



The 2nd International Conference on Science and Technology

//bio-prospecting
//computer science
//nanosciences and chemistry
//physics and its applications
//geo maritime

PROGRAM AND ABSTRACT BOOK

October 27-28th, 2016 / Yogyakarta, Indonesia

The 2nd International Conference on Science and Technology

//bio-prospecting
//computer science
//nanosciences and chemistry
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October 27-28th, 2016 / Yogyakarta, Indonesia

PROGRAM OUTLINE

Eastparc Hotel

Jl. Laksda Adisucipto, Km 6.5 Seturan, Yogyakarta

Thursday, 27 October 2016

Time	Program	Venue
07.00 – 08.00	Registration	Lobby Eastparc Ballroom
08.00 – 08.30	Opening ceremony 1. Dr. Roto, M.Eng. ICST 2016 Chairman 2. Prof. Ir. Dwikorita Karnawati, M.Sc., Ph.D. Rector of Universitas Gadjah Mada	Eastparc Ballroom
08.30 – 09.30	Plenary session I Prof. Dr. G.Q. Max Lu, FAA FTSE. Surrey University, United Kingdom <i>Moderator: Dr. Indriana Kartini</i>	Eastparc Ballroom
09.30 – 09.40	Photo Session	Eastparc Ballroom
09.40 – 10.00	Coffee break	
10.00 – 12.00	Plenary session II 1. Dr. Eko Fajar Nur Prasetyo Director of Versatile Silicon, Indonesia 2. Prof. Dr. Muh. Aris Marfai, M.Sc. Universitas Gadjah Mada, Indonesia <i>Moderator: Prof. Dr. M. Baiquni, M.A.</i>	Eastparc Ballroom
12.00 – 13.00	Lunch and Prayer	Lobby Eastparc Ballroom
13.00 – 15.00	Symposium session I*	Hibiscus, Magnolia, Heliconia, Lotus, Dahlia, Tulip, Garden, Frangipani, Orchid, Violet, Sunflower, Carnation, Ballroom
15.00 – 15.15	Coffee break	
15.15 – 16.15	Symposium session II*	Hibiscus, Magnolia, Heliconia, Lotus, Dahlia, Tulip, Garden, Frangipani, Orchid, Violet, Sunflower

* see each symposium schedule

PROGRAM OUTLINE

Eastparc Hotel

Jl. Laksda Adisucipto, Km 6.5 Seturan, Yogyakarta

Friday, 28 October 2016

Time	Program	Venue (Room)
07.00 – 08.00	Registration	Lobby Eastparc Ballroom
08.00 – 10.00	Plenary III session 1. Prof. Dr. Michael Richardson Leiden University, The Netherlands 2. Prof. Dr. Jasper Knoester Groningen University, Jerman <i>Moderator: Dr. Roto, M.Eng.</i>	Eastparc Ballroom
10.00 – 10.15	Coffee break	
10.15 – 10.30	Poster Session	Iris
10.30 – 11.30	Symposium session III*	Hibiscus, Magnolia, Heliconia, Lotus, Dahlia, Tulip, Garden, Frangipani, Orchid, Violet, Sunflower
11.30 – 13.00	Lunch and Prayer	
13.00 – 15.00	Symposium session IV*	Hibiscus, Magnolia, Heliconia, Lotus, Tulip, Garden, Frangipani, Orchid, Violet, Sunflower, Carnation, Ballroom
15.00 – 15.15	Coffee break	
15.15 – 15.30	Poster Session	Iris
15.30 – 16.00	Traditional dance performance Faculty of Biology, Universitas Gadjah Mada Photo session Closing ceremony 1. Head of BPP 2. Vice Rector for Research and Community Services	Eastparc Ballroom

* see each symposium schedule

Plenary Sessions



PLENARY SPEAKERS



Prof. Dr. G.Q. Max Lu FAA FTSE

President and Vice-Chancellor
The University of Surrey, Guildford United Kingdom

Dr. Eko Fajar Nur Prasetyo

Director of Versatile Silicon, Indonesia



Prof. Dr. Muh. Aris Marfai, M.Sc.

Faculty of Geography
Universitas Gadjah Mada, Indonesia



Prof. Dr. Michael Richardson

Universiteit Leiden, the Netherlands



Prof. Dr. Jasper Knoester

Zernike Institute for Advanced Materials
University of Groningen, the Netherlands

SYMPOSIUM

Bio-prospecting



INVITED SPEAKER SCHEDULE

Bio-prospecting

Time	Program	Venue
Thursday, October 27th, 2016		
Symposium session II 15.15 – 16.15	1. Dr. Rarastoeti Pratiwi, M.Sc. Faculty of Biology Universitas Gadjah Mada, Indonesia 2. Prof. Dr. Bernhard Grimm Humboldt Universität zu Berlin Lebenswissenschaftliche Fakultät, Germany Moderator: Dr. Yekti Asih Purwestri, M.Si.	Sunflower
Friday, October 28th, 2016		
Symposium session IV 13.00 – 16.00	1. Prof. R. Manjunatha Kini, Ph.D. National University of Singapore, Singapore 2. Montarop Yamabhai, Ph.D. Suranaree University of Technology, Thailand 3. Dr. Alfi Khitib International Islamic University Malaysia Moderator: Dr. Tri Rini Nuringtyas, M.Sc.	Sunflower

Bio-Prospecting
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session I
 Moderator : Dr. biol. hom. Nastiti Wijayanti, S.Si., M.Si.
 Room : Sunflower

Time	Code	Titles & Authors
13.00 – 13.15	BP-O-01	The preliminary study of enhancing black rice as functional food: expression pattern of flowering genes in long harvest black rice cultivar Cempo Ireng <i>Yekti Asih Purwestri, Febri Adi Susanto and Anisa Nazera Fauzia</i>
13.15 – 13.30	BP-O-02	Detection and transcription of homolog genes encoding conjugated linoleic acid in <i>Lactobacillus casei</i> strains isolated from gasterointestinal tract <i>Ari Surya Sukarno, Donny Widianto and Widodo</i>
13.30 – 13.45	BP-O-03	A preliminary study of inulin degradation in intestinal-origin lactic acid bacteria <i>Dwi Adityarini and Widodo</i>
13.45 – 14.00	BP-O-04	Cytotoxic activities of ethanolic extract fractions of black rice cv Woja Laka bran to colon cancer WiDr cells <i>Dwimei Pranatami, Woro Anindito Sri Tunjung, Rumiyati, Lisna Hidayati and Rarastoeti Pratiwi</i>
14.00 – 14.15	BP-O-05	Effect of Nilem (Ostheochilus hasselti) Egg Addition from West Java on Characteristics of Fish Stick <i>Emma Rochima, Azka Iqbal M, Iis Rostini, Nia Kurniawati and Junianto</i>
14.15 – 14.30	BP-O-06	Synthesis and characterization of Hydroxy Propyl Cellulose (HPC) Snake fruit (<i>Salaca edulis Reinw</i>) "Pondoh Super" kernel <i>Evita Riviani Achmadi</i>
14.30 – 14.45	BP-O-07	Preliminary study on inulin extraction from Indonesian local tubers <i>Nur Kusmiyati, Tutik Dwi Wahyuningsih and Widodo</i>
14.45 – 15.00	BP-O-08	The formulation of candied jelly of roselle calyces (<i>Hibiscus sabdariffa L.</i>) with stability test and hedonic test <i>Anggun Agustina, Nutrisia Aquariushinta Sayuti and Agus Winarso</i>

