



BADAN PENERBIT DAN PUBLIKASI
UNIVERSITAS GADJAH MADA



THE 3rd INTERNATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY

11–12 July 2017 / Yogyakarta, Indonesia

5th Asian Network for Natural and Unnatural Material

2nd Computer Symposium

2nd Geomaritime Symposium

1st OMICS Symposium: from Genomics to Metabolomics

1st Infrastructure Technology Symposium

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Presentation guidelines

Presentations are held in panels with various presenters per session. Your slides will be projected with a projector on to a screen. It is not possible that you use your own computer for your own presentation. Each speaker is responsible for the content of their presentation.

Uploading your presentation

- Computers will be provided during registration in front of the conference room, for you to upload your presentation.
- We would greatly appreciate, if you can save your presentation in PowerPoint 2007 (or earlier) compatible format.
- It is extremely important that you bring your presentation on a USB memory stick or CD-ROM.
- We recommend you to bring your presentation on two different media (e.g. on 2 USB stick, or on one USB stick and on one CD in parallel).
- We cannot take responsibility for media formats other than CD-ROM or USB memory.
- Please do NOT use VIDEOs embedded in the presentation.

Audio visual and room set up

Each session room will be equipped with the following set up:

- | | |
|---|---|
| <ul style="list-style-type: none">▪ Laptop▪ Projector▪ Single screen▪ Microphone | <ul style="list-style-type: none">▪ Laser pointer▪ One/two committee members▪ One moderator |
|---|---|

Oral presentation guidelines

Each oral presenter is allocated 15 minutes for their oral presentation, with an advised 10 minutes in presentation length, and additional 5 minutes left for questions/answers. Based on the allocated presentation time, your presentation should comprise approximately 10–12 PowerPoint slides.

Poster presentation guidelines

Poster presentations at ICST 2017 will be conducted as **flash presentation** and **guided poster** on both days of the conference. In the flash presentation, author should present their poster in PowerPoint presentation max 5 slides in 3–5 minutes, include question/answer time. The session schedule will be same as parallel sessions in each symposium. Author is free to join participants during the session, but author should be available when it is their turn to present and discuss their poster. Your poster must be ready on the first day of conference.

CONFERENCE SCHEDULES



Conference schedules

Tuesday, 11 July 2017

DAY 1

Time	Program	Venue
07:00 – 08:00	Registration	Ballroom lobby
Opening ceremony		
08:00 – 08:30	Prof. Dr. Jumina ICST 2017 Chairman	
08:30 – 08:40	Prof. Ir. Panut Mulyono, M.Eng., D.Eng. Rector of Universitas Gadjah Mada	Ballroom
Plenary session I		
08:40 – 09:40	Prof. David St. C. Black University of New South Wales, Australia Moderator: Dr. Tutik Dwi Wahyuningsih, M.Si.	Ballroom
09:40 – 10:00	Coffee break and poster session I	
Plenary session II		
10:00 – 11:00	Prof. Dr. Ir. Hasanuddin Z. Abidin, M.Sc.Eng. Head of Geospatial Information Agency, Indonesia Moderator: Dr.Eng. Sunu Wibirama, S.T., M.Eng	Ballroom
11:00 – 12:00	Prof. Dr. Ir. Sunjoto, Dip.HE., DEA. Universitas Gadjah Mada, Indonesia Moderator: Intan Supraba, S.T., M.Sc., Ph.D.	
12:00 – 13:00	Lunch and prayer	Ballroom lobby
13:00 – 15:00	Symposia session I	Parallel rooms
15:00 – 15:15	Coffee break and poster session II	Front of parallel rooms
15:15 – 16:15	Symposia session II	Parallel rooms

