

*"Improving Quality of Mathematics,
Science, and Computer Science Education
Through Research"*

**Bandung
October 17, 2015**

BOOK OF ABSTRACTS

msceis 2015

**Internasional Seminar on Mathematics,
Science, and Computer Science Education**

Organized by: Supported by:



FMIPA UPI



UNIVERSITY OF TASMANIA

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MSCEIS 2015 PROGRAM Saturday, October 17, 2015

Time	Event	Venue
07:30-09:00	Registration	Registration Desk (Lobby FPMIPA A)
08:00-09:00	Opening Ceremony Welcoming Address by Rector Universitas Pendidikan Indonesia Drs	Auditorium of FPMIPA A UPI
09:00-10:20	Prof. John Williamson Prof. Hsin Kai Wu	Main Session (Auditorium of FPMIPA A UPI)
10:20-10:30	Group Photo	Auditorium of FPMIPA A UPI
10:30-11:00	Coffee Break	Lobby of Auditorium FPMIPA A UPI
11:00-12:00	Plenary Session	
	Physics and Physics Education: Prof. Dr. Eng. Khaerunnajal Dr. John Kenny	Plenary Session (Auditorium of FPMIPA A UPI)
	Mathematics and Mathematics Education: Drs. Turmudi, M.Ed., M.Sc., Ph.D. Dr. Kikryn Raeburn	Plenary Session (E405 of FPMIPA A UPI)
	Biology and Biology Education: Prof. Hj. Rr. Hertien Koesbandiah Surtikanti, M.Sc.E.S., Ph.D Prof. Hsin Kai Wu	Plenary Session (E406 of FPMIPA A UPI)
	Chemistry and Chemistry Education: Prof. Bruce Waldrip Dr. Eng. Asep Bayu Nandiyanto, M.Eng	Plenary Session (E210 of FPMIPA A UPI)
	Computer Science and Computer Science Education: Prof. Zaenal A. Hasibuan, Ir., MLS., Ph.D Dr. Adrew Fluck	Plenary Session (Meeting Room (S209) of FPMIPA A UPI)
	Science Education: Prof. Raphael Finkel Dr. Harry Firman, M.Pd	Plenary Session (Auditorium of Sekolah Pascasarjana UPI)

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12.00-13.15	Lunch Break	
13.15-15.45	Parallel Session	
15.45-16.00	Coffee Break	
16.00-16.15	Closing Ceremony	



SPORTS EQUIPMENT MODEL DEVELOPMENT TO SUPPORT PHYSICAL ACTIVITY AND PHYSICAL FITNESS LEARNERS

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Abstract. This research aims to design and make models of sports equipment to support physical activity and physical fitness of students that can be used in the process of learning activities for physical education, sports and health. This study uses a Research and Development (R & D) of Borg and Gall (1983). In product development model is used Dick and Carey (1995). Development of tools tested on students from the primary school level, junior high schools and high schools. Test samples used purposive sampling with criteria developed by the research team. The research instrument using a standard measurement of physical fitness Physical Fitness Test Indonesia and tests of physical strength and raw use standard tools. Results of the study are set 10 (ten) kinds of models of equipment which can be used to support physical activity and physical fitness of students eligible applied to the learning process of physical education, sports, and health. Models developed exercise equipment expected to be used by teachers in the process of learning activities physical education, sports and health at various levels of education.

Keywords: Equipment, Activity, Fitness

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