Bio-Prospecting
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session I
 Moderator : Dr. Siti Sumarmi
 Room : Ballroom

Time	Code	Titles & Authors
13.00 – 13.15	BP-O-09	Hydrothermal treatment of sawdust and corn cobs biomass: effect of process conditions on hydrochar properties Agus Prasetya, Ahmad Tawfiequrrahman Y., Cyrilla Oktaviananda and Ria Fauzia Rahmawati
13.15 – 13.30	BP-O-10	Biodiesel production from coconut oil by microwave Nur Hidayanti, Heri Septya Kusuma and Mahfud Mahfud
13.30 – 13.45	BP-O-11	The reduction of effects of greenhouse gases through the utilization of biogas from animal waste as an alternative fuel in Pangajung Village, Bangkalan Regency, East Java Satyaguna Rakmatulloh, Efendi S Wirateruna and Singgih Hawibowo
13.45 – 14.00	BP-O-12	Diversity of endophytic bacteria in sweet sorghum (<i>Sorghum bicolor</i> (L.) Moench) and their potential for plant growth promoting Charlie Ester de Fretes, Ria Suryani, Yekti Asih Purwestri, Tri Rini Nuringtyas and Donny Widianto
14.00 – 14.15	BP-O-13	Evaluation of different culture media for improvement in bioinsecticides production by fusants <i>Bacillus thuringiensis</i> and their application against larvae of <i>Crocidolomia binotalis</i> , Zell. Siti Sumarmi, Retno Peni Sancayaningsih, Sebastian Margino, Hidayat Soesilohadi and A Khalimun Nur
14.15 – 14.30	BP-O-14	Identification tungro virus (rice tungro spherical virus) in plant rice (<i>Oryza sativa</i> Linnaeus) using buffer liquid detergent modified with applications based polymerase chain reaction marker Doni Hermawan
14.30 – 14.45	BP-O-15	The impact of giving Bruceine a biolarvical against behavioral response of <i>Aedes aegypti</i> Linnaeus larvae and its toxicity on Vero cells Dwi Sutiningsih, Mustafa, Tri Baskoro Tunggul Satoto and Edhi Martono
14.45 – 15.00	BP-O-16	Antiangiogenic activity of <i>Spathoglottis plicata</i> leaves chloroform extract in chick embryo Chorio Allantoic Membrane (CAM) Rika Trianasari, Diana Cahya Ningrum, Indah Nur'aini, Nadiyah Ahfadzani and Bambang Retnoaji

Bio-Prospecting
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session I
 Moderator : Woro Anindito Sri Tunjung, M.Sc., Ph.D.
 Room : Carnation

Time	Code	Titles & Authors
13.00 – 13.15	BP-O-17	Cut off determination of HER-2 scoring statusbased on qPCR technique in frozen and archival, Formalin Fixed, Paraffin Embedded (FFPE) tissue of breast cancer <i>Desriani, Bugi Ratno Budiarto, Farida Mirnawati, Wirsma Arif Harahap and Noza Hilbertina</i>
13.15 – 13.30	BP-O-18	Detection of asymptomatic, submicroscopic and spatial analysis of malaria pre-elimination in Eastern Indonesia <i>Jontari Hutagalung, Kusnanto H, Supargiyono, Sadewa AH, Satyagraha AW, Novijanti Rintis, Garjito TA, Prihatin MT, Purwono, Darojatun Ida, Bai Apris, Bansai Immanuel, Kikho Samueland Hananta L</i>
13.30 – 13.45	BP-O-19	HER-2 Ile655Val detection in breast cancer using single closed tube Tm Shift SYBR2 Green I qPCR for supporting personalized therapy <i>Shabrina Syifa Ghaisanni, Senja Rahayu Kinanti, Isna Nurhayati, Niken Satuti Nur Handayani, Dwi Wulandari, Bugi Ratno Budiarto and Desriani</i>
13.45 – 14.00	BP-O-20	Nutraceutical quality of <i>Capsicum annuum</i> L. 'Katokkon' fruit in response to colchicine treatment <i>Reisky Megawati Tammu, Budi Setiadi Daryono and Tri Rini Nuringtyas</i>
14.00 – 14.15	BP-O-21	Solid dispersion from <i>Orthosiphon stamineus</i> with anticancer properties <i>Lusiana Arifianti, Sukardiman, Mulja Hadi Santosa and Tri Widiantani</i>
14.15 – 14.30	BP-O-22	Preventing the Formation of Atherogenic Lesion on Type 2 Diabetes Patient with Devil's Horse Whip (<i>Achyranthes aspera</i>) <i>Dion Adiriesta, Dewananda Megaria Ardiani, Raden Mas Ravi Hadyan, Novra Arya Sandi and Siti Isrina Oktavia Salasia</i>
14.30 – 14.45	BP-O-23	Antibacterial activity of kaffir lime (<i>Citrus hystrix</i> DC.) leaves and callus <i>Woro Anindito Sri Tunjung, Dassy Liana, Hennisa and Lisna Hidayati</i>

Bio-Prospecting
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session III
 Moderator : Luthfi Nurhidayat, S.Si, M.Sc.
 Room : Carnation

Time	Code	Titles & Authors
10.30 – 10.45	BP-O-24	Growth promoting hormone produced by rhizobacteria isolates from pineapple (<i>Ananas comosus</i> (L) Merr. 'Smooth Cayenne') Auliana Afandi
10.45 – 11.00	BP-O-25	Antioxidant capacity of superheated steam torrefacto roasted <i>Nigella sativa</i> L. Harivaindaran K. Veeriah, Boshra Varastegani and Tajul Aris Yang
11.00 – 11.15	BP-O-26	Egg quality of laying hens fed diets supplemented with purslane (<i>Portulaca oleracea</i>) rich in alpha-linolenic acid Lilik R. Kartikasari
11.15 – 11.30	BP-O-27	Times trends in antihypertensive drug use and hypertension in cohort database 2005-2009 of employees of oil and gas mining in East Kalimantan, Indonesia Erna Kristin, Dwi Indria Anggraini, Alfi Yasmina and Iwan Dwiprahasto

Bio-Prospecting
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session III
 Moderator : Dr. rer. nat. Andhika Puspito Nugroho, S.Si., M.Si.
 Room : Sunflower