ANNUM symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Hibiscus

Time	Code	Title and Authors
Symposium session I		
Moderator: Dr. Tutik Dwi Wahyuningsih, M.Si.		
13:00 – 13:05	AP-01	Evaluation potential hazard of the fuel station existence to experimental reactor power (EPR) plant June Mellawati
13:05 – 13:10	AP-02	The blending of EPDM/NR with maleic anhydride as compatibilizer: comparing the effect of accelerators on cure characteristic and mechanical properties Hesty Eka Mayasari, Ike Setyorini, and Arum Yuniar
13:10 – 13:15	AP-03	Nanoencapsulating coconut shell liquid smoke with coacervation and spray drying method using arabic gum and maltodextrin as encapsulant A.Y.Y. Pamungkas, P. Darmadi, and Y. Pranoto
13:15 – 13:20	AP-04	Synthesis of composite material based on Na-Lignosulfonate from isolation of wood sawdust to control urea release Arif Cahyo Imawan, Yehezkiel Steven Kurniawan, Muhammad Fernadi Lukman, Jumina, Triyono, and Dwi Siswanta
13:20 – 13:25	AP-05	An electrochemical characterization of DNA porcine biosensor utilizing screen printed gold electrode based on different supporting electrolyte Emma Izzati Zakariah, Haslina Ahmad, Lee Yoke Heng, and Siti Aishah Hasbullah
13:25 – 13:30	AP-06	Inhibition of cancer cell invasion by novel sulfonamide derivatives Kang Seong-Mook, Song Jie-Young, Choi Hyun Kyung
13:30 – 13:50	Dr. Siti Aishah Hasbullah	Faculty of Science and Technology, Universiti Kebangsaan Malaysia, Malaysia
13:50 – 14:10	Dr. Won Koo Lee	Department of Chemistry, Sogang University, Korea
14:10 – 14:30	Dr. Rakesh Kumar	Department of Chemistry, University of Delhi, India

Time	Code	Title and Authors
14:30 – 14:45	AO-001	Development of C-arylcalix[4]resorcinarenes and C-arylcalix[4]pyrogallolarenes as antioxidant and UV-B protector Jumina , Dwi Siswanta, Abdul Karim Zulkarnain, Sugeng Triono, Priatmoko, Emmy Yuanita, Nela Fatmasari, and Ikhsan Nursalim
14:45 – 15:00	AO-002	Monoketone curcumin: synthesis and their activity against α -glucosidase Chairil Anwar , Tutik Dwi Wahyuningsih, Intan Kurnia Puteri, and Rahma Dian Martha

Symposium session II

Moderator: Prof. Dr. Jumina

15:15 – 15:35	Prof. Keisuke Ohto Saga University, Japan
15:35 – 15:55	Prof. H.M. Chawla Indian Institute of Technology, India
15:55 – 16:15	Prof. Neena Mehta Department. of Biochemistry, Rayat Bahra Dental College Kharar (Mohali), India
16:15 – 16:30	AO-003 Biological evaluation of <i>n</i> -acetylhydantoin and benzalhydantoins as antibacterial agents Ika Wiani Hidayat , Dadan Sumiarsa, and Ani Riyani
16:30 – 16:45	AO-004 Dissolution enhancement of simvastatin by β -cyclodextrin inclusion complex with freeze drying and co-evaporation method Rochmy Istikharah , Dewi Yuliana, Wawan Afrianto, and Yandi Syukri

ANNUM symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Sunflower

Time	Code	Title and Authors
Symposium session I		
Moderator: M. Idham D.M., S.Si., M.Sc.		
13:00 – 13:05	AP-07	Antiseptic formulation of libo extract (<i>Ficus varieagata</i> Blume) Rolan Rusli , Mirhansyah Ardana, and Shyntia Mutiarasari Tambunan
13:05 – 13:10	AP-08	Study the production of bioethanol from organic waste dried leaves Mohamad Syafaat , Akhmad Alwan, Hendri Piliang, and Musaddiq Musbach
13:10 – 13:15	AP-09	Termitecidal activity of <i>Toona sinensis</i> wood vinegar against <i>Coptotermes curvignathus</i> Morina Adfa , Arif Juliari Kusnanda, Wendra, Charles Banon, Mai Efdi, and Mamoru Koketsu
13:15 – 13:20	AP-10	The comparison of patchouli oil extraction using conventional hydrodistillation and microwave hydrodistillation methods Heri Septya Kusuma , Ali Altway, and Mahfud Mahfud
13:20 – 13:25	AP-11	Bioconversion of palm oil into biosurfactant by <i>Halomonas meridiana</i> BK-AB4 for the application of corrosion inhibitor Ira Prima Sari , Muhammad Imam Basiruddin, and Rukman Hertadi
13:25 – 13:45	Prof. Rajesh Sawhney	Department of Microbiology with Rayat-Bahra Dental College & Hospital, India
13:45 – 14:05	Prof. Mamoru Koketsu	Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, Japan
14:05 – 14:25	Dr. Lee Wah Lim	Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, Japan
14:25 – 14:40	AO-005	Toxicity and antimalaria activity of ethyl acetate fraction of Indonesian sponge <i>Acanthella cavernosa</i> R.T. Swasono , I. Wijanarko, D.S.N. Safitri, T.J. Raharjo, and H.D. Pranowo

