

# Sijil Penyertaan

Certificate of Participation Awarded to

JASLIN IKHSAN

For the Attendance of

THE INTERNATIONAL POST GRADUATE CONFERENCE ON SCIENCE AND MATHEMATICS 2013

On

5-6th OCTOBER 2013

Venue

CONVENTION HALL, E-LEARNING BUILDING UNIVERSITI PENDIDIKAN SULTAN IDRIS

Professor Dr. Mustaffa Ahmad

Dean

Faculty of Science and Mathematics Universiti Pendidikan Sultan Idris





# International Post Graduate Conference on Science and Mathematics 2013

Research in Science and Mathematics Catalyse Sustainable Future

SMZO

Date

Venue

: Saturday, October 5th , 2013

: Convention Hall, E-Learning Building,

Universiti Pendidikan Sultan Idris

Organised by : Faculty of Science and Mathematics,
Universiti Pendidikan Sultan Idris

www.upsi.edu.my http://fsmt.upsi.edu.my http://www.ipcsm2013.my

Room 3 (Chemistry, Chemistry Education and Mathematic)

	Session 1
. w.	- What have display
	Chairperson: Dr. Adila Mohamad Jaafar
Time	Presenter Presenter Day Heing Sansevieria Leaf
0.15-10.30	Presenter  OR-033: The Optimization Of Nicotine Capture By Using Sansevieria Leaf  OR-033: The Optimization Of Nicotine Capture By Using Sansevieria Leaf
	A ctive Carbon With The Variation Of Mass April 1 ye
10.30-10.45	OR-034: Isolation and characterization of protein from hatther rate
10.45-11.00	OR-035: Synthesis Of Carbon Nanotubes From Different Preparation
	Method Of Waste Chicken Fats
11.00-11.15	
11.00 11.11	OR-036: Performance Of Unconfined Complessive Stabilized/Solidified Sample Containing Heavy Metals From Incinerated
11.15-11.30	OR-077: Waste management, practices and awareness in vocational
11.15 11.50	
11.30-11.45	OP 078: The Study Of Web-Based Collaborative Assistance Through
11.50-11.15	Edwards As A Hybrid Learning Model On Chemical Kinetic
12.00	OR-079: Development Of Five Phase Needham Constructivism Module
11.45-12.00	
	Top and The Effect Of Heing Hosaw PHZZIES III WILLING THE TOTAL
12.00-12.15	Chemical Compound Among The Secondary School Students  Chemical Compound Among The Secondary School Students  A Micro Edition Based Mobile
12.15-12.30	OR-081: The Development of Java 2 Miles Chemistry Encyclopedia "Chemistelopedia" As Independent Learning
	Media For Senior High School Students  OR-082: The Development of Mobile Game "Scientist Academy" As
12.30-12.45	Chemistry Learning Media For Independent Experiments
	Lunch
	Session 2
	Session 2
Mark green	Chairperson: Ms Nor Dalila Abd Rahman  Chairperson: Ms Nor Dalila Abd Rahman  Raser
14.00-14.15	OR-083: The Development Of Java 2 Micro Edition Development Of Chemistolopedia Application On Chemical Elements For Senior High
	OR-084: The Development Of Java 2 Micro Edition Based Mobil
14.15-14.30	OR-084: The Development Of Java 2 Micro Edition Application Chemistolopedia On Hydrocarbon And Petroleum As Learning
	Application Chemistelopedia On Hydrocarbon And Teneral
	Media For Senior High School Students  OR-085: The Development And Response Of Teachers Toward Character-
14.30-14.45	OR-085: The Development And Response of Teachers Towns
	The life Come "Dobochem (III THE Reaction reaction
14.45-15.00	
	OR-075: Strong Convergence Of All Algorithm Floods Nonexpansive Mappings For The Split Common Fixed-Point Problem In
15.00-15.15	OR-076: Modeling the Churning Tendency among Mortgage Customers
15.00 15.15	
15.15-15.30	OR-111: Synthesis And Characterization Of Edit-Latex Stimular
	Nanocomposite-Chitosan