Time	Code	Titles & Authors
10.30 – 10.35	BP-P-01	Performance of sleeping goby (<i>Oxyeleotris marmorata</i>) at Cirata Reservoir, West Java Province <i>Titin Herawati, Ayi Yustiati, Atikah Nurhayati and Albar Maulana</i>
10.35 – 10.40	BP-P-02	Potency of the extract of two species agarwood leaves as herbal drink <i>Tri Rini Nuringtyas, Hadi Hendra, Rini Isromarina, Atikah A, Yulisty Soraya Fadhilah, Riko Irwanto, Nastiti Wijayanti and Sukarti Moeljopawiro</i>
10.40 – 10.45	BP-P-03	Combined effects of copper and cadmium on <i>Chlorella pyrenoidosa</i> H.Chick: Growth, subcellular accumulation and distribution of copper and cadmium <i>Andhika Puspito Nugroho, Niken Satuti Nur Handayani and I Gede Angga Pramudita</i>
10.45 – 10.50	BP-P-04	Toxicity and antimalaria assay of ethyl acetate fractions of sponge <i>Ancorina</i> sp. from intertidal zone of Wediombo Beach Yogyakarta <i>Yuni Nurfiana Wulandari, Respati Tri Swasono and Winarto Haryadi</i>
10.50 – 11.00	BP-P-05	The immunomodulatory activity of leaves extracts of gaharu <i>Aquilaria malaccensis</i> lamk and <i>Gyrinops versteegii</i> (gilg.) domke <i>in vitro</i> <i>Anjar Sulistyani, Nastiti Wijayanti and Tri Rini Nuringtyas</i>
11.00 – 11.05	BP-P-06	In Vitro cytotoxic activity of ethyl acetate fractions of marine sponge <i>Calthropella</i> sp. collected from Gunungkidul Coastal Region <i>Fitria Susilowati, Respati Tri Swasono, Winarto Haryadi and Tatsufumi Okino</i>
11.05 – 11.10	BP-P-07	Variation and color stabilization of annato (<i>Bixa orellana</i> L.) seed extract for batik's natural dye <i>Lisna Hidayati, Bernada Brenda Betaria, Theresia Ines Santi, Yekti Asih Purwestri and Tri Rini Nuringtyas</i>

SYMPOSIUM

Computer Science



Computer Science
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session I
 Moderator : Abdul Jalil
 Room : Lotus

Time	Code	Titles & Authors
13.00 – 13.15	CS-O-01	Active battery cell balancing simulation using cell to cell Pulse Width Modulation (PWM) controlled converter by Fuzzy Logic Controller (FLC) <i>Abdul Jalil, Adha Imam Cahyadi, Oyas Wahyunggoro, Dimas Hasbi Habibi, Ghufron Fathoni and Paris Ali Topan</i>
13.15 – 13.30	CS-O-02	An optimal input for role-playing game's combat pace using an active time battle system algorithm <i>Agrivian Anditya and Agus Sihabuddin</i>
13.30 – 13.45	CS-O-03	CPU and memory performance analysis on dynamic and dedicated resource allocation using XenServer in data center environment <i>Haydar Ali Ismail and Mardhani Riasetiawan</i>
13.45 – 14.00	CS-O-04	SHA-2 and SHA-3 based sequence randomization algorithm <i>Kuntoro Adi Nugroho, Arimaz Hangga and I Made Sudana</i>
14.00 – 14.15	CS-O-05	Simulation and experiment based optimization of calligraphy manufacturing using a 5-axis CNC milling machine <i>Muhammad Akhsin Muflikhun, Muslim Mahardika, Subarmono and Heru Santoso Budi Rochardjo</i>
14.15 – 14.30	CS-O-06	Design optimization of tri core PM linear generator using SA and FPA for wave energy conversion system in south coast of Java island <i>F. D. Wijaya, Sarjiya, Muhammad Rifa'i P.S. and Kukuh Daud P.</i>
14.30 – 14.45	CS-O-07	Power estimation of G.A. siwabessy multi-purpose reactor at start-up condition using artificial neural network with input variation <i>Nazrul Effendy, Nur Chalim Wachidah, Balza Achmad, Prasojo Jiwandono and Muhammad Subekti</i>
14.45 – 15.00	CS-O-08	State of Charge (SOC) and State of Health (SOH) estimation on lithium polymer battery via kalman filter <i>Paris Ali Topan, M. Nisvo Ramadan, Ghufron Fathoni, Adha Imam Cahyadi and Oyas Wahyunggoro</i>

Computer Science
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session I
 Moderator : Agus Suryo Wibowo
 Room : Dahlia

Time	Code	Titles & Authors
13.00 – 13.15	CS-O-09	Combat aircraft effectiveness assessment using <i>hybrid multi-criteria decision making</i> methodology Agus Suryo Wibowo, Adhistya Erna Permanasari and Simi Fauziati
13.15 – 13.30	CS-O-10	Geographical information system for mapping accident-prone roads and development of new road using multi-attribute utility method Anik Vega Vitianingsih and Dwi Cahyono
13.30 – 13.45	CS-O-11	Implementation of multi-criteria collaborative filtering on cluster using apache spark Ardhi Wijayanto and Edi Winarko
13.45 – 14.00	CS-O-12	Epilepsy detection on EEG data using backpropagation, firefly algorithm and simulated annealing Auli Damayanti, Asri Bektii Pratiwi and Miswanto
14.00 – 14.15	CS-O-13	Data classification for air quality on wireless sensor network monitoring system using decision tree algorithm Bambang Sugiarto and Rika Sustika
14.15 – 14.30	CS-O-14	Overview on computational-based B-cell epitope prediction: dataset, method and accuracy Binti Solihah and Afiahayati
14.30 – 14.45	CS-O-15	Feature extraction and classification of the indonesian syllables using discrete wavelet transform and statistical features Domy Kristomo, Risanuri Hidayat and Indah Soesanti
14.45 – 15.00	CS-O-16	Enhancing quality of service for egovernment interoperability based on adaptive ontology I Wayan Ordiyasa, Lukito Edi Nugroho, Paulus Insap Santosa and Wahyudi Kumorotomo

Computer Science
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Rini Indrayani
 Room : Lotus

Time	Code	Titles & Authors
15.15 – 15.30	CS-O-17	Increasing the security of MP3 steganography using AES encryption and MD5 hash function <i>Rini Indrayani, Hanung Adi Nugroho, Risanuri Hidayat and Irfan Pratama</i>
15.30 – 15.45	CS-O-18	Optimal cell selection scheme in femtocell networks using bacterial foraging optimization algorithm <i>Sahirul Alam, I Wayan Mustika, Selo and Heng Lalin</i>
15.45 – 16.00	CS-O-19	State of charge estimation of lithium polymer battery using ANFIS and IT2FLS <i>Wahyuni Eka Sari, Oyas Wahyunggoro, Silmi Fauziati and Adha Imam Cahyadi</i>
16.00 – 16.15	CS-O-20	Numerical simulation of the effect of axial distance between two rotors in counter-rotating wind turbine <i>Yosua Heru Irawan and M. Agung Bramantya</i>

Computer Science
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Khurniawan Eko Saputro
 Room : Dahlia

Time	Code	Titles & Authors
15.15 – 15.30	CS-O-21	Development of semi-supervised named entity recognition to discover new tourism places <i>Khurniawan Eko Saputro, Sri Suning Kusumawardani and Silmi Fauziati</i>
15.30 – 15.45	CS-O-22	Fingerprint authentication system using back-propagation with downsampling technique <i>Peter Juma Ochieng, Firmansyah, Kani and Hastuadi Harsa</i>
15.45 – 16.00	CS-O-23	Convolutional Neural Network Implementation for Image-Based Salak Sortation <i>Rismiyati N.A and Azhari S.N.</i>
16.00 – 16.15	CS-O-24	Exploring mobile wallet adoption in indonesia using UTAUT2: An approach from consumer perspective <i>Simon Megadewandanus, Suyoto and Pranowo</i>

Computer Science
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session III
 Moderator : Vincentius Riandaru Prasetyo
 Room : Lotus