Time	Code	Title and Authors
14:40 – 14:55	AO-006	Substituent effect and in vitro cytotoxicity test of chalcone and flavone derivatives against cervix (HeLa) and colon (WiDr) cancer cells Nendrowati , Sabirin Matsjeh, Bambang Purwono, Chairil Anwar, Eti Nurwening Sholikhah, and Yogo Dwi Prasetyo
Symposium session II		
Moderator: Dr. Indriana Kartini, M.Sc.		
15:15 – 15:35	Prof. Bohari M. Yamin	Academy of Sciences Malaysia, Malaysia
15:35 – 15:55	Prof. Kristian Handoyo Sugiyarto	Faculty of Mathematics and Natural Sciences, Universitas Negeri Yogyakarta, Indonesia
15:55 – 16:15	Prof. Diwan S. Rawat	Department of Chemistry, University of Delhi, India
16:15 – 16:30	AO-007	Preparation of water repellent layer on glass using hydrophobic compound modified rice hull ash silica Alfa Akustia, Nuryono , Dessy Puspa Aryanti, Madjid Arie Wibowo, Eko Sri Kunarti, Indriana Kartini, and Bambang Rusdiarso
16:30 – 16:45	AO-008	Wet impregnation of copper oxide on Lampung natural zeolite as an adsorbent to produce oxygen-enriched air using PSA technique Andrea Rizky Sabrina Harahap , Adenia Gita Dianty, and Setijo Bismo

ANNUM symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Lotus

Time	Code	Title and Authors
Symposium session I		
Moderator: Prof. Dr. Mudasir Matsjeh, M. Eng.		
13:00 – 13:05	AP-12	Biosorption of chromium (III) on sodium hydroxide biosorbent activated of coconut coir fiber Diah Prihatiningsih, Emmy Sahara, and I Wayan Sudiarta
13:05 – 13:10	AP-13	The effect of alum addition on the shrinkage temperature, chemical properties and morphology in the manufacture of vegetable-tanned leather Emiliana Kasmudjiastuti, Bidhari Pidhatika, Gresy Griyanitasari, and Iwan Fajar Pahlawan
13:10 – 13:15	AP-14	Dispersing agent of KCl Salt and reinforcing agent of microfibrillated cellulose of bamboo in preparation of biocomposites-sago starch based affecting mechanical property Silviana, Puji Rahayu, Rifaldi Maulana Hasbi, Arisiani Melatika Muthia Hanif, and Nur 'Aini Hamada
13:15 – 13:20	AP-15	Synthesis and characterization of K ₂ O/MCM-41 from Lapindo mud by sonochemical method for transesterification catalyst of used cooking oil Dwi Putra Wijaya, Triyono, Wega Trisunaryanti, and Kumala Dewi
13:20 – 13:25	AP-16	Crystallinity-mechanical property relationship of polypropylene/starch blends A.S.Handayani, I.S. Purwaningsih, L.Marlina, E.Kustiyah, and M.Chalid
13:25 – 13:45	Dr. Shweta Sharma	Institute of Forensic Science and Crimatology, Panjab University, India
13:45 – 14:05	Prof. Surinder K. Mehta	Department of Chemistry and Center of Advanced Studies in Chemistry, Panjab University, India
14:05 – 14:20	AO-009	Cation sensing capabilities of nitrophenyl cinnamaldehyde derivative Venty Suryanti, Fajar Rakhman Wibowo and Meiyanti R. Kumala Sari
14:20 – 14:35	AO-010	The hydrolysis of teak and silk wood sawdust to produce reducing sugar Kristina Theresia Leto and Suprapto

Time	Code	Title and Authors
14:35 – 14:50	AO-011	Physical mixture interaction of acetaminophenol with naringenin Normyzatul Akmal Abd Malek, Hamizah Mohd Zaki, and Mohammad N. Jalil
Symposium session II		
Moderator: Dr. Dwi Siswanta, M.Eng.		
15:15 – 15:35		Prof. Manihar Situmorang Universitas Negeri Medan, Indonesia
15:35 – 15:55		Dr. Paulina Taba Department of Chemistry, Universitas Hasanuddin, Indonesia
15:55 – 16:15		Dr. Jaslin Ikhsan Faculty of Mathematics and Natural Sciences, Universitas Negeri Yogyakarta, Indonesia
16:15 – 16:30	AO-012	Modified silica adsorbent from volcanic ash for Cr(VI) anionic removal E.T. Wahyuni , R.Roto, F.A. Nissah, Mudasir, and N.H. Aprilita
16:30 – 16:45	AO-013	Comparison of classical and quadratic van der waals mixing rules in predicting VLE of ethanol + water and CO ₂ + ethanol systems using Peng-Robinson EoS Gede Wibawa , Annas Wiguno, Ni Made Veriska Kumalasari, Kartika Eka Pangestuti, and Rizky Tetrisyanda