### Room 4 (Mathematics)

		Sessi
- 44	-	
		Chairperson: Ms. N
Time	Pres	
10.15-10.30	OR-	-59: An Algorithm For C
10.10	Para	ameterized Single Expon
10.30-10.45		-060: A Study of Station
10.45-11.00		8-061: The Schur Multipl
11.00-11.15	OF	R-062: The Nonabelian 7
11.00-11.10	of	Order p4
11.15-11.30	01	R-063: An Analysis on
11.15-11.50	Tu	adung Saji Weaving
11.30-11.45	0	R-064: Mathematics Mod
11.00	to	Optimize Water Using a
11.45-12.00	10	P 065 Permutability De
12.00-12.15	10	R-066:Standardized N
12.00-12.13	0	Chikungunya Disease Maj
12.15-12.30	(	R-067: Timmer Function
12,30-12.45	1	OR-068: A Bootstrap Ap
12,30-12.10	1	of Seahorse Extract on As
		Chairperson
14.00-14.15	T	OR-069: A Review Of I
14.00-14.13		
14.15-14.30		OR-070: The Kernel of
= 14.15-14.30	'	Dihedral Point Group of
14.30-14.45	5	OR-071: Tourist Salisia
14,30-14.1		Analysis: A Case Study
14.45-15.0	0	OR-072: Comparing Ti
		Jenkin For Measuring
15.00-15.1	5	OR-073: Ownership St Malaysian: Utilizing G
		OR-074: A modified s
15.15-15.3	30	fuzzy differential equa
		Tuzzy different

Room 5 (Biology, Biology Education, Science Education)

	Session 1				
in.	***				
	Chairperson: Ma Ainatun Zulkefli				
Time	Presenter				
10.15-10.30	OR-047: Effect Of Seed Pretreatment By H2o2 And Magnetic Field On				
	The Sensitivity Of Silybum Marianum (L.) To Şalinity Sea Water				
10.30-10.45	OR-048: Antioxidative And Liver Protective Effects Of Synedrella				
	Nodiflora L., Against Carbon Tetrachloride (CCl <sub>4</sub> )-Mediated Oxidative				
	Damage In Rats				
10.45-11.00	OR-049: GC-MS Analysis And Chemopreventive Effects Of Commelina				
	Nudiflora L., Against Carbon Tetrachloride (CCl <sub>4</sub> )- Induced Oxidative				
	Stress And Hepatic Dysfunction In Rats				
11.00-11.15	OR-050: Development Of A Correction Algorithm For Reducing Metal				
	Artifact Due To Dental Amalgam In Computed Tomography Images				
11.15-11.30	OR-051: Study On Some Present OSC 11				
11.15 11.50	OR-051: Study On Some Properties Of Collagen Hydrolysate From Red				
11.30-11.45	Tilapia (Tilapia Mossambica) Scales				
11.30-11.45	OR-052: 18S rRNA Molecular Characterization Of Microalgae Isolated				
11.45-12.00	For High Nitrate Wastewater Treatment And Biomass Production				
11.43-12.00	OR-053: Transesterification of Waste Cooking Oil using Modified TDSP				
12.00-12.15	and Microwave Irradiation				
12.00-12.15	OR-054: Immunomodulatory Effect Of Solanum Nigrum Polysaccharide On Raw264.7 Cell Line				
12.15-12.30	OR-055: Optimization of Fatty Acid Recovery from Ottochloa nodosa				
12.50	(Kunth) Dandy				
12.30-12.45	OR-056: Sterilization Protocol In Tissue Culture Of Vitex Negundo L.				
	L. Tissue Culture Of Vilex Negundo L.				
	Lunch				
	Session 2				
14.00-14.15	Chairperson: En Muhammad Dawood Shah				
14.00-14.15	OR-057: Protein Profile of Digestive Fluid from the Larvae of Red Palm				
	weevil, Rhynchophorus ferrugineus (Coleoptera: Curculionidae) Regred on				
14.15-14.30	Coconut Cabbage				
14.13-14.30	OR-058: The Taxonomical And Morphological Study Of Cyperaceae In				
14.30-14.45	Selected Areas Of Perak				
14.50-14.45	OR-108: Interaction With Student Teachers, Learning Environment And				
	Commitment To Comfort Learning Students Studying In Biology Student				
14.45-15.00	Among Secondary School In The Perak State  OR-109: Development Of Virtual Learning Environment Materials				
	OR-109: Development Of Virtual Learning Environment Materials Through Bio2u Module Based On 'Frogasia Vle'				
15.00-15.15	OR-086: Isu Dan Cabaran Guru Dalam Pelaksanaan Iklim Inovasi Dalam				
	Pengajaran Dan Pembelajaran Sains				
15.15-15.30	OR-087: The Development Of Character-Based Comic As Media In				
	Science Learning				