Time	Code	Titles & Authors
10.30 – 10.45	CS-O-25	Rating of indonesian sinetron based on public opinion in twitter using cosine similarity Vincentius Riandaru Prasetyo and Edi Winarko
10.45 – 11.00	CS-O-26	Infant's cry sound classification using mel-frequency cepstrum coefficients feature extraction and back propagation neural network Yesy Diah Rosita and Hartarto Junaedi
11.00 – 11.15	CS-O-27	On the new-message notification of information systems Bambang Nurcahyo Prastowo
11.15 – 11.20	CS-P-01	Dengue hemorrhagic fever risk modeling based on casualties and rainfall in Yogyakarta City Cut Madinna Tiraya

Computer Science
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session III
 Moderator : Ardhi W Santoso
 Room : Dahlia

Time	Code	Titles & Authors
10.30 – 10.45	CS-O-28	Comparison of fuzzy filters on synthetic aperture radar image <i>Ardhi W. Santoso, Dwi Pebrianti, Habibah Lateh, Luhur Bayuaji, Tien Sze Lim, and Jasni M. Zain</i>
10.45 – 11.00	CS-O-29	Palm oil plantation area clusterization for monitoring <i>Aufaclav Zatu Kusuma Frisky and Agus Harjoko</i>
11.00 – 11.15	CS-O-30	Combination schemes reversible data hiding for medical images <i>Aulia Arham, Hanung Adi Nugroho and Teguh Bharata Adjii</i>
11.15 – 11.30	CS-O-31	Spinal curvature determination from scoliosis x-ray image using sum of squared difference template matching <i>Bagus Adhi Kusuma, Hanung Adi Nugroho and Sunu Wibirama</i>

Computer Science
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session IV
 Moderator : Dharmayanti
 Room : Lotus

Time	Code	Titles & Authors
13.00 – 13.15	CS-O-32	Indonesian traditional dance motion capture documentation <i>Ega Hagarini, Dharmayanti and Abdus Syakur</i>
13.15 – 13.30	CS-O-33	ARMask apps development as an introduction media to introduce Indonesia Traditional Mask at Sonobudoyo Musuem using facetracking based augmented reality <i>Dias Aziz Pramudita</i>
13.30 – 13.45	CS-O-34	Block-based tchebichef image watermarking scheme using psychovisual threshold <i>Ferda Ernawan, Muhammad Nomani Kabir, Mohamad Fadli and Zuriani Mustaffa</i>
13.45 – 14.00	CS-O-35	Stereo camera – based 3D object reconstruction utilizing semi-global matching algorithm <i>M.S. Hendriyawan Achmad, Widya Setia Findari, Nurnajmin Qasrina Ann, Dwi Pebrianti and Mohd Razali Daud</i>
14.00 – 14.15	CS-O-36	Automated detection and classification techniques of acute leukemia using image processing: a review <i>R.G Bagasjvara, Ika Candradewi, Sri Hartati and Agus Harjoko</i>
14.15 – 14.30	CS-O-37	Evaluation of XBee-Pro transmission range forwireless sensor network's node under forestedenvironments based on Received Signal StrengthIndicator (RSSI) <i>Iswandi, Herlina Tri Nastiti, Ina Eprilia Praditya, and I Wayan Mustika</i>
14.30 – 14.45	CS-O-38	A study on algorithms of pupil diameter measurement <i>Juni Nurma Sari, Hanung Adi N., Lukito Edi N., P. Insap Santosa and Ridi Ferdiana</i>
14.45 – 15.00	CS-O-39	A visual recognition supporting tool for mapping environmental data using handheld measurement instruments <i>Luthfi Zharif, Balza Achmad, Faridah and Mohammad Kholid Ridwan</i>

SYMPOSIUM

Nanosciences and Chemistry



INVITED SPEAKER SCHEULE

Nanosciences and Chemistry

Time	Program	Venue
Thursday, October 27th, 2016		
Symposium session I 13.00 – 14.30	1. Dr. Yateman Arryanto Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada 2. Dr. Hendrik Lintang Ma Chung University, Malang Moderator: Dr. Roto, M.Eng.	Garden
14.30 – 14.45	Photo Session	Garden
Friday, October 28th, 2016		
Symposium session III 10.30 – 11.10	Prof. Shilun Qiu Jilin University, China Moderator: Prof. Dr. Nuryono	Garden

**Nanoscience and Chemistry
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016**

Session : Symposium Session II
 Moderator : Dr. Dwi Siswanta
 Room : Garden

Time	Code	Titles & Authors
15.15 – 15.30	NC-O-01	Synthesis of Gold Nanoparticles Using SDS and Sodium Citrate As Capping Agent and Its Recovery Into Pure Gold Agustina Sus Andreani, Suyanta, Eko Sri Kunarti and Sri Juari Santosa
15.30 – 15.45	NC-O-02	Morphology of One-Time Coated Palladium-Alumina Composite Membrane Prepared by Combined Sol-gel Process and Electroless Plating Technique Ratna Sari, Ratni Dewi, Pardi, Lukman Hakim and Selvie Diana
15.45 – 16.00	NC-O-03	Physico-Chemical Studies of LiM _x Mn _{2-x} O ₄ (M: Mn, Co, Ni, Cr) Prepared by Simple Solid-State Reaction Dyah Purwaningsih, Roto, Hari Sutrisno and Agus Purwanto
16.00 – 16.15	NC-O-04	Post-treatments to Enhance Vertical Alignment of ZnO Nanorods on Glass Substrates by Hydrothermal Deposition Indriana Kartini, Wuri Apriyana, Chotimah, Yateman Arryanto, and Lianzhou Wang

Nanoscience and Chemistry
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Dr. Nurul Hidayat Aprilita
 Room : Frangipani

Time	Code	Titles & Authors
15.15 – 15.30	NC-O-05	Production of Biodiesel from Waste Cooking Oil by Transesterification Reaction Using Nano-CaO/Natural Zeolite Catalysts <i>I Made Wisnu Adhi Putra and Ni Wayan Deswiniyanti</i>
15.30 – 15.45	NC-O-06	Removal of Sulphate and Mn on Synthetic Wastewater in the Sulphate Reducing Bioreactor Using Indonesian Natural Zeolite <i>Endah Retnaningrum and Wahyu Wilopo</i>
15.45 – 16.00	NC-O-07	Mineralogy Variation of Zeolites, Structural Deformation and Its Impact to Tuffaceous Sandstone Diagenetic Anomaly in Kebo-Butak Formation, Sumberan, Yogyakarta <i>Kresna Dwi Payana, Ahmad Radian Karimullah, Rini Fahmita and Anastasia Dewi Titisari</i>
16.00 – 16.15	NC-O-08	Zeolite Loaded Alginate Membran for CO ₂ and CH ₄ Separation <i>Syardah Ugra al Adawiyah, Adhitasari Suratman and Endang Tri Wahyuni</i>

Nanoscience and Chemistry
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Dr. Suherman
 Room : Orchid