ANNUM symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Heliconia

Time	Code	Title and Authors
Symposium session I		
Moderator: Prof. Dr.rer.nat. Nuryono, M.S.		
13:00 – 13:15	AO-014	Synthesis and photoactivity of $\text{Fe}_3\text{O}_4/\text{TiO}_2\text{-Co}$ as a magnetically separable visible light responsive photocatalyst Eko Sri Kunarti , Indriana Kartini, Akhmad Syoufian, and Karolina Martha Widyandari
13:15 – 13:30	AO-015	Effect of reducing agents on physical and chemical properties of silver nanoparticles Roto , Hani P. Rasydta, Adhitasari Suratman, and Nurul H. Aprilita
13:30 – 13:45	AO-016	Effect of N-methyl-2-pyrrolidone (NMP) in the coagulation bath via wet phase inversion method Saviera Yonita , Sulistyo, Aristo Taufiq, Teguh Smedi Bayu A., Sunardi, Gunawan S. Prihandana, Tutik Sriani, and Muslim Mahardika
13:45 – 14:00	AO-017	Synthesis of gold nanoparticles using p-aminobenzoic acid and p-aminosalicylic acid as reducing agent Abdul Aji , Eko Sri Kunarti, and Sri Juari Santosa
14:00 – 14:15	AO-018	The adsorption of phenol using iron-based mesoporous silica SBA-15 Yuvita Eka Pertiwi , Maria Ulfa, Teguh Endah Saraswati, and Bakti Mulyani
14:15 – 14:30	AO-019	Downed-size of montmorillonite nanoparticles by co-precipitation techniques Yohana I. Kedang and Lukman Atmaja
14:30 – 14:45	AO-020	Synthesis of patchouli biochar-nanoparticle Cr_2O_3 composite for photodegradation of organic contaminant Tutik Setianingsih , Masruri, and Bambang Ismuyanto
14:45 – 15:00	AO-021	Extracellular biosynthesis of silver nanoparticles using bacteria from silvercraft waste and its antifungal activity Afrizka Premana Sari , Harsojo, and Endang Sutariningsih Soetarto

Time	Code	Title and Authors
Symposium session II		
Moderator: Prof. Dr.rer.nat. Harno D. Pranowo, M.Si.		
15:15 – 15:30	AO-022	Density-functional-theory calculations of formation energy of the nitrogen-doped diamond Hana Pratiwi Kadarisman, Sholihun , and Pekik Nurwantoro
15:30 – 15:45	AO-023	Chemometric analysis of FTIR spectra from cultured muscle cells (L6) treated with anti-diabetic metals (V, Mo, W, and Cr) Anna Safitri , Aviva Levina, Joonsup Lee, Elizabeth A. Carter, and Peter A. Lay
15:45 – 16:00	AO-024	Dye-sensitized solar cell simulation performance using MATLAB Alvin Muhammad Habieb , Muhammad Irwanto, Hendri Widiyandari, and Vincencius Gunawan
16:00 – 16:15	AO-025	Theoretical study of the effect of macrocyclic ring size on the corrosion inhibition efficiency of some crown ether Saprizal Hadisaputra , Saprizal Hamdiani, and Nuryono
16:15 – 16:30	AO-026	QMCF-MD simulation and NBO analysis of K(I) ion in liquid ammonia Yuniawan Hidayat , Ria Armunanto, and Harno Dwi Pranowo
16:30 – 16:45	AO-027	The dynamical properties of Cu+ in liquid ammonia: a quantum mechanical charge field (QMCF) molecular dynamics study Wahyu Dita Saputri , Karna Wijaya, and Ria Armunanto

