

# ★ Research poster: 3D Virtual Laboratory for Teaching Physics for 9th Graders



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Wednesday, June 28, 11:00 am–1:00 pm  
(specific location available in May)

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The purposes of this study were to implement 3D virtual reality software developed by the authors into developing a Newton's second law of motion instruction for 9th graders and to investigate the effects of students' achievement, motivation and their attitudes toward the physics instruction and technology as well.

Skill level:

Intermediate

Attendee devices:	Devices not needed
Participant accounts, software and other materials:	None
Focus:	Digital age teaching & learning
Topic:	Augmented and virtual realities
Grade level:	9-12
Subject area:	Science
ISTE Standards:	Teachers : Facilitate and inspire student learning and creativity Students : Empowered learner Coaches : Digital age learning environments
Additional detail:	Global Collaboration strand session

# Proposal summary

## Framework

The use of virtual worlds in teaching of undergraduate physics had been proven to offer appealing advantages over more conventional approaches (Carr & Bossomaier, 2011; Dede et al , 1999; Wegener et all, 2013). Thus, the study tried to examine if students enhance

[More...](#)

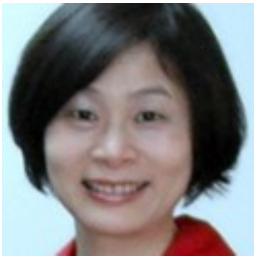
## Presenters



★ Yu-Hur Chou, Tung Nan University



★ Shu-chuan Chuang, Taipei Sanmin Junior high school



★ Dr. Hsin Yih Shyu, Tamkang University

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San Antonio

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