam Physics Congress 2018**

***A2: Phys Ed, Plasma, and Nuclear Fusion***

Topland | Hotel & Convention Center Phitsanulok  
<http://www.toplandhotel.com/index.php> Phitsanulok, Thailand

## Monday 21 May

13:45

### A2: Phys Ed, Plasma, and Nuclear Fusion

**Session** | **Location:** Uthai Thani Room | **Convener:** Suwit Kiravittaya

13:45–14:00

#### Investigation of Cold Atmospheric Plasma induce Apoptosis in Cancer Cell

**Speaker**

Mr Wasin Nupangtha

14:00–14:15

#### Development of Problem-solving Skill by Using Active Learning for Student Teachers in Introductory Physics

**Speaker**

สุมาลี เทียนทองดี

14:15–14:30

#### KVIS-ISB Student Research Collaboration Program

**Speakers**

Dr Min Medhisuwakul, Dr Jonathan Eales

14:30–14:45

#### Paddle Angle and Ball Spin in Table Tennis

**Speakers**

Mr Alexander Chen, Mr Binvant Broca, Napath Kraivisitkul, Mr Phuri Poprom

14:45–15:00

#### Fluid Density and Impact Cavity Formation

**Speakers**

Mr Ga-Chun Lin, Mr Allan Michelin, Mr Damrongrat Siriwanna, Mr Pattarapon Tanalikhit

15:00–15:15

#### Drag Force on Cars in Flooded Streets

**Speakers**

Mr Chanon Hasuwannakit, Mr Nico Angelo Millana, Mr Seksan Yoadsanit

15:15

13:45

### A2: Phys Ed, Plasma, and Nuclear Fusion

**Session** | **Location:** Lop Buri Room | **Convener:** Dr Umporn Wutchana

13:45–14:00

#### An activity sheet for teaching double-slit interference

**Speaker**

Mr Ariyaphol Jiwalak

14:00–14:15

#### Machine Learning system mimicking student's choice in Particle Data Analysis lab activity

**Speaker**

Vichayanun Wachirapusanand

14:15–14:30

#### Impact of context on students' conceptual understanding about mechanical wave speed

**Speaker**

Mr Michael Gavriel Reyes

14:30–14:45 **An equipment design to verify Boyle's law****Speaker**

Dr Wittaya Kanchanapusakit

14:45–15:00

**Analysis of Understanding in the Speed of an Electromagnetic Waves and in the Principle of Refraction: a Case Study of KMUTT (Ratchaburi) Engineering Freshmen****Speaker**

Dr Banyat Lekprasert

15:00–15:15 **Determining the degree to which a hen's egg is cooked by boiling****Speaker**

Ms Artittaya Boonkird

15:15

15:30

**A2: Phys Ed, Plasma, and Nuclear Fusion****Session** | **Location:** Lop Buri Room

15:30–15:45

**Surface Water Wave Topography Construction using Free Surface Synthetic Schlieren Method for Ripple Tank Wave Phenomena Demonstration****Speaker**

Mr Sitthipong Yapo

15:45–16:00 **Problem based learning: How can electricity cause the house fire?****Speaker**

Ms Tanatorn Kalaya

16:00–16:15

**Evaluation of Thai students and teacher's attitudes in physics using Colorado Learning Attitudes about Science Survey (CLASS)****Speaker**

Narumon Suwonjandee

16:15–16:30

**Low-cost demonstration kit for the blood-color lunar eclipse formation****Speaker**

Dr Watcharawuth Krittinatham

16:30–16:45 **Development of Arduino-based Logic Gate Training Kit****Speaker**

Ms Shwe War Khaing

16:45–17:00

**Investigation of Half-Ring Vortices Generated by Half-Submerged Thin Circular Plate Using Digital Particle Image Velocimetry Method****Speaker**

Mr Tanat Piumsuwan

17:00-17:15

**EFFECT OF ROTATING BLADES INSTALLED ABOVE THE HEATING SURFACE ON THE NUCLEATE BOILING HEAT TRANSFER ENHANCEMENT**

**Speaker**

Mr Adirek Suriyawong

17:15-17:30

**Number of Blades of Rotating Blades Effect on the Nucleate Boiling Heat Transfer Enhancement of distilled water**

**Speaker**

Mr Adirek Suriyawong

17:30