Time	Code	Titles & Authors
15.15 – 15.30	NC-O-09	The Use of Electrocoagulation Technique for Paper Mill Wastewater Treatment <i>Galuh Yuliani, Kinia Mitasari and Agus Setiabudi</i>
15.30 – 15.45	NC-O-10	Toxicity Test Of Chrome And Glutaraldehyde To Determine Greener Chemical In Tannery Industry <i>Laili Rachmawati and Mustafidah Udkhiyati</i>
15.45 – 16.00	NC-O-11	Conversion of Green House CO ₂ Gas into Useful Hydrocarbon Gasses by Photoreduction Method over TiO ₂ /SiO ₂ from volcanic ash <i>Endang Tri Wahyuni, Roto and Indra P. Iqbah</i>
16.00 – 16.15	NC-O-12	Coconut Shell Charcoal as A Bioreductor in Roasting Process of Nickel Laterite from Pomalaa, Southeast Sulawesi: Performance and Kinetics Study <i>Andreas Diga P.P., Edi Sugiarto, Sutijan, I Wayan Warmada and Himawan T.B.M. Petrus</i>

Nanoscience and Chemistry
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Dr. Deni Pranowo
 Room : Violet

Time	Code	Titles & Authors
15.15 – 15.30	NC-O-13	Synthesis and Antibacterial Activities of N-Phenylpyrazolines from Veratraldehyde <i>Artania Adnin Tri Suma, Tutik Dwi Wahyuningsih and Deni Pranowo</i>
15.30 – 15.45	NC-O-14	Synthesis of Curcumin Analogs Monoketone Curcumin-9 from Cinnamaldehyde and α-Glucosidase Enzyme Inhibition Assay <i>Yunia Mardianis, Chairil Anwar and Winarto Haryadi</i>
15.45 – 16.00	NC-O-15	New Synthesis of 3-bromo-4'hydroxychalcones and Their Antibacterial Activities <i>Lince Dameria Nadapdap and Tutik Dwi Wahyuningsih</i>
16.00 – 16.15	NC-O-16	Synthesis Isoflavones Derivate : 7-Hydroxy-3',4'-Dimethoxyisoflavone, 7,3',4'-Trimethoxyiso-flavone and 7-O-Acetyl-3',4'-Dimethoxyiso-flavone <i>Sabirin Matsjeh, Chairil Anwar, Eti Nurwening Sholikhah and Anggie Sitta Pradhanti</i>

**Nanoscience and Chemistry
SYMPOSIUM PRESENTATIONSCHEDULE
Friday, October 28th, 2016**

Session : Symposium Session III
 Moderator : Prof. Dr. Nuryono
 Room : Garden

Time	Code	Titles & Authors
11.10 – 11.15	NC-P-01	Effect of Catalyst Addition Skin Against Chicken Egg Characteristics Biodiesel from Waste cooking oil <i>Deni Rahmat</i>
11.15 – 11.20	NC-P-02	Geochemical Characteristic of Geothermal Water around Slamet Volcano, Central Java, Indonesia <i>Kresna Dwi Payana, Ahmad Radian Karimullah, Rini Fahmita and Anastasia Dewi Titisari</i>
11.20 – 11.25	NC-P-03	Mineralogy Variation of Zeolites, Structural Deformation and Its Impact to Tuffaceous Sandstone Diagenetic Anomaly in Kebo-Butak Formation, Sumberan, Yogyakarta <i>Riswahyuli</i>
11.25 – 11.30	NC-P-04	Multi Mycotoxins Analysis In Rice Using Lc-Ms/Ms <i>Dedi Mada</i>

**Nanoscience and Chemistry
SYMPOSIUM PRESENTATIONSCHEDULE
Friday, October 28th, 2016**

Session : Symposium Session IV
 Moderator : Dr.Nurul Hidayat and Drs. Iqmal Tahir, M.Si.
 Room : Garden

Time	Code	Titles & Authors
13.00 – 13.15	NC-O-17	Characterization of Allophane from Gamalama Volcanic Soil, North Maluku, Indonesia Indra Cipta, Nur A. Limatahu, St.Hayatun Nur Abu, Indriana Kartini and Yateman Arryanto
13.15 – 13.30	NC-O-18	Colorimetric Sensing of Fe ³⁺ Ion Based on Redox Reaction with Colloidal Ag Nanoparticles Roto, Marcelina Marcelina, Nurul H. Aprilita, Mudasir Mudasir, Taufik A. Natsir, and Bella Mellisani
13.30 – 13.45	NC-O-19	Study of Heavy Metal Ions Mn(II), Zn(II), Fe(II), Ni(II), Cu(II), And Co(II) Adsorption Using MFe ₂ O ₄ (M=Co ²⁺ , Mg ²⁺ , Zn ²⁺ , Fe ²⁺ , Mn ²⁺ , and Ni ²⁺) Magnetic Nanoparticles As Adsorbent Wahyu Waskito Aji and Edi Suharyadi
13.45 – 14.00	NC-O-20	Humic Acid Coated Fe ₃ O ₄ Nanoparticle for Phenol Sorption Soerja Koesnarpadi, Sri Juari Santosa, Dwi Siswanta and Bambang Rusdiarso
14.00 – 14.15	NC-O-21	Effect of Blend Volume Ratio on Morphology and Surface Properties of PVA/Chitosan Nanofibers Nasikhudin, IntanPuspitasari, Markus Diantoro, Ahmad Kusumaatmaja and KuwatTriyana
14.15 – 14.30	NC-O-22	Micro and Nano Silver-Graphene Composite Manufacturing via Horizontal Vapor Phase Growth (HVPG) Technique Muhammad A. Muflikhun, Gwen B. Castillon, Gil N. C. Santos and Alvin Y. Chua
14.30 – 14.45	NC-O-23	Rapid Synthesis of Silver Nanoparticles Using m-Hydroxybenzoic Acid as Reducing Agent Gusrizal, Sri Juari Santosa, Eko Sri Kunarti and Bambang Rusdiarso
14.45 – 15.00	NC-O-24	Synthesis of Silver Nanoparticles Using o-Hydroxybenzoic Acid, p-Hydroxybenzoic Acid, and o,p-Dihydroxybenzoic Acid As Reducing Agent Dian Susanty, Fadliah, Endang Tri Wahyuni and Sri Juari Santosa

**Nanoscience and Chemistry
SYMPOSIUM PRESENTATIONSCHEDULE
Friday, October 28th, 2016**

Session : Symposium Session IV
 Moderator : Dr. Eko Sri Kunarti and Dr. Suherman
 Room : Frangipani

Time	Code	Titles & Authors
13.00 – 13.15	NC-O-25	Characterization and Photocatalytic Activity of SiO ₂ -TiO ₂ -Polyaniline Nanocomposite <i>Sri Wahyuni, Eko Sri Kunarti, Respati Tri Swasono and Indriana Kartini</i>
13.15 – 13.30	NC-O-26	Synthesis of Fe ₃ O ₄ /TiO ₂ -Co Nanocomposite as Model of Photocatalyst with Magnetic Properties <i>M. Ramadhan, A. R. Pradipta, A. Syoufian and E.S. Kunarti</i>
13.30 – 13.45	NC-O-27	Synthesis of Fe ₃ O ₄ /TiO ₂ -Ni Composite as a Magnetically Recoverable Photocatalyst <i>Shuluh Ashmarisyah, E.S. Kunarti and I. Kartini</i>
13.45 – 14.00	NC-O-28	Cobalt Oxide-Modified Titanium Dioxide Nanoparticle Photocatalyst for Degradation of 2,4-Dichlorophenoxy-Acetic Acid <i>Leny Yuliati</i>
14.00 – 14.15	NC-O-29	The Effect of Chloride Salt Types in Silver Nanowires Morphology Synthesized using Polyol Method <i>Fadilah Fuad, Kemal Maulidiasani, Junaidi and Kuwat Triyana</i>
14.15 – 14.30	NC-O-30	Synthesis of Gold Nanoparticles Using SDS and Sodium Citrate As Capping Agent and Its Recovery Into Pure Gold <i>Agustina Sus Andreani, Suyanta, Eko Sri Kunarti and Sri Juari Santosa</i>

