

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