#### Room 6 (Mathematics Education)

	Se
	Chairperson:
Time	Presenter
10.15-10.30	OR-093: The Usage Of IC
10.30-10.45	OR-094: Relationship Bet
	Primary School Mathemati
10.45-11.00	OR-095:Pengetahuan Te
	Pengajaran Guru Pelatih M
11.00-11.15	OR-096: Hubungan An
	Pembelajaran Dan Pencapa
11.15-11.30	OR-097: Understanding of
11.30-11.45	OR-098: Understanding O
11.45-12.00	OR-099: Pre-Service Seco
12.00	Of Vectors
12.00-12.15	OR-100: The Functions
	The Mathematical Problem
12.15-12.30	OR-101: Form One Stude
12.30-12.45	OR-102: Kesan Pengaja
	(PPBK) Terhadap Pencapa
	S
	Chairperson
14.00-14.15	OR-103: Teaching And L
14.00-14.13	Method
14.15-14.30	OR-104: An Instrumen
14.13-14.30	Teachers Assessment Pract
14.30-14.45	OR-105: Pembinaan Dan
14.30-14.45	
14.45-15.00	Aljabar Tingkatan 4 OR-106:Pembinaan Insti
14.45-15.00	Geometri Tingkatan Satu
15.00-15.15	OR-107: Attitudes Towar
15.00-15.15	OK-107. Attitudes 10wai
15.15-15.30	OR-112: Factor Analys
12.00	Attitude Toward Addition

OR-087

# THE DEVELOPMENT OF CHARACTER-BASED COMIC AS MEDIA IN SCIENCE LEARNING

Elsa Yulianingsih, Jaslin Ikhsan, Anti K. Prodjosantoso

Yogyakarta State University, Yogyakarta, 55281 Indonesia. E-mail:- elsa.stitba5@gmail.com, jaslinikhsan@gmail.com, prodjosantoso@yahoo.com

Charactereducationis growingand essentially needed in Indonesiabecausethe education is powerful engine to produce educated human being with noble character. Since media is one of important tools to enable interaction between students and learning materials, character-based comic was chosen as the media to be developed for science learning in this research with the aims ofmeasuring its quality based on the standardsdetermined by the reviewsof experts in science education contents and multimedia, and students. This research also investigated the effect ofthe media to character building andscience learning achievement of students. This research is Research and Development (R&D). The step of developmentwas adapted from 10 steps of Borg & Gall model, from which only eight steps with adaptation were used. The sample consists of 40 students of SMP Wiyata Mandala, Balikpapan, Indonesia from which 10 students participated in preliminary field testing, and the 30 other students participated in main field testing. Data were collected by means of valid questionnaires, tests (pre-test and post-test), observation and interview checklist. The results showed that the media was very . good in quality based on the reviews from the experts in science education content and multimedia, and good in quality based on the review of students. The character-based comic affected significantly character values improvement and science learning achievement.

OR-088

## THE ROLES OF SCIENCE

Monika Raharti

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Science Competitions and Fairs are held to nur teachers as mentors. The need to spark lear contribute to improving scientific literacy an economic force in the Southeast Asian region creative, innovative, and entrepreneurial. Indecompete in young scientist and inventor Nevertheless, few studies have been conduct scientists/inventors programs, especially in Ind of science teachers in mentoring science fair producted to evaluate the roles of science teachers in the process of science; e project and their scope of understanding. Texperience, this study highlighted the main bitteracy. The mentors are assumed to build the contribution of the science teachers are assumed to build the contribution.