**Nanoscience and Chemistry
SYMPOSIUM PRESENTATIONSCHEDULE
Friday, October 28th, 2016**

Session : Symposium Session IV
 Moderator : Dr. Dwi Siswanta and Dr. Roto
 Room : Orchid

Time	Code	Titles & Authors
13.00 – 13.15	NC-O-31	Utilization of Glycerol with Urea Using Purolite C100 Resin as Catalyst Hary Sulistyо, Wahyudi Budi Sediawan and Suprihastuti Sri Rahayu
13.15 – 13.30	NC-O-32	The Effects Of Grain Size, Oxidizers And Catalysts On Band Gap Energy Of Gelam Wood Carbon Nirwan Syarif and Yuanita Windusari
13.30 – 13.45	NC-O-33	Classification Of Stevia Rebaudiana Using Near Infra Red Spectroscopy And Multivariate Data Analysis Yohanes Martono, Ferdy S. Rondonuwu and Suryasatriya Trihandaru
13.45 – 14.00	NC-O-34	Chitosan Flocculation-sedimentation for Harvesting Microalgae Nannochloropsis sp. Yano Surya Pradana
14.00 – 14.15	NC-O-35	Comparison of Design Method for Making Composite of (PMMA/HA/SERICIN) Alva Edy Tontowi, Kristiani Putri Raharjo, Ray Indra Sihaloho and Dawi Karomati Baroroh
14.15 – 14.30	NC-O-36	Modification of Silica Coated on Iron Sand Magnetic Material with Chitosan Using Grafting Agent of 3-Glycidoxypropyltrimethoxysilane for Adsorption of [AuCl ₄] Muflikhah
14.30 – 14.45	NC-O-37	Effect of shot peening on hardness and pitting corrosion rate on load-bearing implant material AISI ₃ O ₄ Priyo Tri Iswanto, Bambang Hari Priyambodo, Trio Nur Wibowo, Nur Amin and Puput Iin Qu'aini
14.45 – 15.00	NC-O-38	The release of curcumin from glutaraldehyde-crosslinked chitosan/carrageenan film Dwi Siswanta, Arintina Sri Maradewi and Nurul Hidayat Aprilita

**Nanoscience and Chemistry
SYMPOSIUM PRESENTATIONSCHEDULE
Friday, October 28th, 2016**

Session : Symposium Session IV
 Moderator : Dr. Ria Armunanto and Dr. Tutik Dwi Wahyuningsih
 Room : Violet

Time	Code	Titles & Authors
13.00 – 13.15	NC-O-39	Mathematical Modeling of Oryzanol Separation from Rice Bran Oil by Silica-based Batch Adsorption: Equilibrium and Mass Ari Diana Susanti , Wahyudi Budi Sediawan, S.K. Wirawan and Budhijanto
13.15 – 13.30	NC-O-40	Multi Mycotoxins Analysis In Rice Using LC-MS/MS Riswahyuli , Loise R.S, and Niza Nemara
13.30 – 13.45	NC-O-41	Validation of Testing Method for Porcine Contaminant in Meatballs by Real Time-Polymerase Chain Reaction (RTi-PCR) Method Tri Joko Raharjo , Ery Nourika Alfiraza, Esti Enjelina and Deni Pranowo
13.45 – 14.00	NC-O-42	New Lubricant from Used Cooking Oil: Cyclic Ketal of Ethyl 9,10-Dihydroxyoctadecanoate Yehezkiel Steven Kurniawan , Muslih Anwar and Tutik Dwi Wahyuningsih
14.00 – 14.15	NC-O-43	Increasing Yield Strength of AISI 316L Plastically Deformed by Expanded Hole Techniques Urip Agus Salim , Suyitno, Rahadyan Magetsari and Muslim Mahardika
14.15 – 14.30	NC-O-44	Investigation on Palm Fatty Acid Distillate (PFAD) based Alkyd Resin and Styrene as a Coating Material Rochmadi , Budhijanto , M. Fahrurrozi, Suhandono, Febbie Setyaningrum and Adimas Prasetyaaji
14.30 – 14.45	NC-O-45	Study of Thermal Oxidation Duration on The Microhardness, Surface Roughness, And Wettability of Cp-Titanium Cast Benidiktus Tulung Prayoga , Suyitno and Rini Dharmastiti
14.45 – 15.00	NC-O-46	Coating of L-Arginine Modified Silica on Magnetite Through Two Different Sol-Gel Routes Amaria , Nuryono and Suyanta

The 2nd International Conference on Science and Technology 2016

SYMPOSIUM

Physics and Its Applications



INVITED SPEAKER SCHEDULE

Physics and Its Applications

Time	Program	Venue
Thursday, October 27th, 2016		
Symposium session I 13.00 – 13.30	Dr. Wahyu Tri Cahyanto Physics Departemen, Universitas Jenderal Soedirman Moderator: Dr. Moh. Adhib Ulil Abshor	Hibiscus
Friday, October 28th, 2016		
Symposium session III 10.30 – 11.00	Imam Baru Rahardjo, Ph.D. PT Pertamina Geothermal Energy Moderator: Dr. Sintia Windhi Niasari	Hibiscus

Physics and Its Application
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session I
 Moderator : Dr. Moh. Adhib Ulil Abshor
 Room : Hibiscus

Time	Code	Titles & Authors
13.30 – 13.45	PA-O-01	Statistical properties of soft mode turbulence at the high control parameter in nematic liquid crystal <i>Alvera Wulandhanik and Fahrudin Nugroho</i>
13.45 – 14.00	PA-O-02	Chirality analysis on a square chiral metamaterial <i>Juliasih Partini, Kamsul Abraha and Arief Hermanto</i>
14.00 – 14.15	PA-O-03	Effect of chemical reduction temperature on optical properties of reduced Graphene Oxide (rGO) and its potential as supercapacitor device <i>Haris Suhendar, Ahmad Kusumaatmaja, KuwatTriyana and Iman Santoso</i>
14.15 – 14.30	PA-O-04	The effect of ultra-sonication time towards the optical absorbance of graphene oxide (GO) synthesized from graphite pencil rod using electrolysis method <i>Bagas Prakoso, Rita Prasetyowati, W.S. Brams Dwandaru, and Iman Santoso</i>
14.30 – 14.45	PA-O-05	Optimization algorithm for parking problem: a case study in Universitas Gadjah Mada Yogyakarta Indonesia <i>Pekik Nurwantoro</i>
14.45 – 15.00	PA-O-06	Influence of ferrite on fifteen topology generator axial flux permanent magnet to magnet flux density <i>Prih Sumardjati Mulyaseputra, Sasongko Pramono Hadi, F. Danang Wijaya and Suharyanto</i>

Physics and Its Application
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Dr. Moh. Adhib Ulil Abshor
 Room : Hibiscus

Time	Code	Titles & Authors
15.15 – 15.30	PA-O-07	The impact of electrode voltage variation towards optical absorbance of Graphene Oxide (GO) synthesized from pencil 2b material using electrolysis method <i>Arif Rahman, Rita Prasetyowati, W.S. Brams Dwandaru and Iman Santoso</i>
15.30 – 15.45	PA-O-08	The separation of oil/water emulsion used membrane fibers polyacrylonitrile with Dead-end and Cross-flow filtration system <i>Bella Nurfadilah, Ahmad Kusumaatmaja and Kuwat Triyana</i>
15.45 – 16.00	PA-O-09	Optimization of Chitosan/PVA Nanofibers Membrane Concentration and its Prospects for Air Filtration <i>Himayatus Shalihah, Ari Dwi Nugraheni, Ahmad Kusumaatmaja and Kuwat Triyana</i>
16.00 – 16.15	PA-O-10	Study of hydrophilic/hydrophobic property on polyacrylonitrile/cellulose acetate nanofiber membrane <i>Wahyuna Nur, Ahmad Kusumaatmaja and Kuwat Triyana</i>
16.15 – 16.30	PA-O-11	Spreading dynamics of corrosion on metal surface material using site percolation model <i>Ramadian Ridho Illahi, Fahrudin Nugroho and Pekik Nurwantoro</i>

Physics and Its Application
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Dr. Ahmad Kusumaatmaja
 Room : Heliconia

Time	Code	Titles & Authors
15.15 – 15.30	PA-O-12	Pitch rotational motion model and control of glider fix wing unmanned aerial vehicles <i>Tri Kuntoro Priyambodo, Muhammad Shafa Rinardi, Andi Dharmawan and Oktaf Agni Dhewa</i>
15.30 – 15.45	PA-O-13	PID control systems using LQR approach for quadrotor flight stability <i>Andi Dharmawan, Ahmad Ashari and Agfianto Eko Putra</i>
15.45 – 16.00	PA-O-14	Infrared and ultrasonic sensors performance on mobile robot inspection for distance measuring system <i>Riky Tri Yunardi, Winarno and Pujiyanto</i>
16.00 – 16.15	PA-O-15	Design of 9.4 GHz dielectric resonator oscillator with one stage amplifier <i>Yana Taryana, Y. Sulaeman, T. Praludi and Y. Wahyu</i>

Physics and Its Application
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Dr. Sintia Windia Niasari
 Room : Magnolia

Time	Code	Titles & Authors
15.15 – 15.30	PA-O-16	Fractional-N PLL synthesizer for FMCW signal generator with Dual-Mode modulation pattern <i>R. Indra Wijaya, Dayat K, Ros S.N, Bagus E.S, and Dadan M</i>
15.30 – 15.45	PA-O-17	Analysis of three phase inverter using SVPWM as induction motor drive for electric bike application <i>Amir Hamzah, Suwitno, Romy and Ronaldi Hutabalian</i>
15.45 – 16.00	PA-O-18	Application of skew, phase tensor and polar diagram in magnetotelluric data analysis, case studies: Way Silabung geothermal field, Indonesia and Cascadia Subduction Zone, USA <i>Dina Sari Handayani, Rakhmat Nurdiantoro, Sintia Windhi Niasari and Asep Sugianto</i>
16.00 – 16.15	PA-O-19	Magnetotelluric data analysis using Swift skew, Bahr skew, polar diagram, and phase tensor, study case: Yellowstone, US <i>Erick Pranata, SelviMisnia Irawati and Sintia Windhi Niasari</i>
16.15 – 16.30	PA-O-20	Earthquake monitoring system at Physics Department, Universitas Gadjah Mada, Yogyakarta, Indonesia (present and next plan) <i>Afif Rakhman</i>

Physics and Its Application
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session III
 Moderator : Dr. Sintia Windhi Niasari
 Room : Hibiscus

Time	Code	Titles & Authors
11.00 – 11.05	PA-P-01	Power discharge the capacitor for magnetizing permanent magnet multipole <i>Nanang S., Tony K., Novrita I. and Dedi</i>
11.05 – 11.10	PA-P-02	Design & development of Subcritical Assembly for Mo99 Production (SAMOP) <i>Syarip, Tegas S., Edi Trijono B.S. and Endang Susiantini</i>
11.10 – 11.15	PA-P-03	Detection of ethylene (CH_4), acetone ($\text{C}_3\text{H}_6\text{O}$), ammonia (NH_3) gas in exhaled breath of smoker using CO_2 laser photoacoustic spectroscopy with multicomponent analysis <i>Mahardika Yoga Darmawan, M. Ali Joko W. and Mitrayana</i>
11.15 – 11.20	PA-P-04	Analysis of measurement uncertainty of motor-winding temperature rise on washing machine heating-test <i>Himma Firdaus and Nanang Kusnandar</i>

Physics and Its Application
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session IV
 Moderator : Dr.Iman Santoso
 Room : Heliconia

Time	Code	Titles & Authors
13.00 – 13.15	PA-O-21	The effect of temperature substrate of the crystal quality and chemical composition Sn (S0,5Te0,5) thin films contrenecation by vacuum evaporation method <i>Ariswan, Wahyu Lestari and Hilma Eka Masitoh</i>
13.15 – 13.30	PA-O-22	Characterization of CO ₂ laser photoacoustic spectrometer intracavity configuration and its application in measuring aceton (C ₃ H ₆ O) gas concentration of human exhaled breath during exercise on treadmill <i>Mitrayana, N. Muyasaroh, M.A.J Wasono and M.R. Ikhsan</i>
13.30 – 13.45	PA-O-23	Hairpin bandpass filter using defected square groove for S-band radar <i>Teguh Praludi, Yana Taryana, Yaya Sulaeman and Dedi</i>
13.45 – 14.00	PA-O-24	Solar radio burst data processing and overview of type of solar burst detected by CALLISTO system at Sumedang in Indonesia <i>Mario Batubara, Timbul Manik, Peberlin Sitompul, Mustofa Lathief, Muhamad Zamzam and Farahhati Mumtaha</i>
14.00 – 14.15	PA-O-25	Quality inspection system for earthenware products using digital X-ray radiography <i>Gede Bayu Suparta and Andreas C. Louk</i>
14.15 – 14.30	PA-O-26	Transition from Markovian to glassy dynamics in damped Kuramoto-Sivashinsky equation <i>Halim Hamadi, Fahrudin Nugroho and Pekik Nurwantoro</i>
14.30 – 14.45	PA-O-27	Numerical study of dual-stage diffuser using CFD applied to wind turbine in low and fluctuated wind speed area <i>Dani Rifai, Deni Eko Santoso, Dimas Irawan and Ridho Restu Adi</i>
14.45 – 15.00	PA-O-28	Application of pulse electric field for chemical extraction process <i>Prima Asmara Sejati, Rella M., Ardhi W. S.and Arief B.</i>

Physics and Its Application
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session IV
 Moderator : Dr.Edi Suharyadi
 Room : Magnolia

Time	Code	Titles & Authors
13.00 – 13.15	PA-O-29	The calculation of full gravity gradient tensor and its application to fault detection as a geothermal controller in Ambon and Seram Islands <i>Richard Lewerissa, Sismanto, Ari Setiawan and Subagyo Pramumijoyo</i>
13.15 – 13.30	PA-O-30	Vertical electrical sounding analysis for subsurface water bearing identification due to isolated hill <i>Eddy Hartantyo</i>
13.30 – 13.45	PA-O-31	Resistivity distribution of cascadian subduction zone (in the Western Part of United States) from two dimensional inversion of magnetotelluric data <i>Atria Dilla Diambama</i>
13.45 – 14.00	PA-O-32	Identification of andesite distribution in Kalisonggo area using geoelectric and VLF (Very Low Frequency) methods <i>Febrian Dedi Sastrawan and Sismanto</i>
14.00 – 14.15	PA-O-33	Evaluation of combining land and waters data on local gravimetric geoid modelling (case study : D.I. Yogyakarta Coastal area) <i>Halim Wiranata, Leni Sophia Heliani and Nurrohmat Widjajanti</i>
14.15 – 14.30	PA-O-34	Landslide potential analysis using microtremor and slope data on Bengkulu-Kepahiang main road at Km 31-60 <i>Arif Ismul Hadi, Sismanto and Kirbani Sri Brotopuspito</i>
14.30 – 14.45	PA-O-35	Resistivity image of the Parangwedhang geothermal field, Indonesia from synthetic model of magnetotelluric data <i>Sintia Windhi Niasari</i>
14.45 – 15.00	PA-O-36	Static testing of lumbar total disc replacement implant <i>Rela Adi Himarosa and Suyitno</i>

SYMPOSIUM
Geo Maritime



Geomaritime
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session I
 Moderator : Muhammad Kamal, S.Si., M.GIS., Ph.D.
 Room : Tulip

Time	Code	Titles & Authors
13.00 – 13.15	GM-O-01	Review on tsunami risk reduction in Indonesia based on coastal and settlement typology <i>Djati Mardiatno, M. Ngainul Malawani, Dandun Wacano and Despy Nur Annisa A</i>
13.15 – 13.30	GM-O-02	Performance evaluation of ordinary kriging and inverse distance weighting methods for nickel laterite resources estimation <i>Waterman Sulistyana Bargawa and Hendro Purnomo</i>
13.30 – 13.45	GM-O-03	Placement optimization and capacity of wind-based DG to minimize losses by FPA method <i>Dian Budhi Santoso, Sarjiya and Sasongko Pramono Hadi</i>
13.45– 14.00	GM-O-04	Economic valuation of mangrove ecosystem servicesin Coastal Area of Pekalongan City <i>Tiara Sarastika, Rika Harini and Muh Aris Marfai</i>
14.00 – 14.15	GM-O-05	Assessment of hazards in coastal area for maritime sustainable development (Case of tidal flood and shoreline change in Sayung Coastal Area, Demak Regency, Indonesia) <i>Achmad Andi Rif'an, R. Rijanta and Djati Mardiatno</i>
14.15 – 14.30	GM-O-06	Sea level rise of West Sumatra Waters based on multi-satellite Altimetry data <i>Isna Uswatun Khasanah and Masrinedi Umara</i>
14.30 – 14.45	GM-O-07	Integrated border: concept for join management of Indonesia-Malaysia-Thailand maritime border area to enhance the regional economic growth <i>Agung Satriyo Nugroho and Purwo Santoso</i>
14.45 – 15.00	GM-O-08	Co-agglutination rapid test of viral neuro necrosis at Batam and Tanjung Pinang, Sumatra: field trials <i>Surya Amanu, Hamdu H. Putra and Kurniasih</i>

Geomaritime
SYMPOSIUM PRESENTATION SCHEDULE
Thursday, October 27th, 2016

Session : Symposium Session II
 Moderator : Ratih Fitria Putri, S.Si., M.Sc., Ph.D.
 Room : Tulip

Time	Code	Titles & Authors
15.15 – 15.30	GM-O-09	Identification of <i>Rhizophora stylosa</i> based on its spectral reflectance: a preliminary work in Karimunjawa mangrove forest Muhammad Kamal
15.30 – 15.45	GM-O-10	Assessing the capability of Sentinel-2 data for mapping seagrass percent cover in Jerowaru, East Lombok Muhammad Afif Fauzan, Ignatius S. Wisnu Kumara, Rifka N. Yogyantoro, Satrio W. Suwardhana, Nurul Fadhilah, Santi Apriyani, Intansania Nurmalaasari and Pramaditya Wicaksono
15.45 – 16.00	GM-O-11	Spatial modeling for silvofishery and greenbelt to reduce the impact of sea level rise (Case Indramayu coastal area) Desy Wahyuning Tyas, Fredi Satya Candra Rosaji, Muh Aris Marfai and Nurul Khakhim
16.00 – 16.15	GM-O-12	Coastal management based on spatial and temporal B-Value analysis in the Southeast Sulawesi, Indonesia Despry Nur Annisa Ahmad, Abdi Jihad and Djati Mardiatno

Geomaritime
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session III
 Moderator : Muhammad Kamal, S.Si., M.GIS., Ph.D.
 Room : Tulip Room

Time	Code	Titles & Authors
10.30 – 10.45	GM-O-13	Analysis of Geo-maritime-Based Marine and Fisheries Economic Development In Maluku Islands <i>Atikah Nurhayati, Idris and A.H. Purnomo</i>
10.45 – 11.00	GM-O-14	Accuracy assessment of regional and global tide models using terrestrial tide gauges and satellite altimetry data in the coastal waters of Java Island <i>Leni S. Heliani and Maritsa</i>
11.00 – 11.15	GM-O-15	Investigating conservation area based on tsunami hazard mapping in sand dune Parangtritis coastal area <i>Ratih F. Putri, Sunu Wibirama, Sukamdi and Josaphat T.S. Sumantyo</i>
11.15 – 11.30	GM-O-16	Coastal and marine tourism of small islands in the Aru Islands, Maluku <i>Dyah Widiyastuti and Wijaya Ladampa</i>

Geomaritime
SYMPOSIUM PRESENTATION SCHEDULE
Friday, October 28th, 2016

Session : Symposium Session IV
 Moderator : Ratih Fitria Putri, S.Si., M.Sc., Ph.D.
 Room : Tulip Room

Time	Code	Titles & Authors
13.00 – 13.15	GM-O-17	The Community's Livelihood Assets Towards Tidal Flood Hazard In Timbulsloko Coastal Area <i>Lintang Murpratiwi</i>
13.15 – 13.30	GM-O-18	Ground Water Resources Mapping for Small Island Using Geoelectrical Technique The Case Study of Ternate Island <i>M. Pramono Hadi, Ramdani Salam and Rahim Achmad</i>
13.30 – 13.45	GM-O-19	Coastal Acidification as Nutrients over Enrichment: A Case Study in Ambon Bay, Indonesia <i>Idha Y. Ikhnsani, Donna M. Siahaya and Frilla R.T. Saputra</i>
13.45 – 14.00	GM-O-20	Volcano-Tectonic Control Of Andesite Potential Distribution at Kulonprogo Mountainous Area, Yogyakarta-Indonesia <i>Asmoro Widagdo, Subagyo Pramumijoyo, Agung Harijoko and Ari Setiawan</i>
14.00 – 14.15	GM-O-21	Land Use Changes Analysis To Land Subsdence Hazard In Coastal Areas (Case Study: North Semarang Sub-District) <i>Ghefra R. Gaffara, Dyah R. Hizbaron and M. Aris Marfai</i>



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