ANNUM symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Violet

Time	Code	Title and Authors
Symposium session I		
Moderator: Dr. Indriana Kartini, M.Sc.		
13:00 – 13:15	AO-028	The simulation of the melt viscosity effect on the rate of solidification in polymer by using ordinary differential numerical methods <u>Hanindito Haidar Satrio</u> , Muhammad Joshua Y.B., Arbi Irsyad Fikri, Mochamad Chalid, and Jaka Fajar Fatriansyah
13:15 – 13:30	AO-029	Corn spaghetti quality assessment on increased production capacity <u>Enny Sholichah</u> and Novita Indrianti
13:30 – 13:45	AO-030	Comparative study on properties of the composite edible films: carrageenan-beeswax and chitosan-beeswax <u>Enny Sholichah</u> , Novita Indrianti, Nok Afifah, and Doddy A. Darmayana
13:45 – 14:00	AO-031	Preparation and characterization of heat moisture treated sweet potato starch film <u>Novita Indrianti</u> , Yudi Pranoto, and Akmadi Abbas
14:00 – 14:15	AO-032	The effect of shot peening duration and steel ball diameter on microstructure, surface roughness, and surface hardness of 316L biomaterial Priyo Tri Iswanto, Viktor Malau, <u>Erich Umbu Kondi Maliwemu</u> , Asad Saiful Bahri, and Puput Iin Qur'aini
14:15 – 14:30	AO-033	Influence of chemical treatments sequence on internal microstructure and crystallinity of sorghum fibres <u>Ismojo</u> , Abdul Aziz Ammar, Ghiska Ramahdita, and Mochamad Chalid
14:30 – 14:45	AO-034	A comparative study of characterization on 2D and 3D chitosan/gelatin/silica bio-composite <u>Yuni Kusumastuti</u> , Dwi Reinaldy Gunawan, Mazaya Najmina, and Francisca Larasati
14:45 – 15:00	AO-035	Preparation of biodegradable film – cassava bagasse starch-based reinforced chicken feet gelatine, citric acid as crosslinker, and glycerol as plasticizer <u>Silviana</u> , Piontek Benedictus Brandon, and Bella Ayu Silawanda

Time	Code	Title and Authors
Symposium session II		
Moderator: Akhmad Syoufian, S.Si., Ph.D.		
15:15 – 15:30	AO-036	Taguchi optimization for conversion of n-butanol into 1,1-dibutoxybutane by Fe/activated carbon catalyst Mohammad Fajar Pradipta , Femininda Ichika Kartika, and Iip Izul Falah
15:30 – 15:45	AO-037	Corrosion inhibition of aluminum alloys friction stirred dissimilar metal welds in 3.5% NaCl solution using polarization resistance and electrochemical impedance spectroscopy (EIS) FX. A. Wahyudianto , M. N. Ilman, P. T. Iswanto, and Kusmono
15:45 – 16:00	AO-038	The effect of alkaline activator types on strength and microstructural properties of geopolymers from co-combustion residuals of bamboo and kaolin Aprilina Purbasari , Tjokorde Walmiki Samadhi, and Yazid Bindar
16:00 – 16:15	AO-039	The effect of electricity source from bio-reactor microbial fuel cell to Cr (VI) waste treatment Prapti Ira Kumalasari , and Sri Rachmania Juliastuti
16:15 – 16:30	AO-040	Tofu industrial wastewater treatment with ozonation and adsorption method using natural zeolite Eva Fathul Karamah, Linggar Anindita , and Ika Putri Adiripratwi
16:30 – 16:45	AO-041	Synthesis and application of $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{TiO}_2$ nanocomposite as photocatalyst in CO_2 indirect reduction to produce methanol fuel Yudha Ramanda , Saifuddin Aziz, and Eko Sri Kunarti

ANNUM symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Primrose

Time	Code	Title and Authors
Symposium session II		
Moderator: Prof. Dr.rer.nat Karna Wijaya, M.Eng.		
15:15 – 15:30	AO-042	Transesterification of used cooking oil using CaO/MCM-41 catalyst synthesized from lapindo mud by sonochemical method Putra Mahardika , Wega Trisunaryanti, Triyono, Dwi Putra Wijaya, and Kumala Dewi
15:30 – 15:45	AO-043	The addition of n-butanol in ethanol-isooctane mixture to reduce vapor pressure of oxygenated-gasoline blend Rendra Panca Anugraha , Zul Akbar Andi Picunang, Annas Wiguno, Rizky Tetrisyanda, Kuswandi, and Gede Wibawa
15:45 – 16:00	AO-044	Residue oil desulfurization using oxidation and extraction method Rizky Tetrisyanda , Annas Wiguno, Rizqy Romadhona Ginting, M. Chadiq Dzikrillah, and Gede Wibawa
16:00 – 16:15	AO-045	Combination of ozonation and adsorption using granular activated carbon (GAC) for tofu industry wastewater treatment Eva Fathul Karamah , Ika Putri Adripratiwi , and Linggar Anindita
16:15 – 16:30	AO-046	Ambient air monitoring of nitrogen dioxide at Kalimati, Tirtomartani, Kalasan, Sleman, Yogyakarta Supriyanto , and Indah Suci Ramadhani
16:30 – 16:45	AO-047	Synthesis and characterization of lignin-based polyurethane as a potential compatibilizer Salma Ilmiati , Jana Hafiza, Elvi Kustiyah, and M. Chalid

Computer symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Tulip

Time	Code	Title and Authors
Symposium session I		
Moderator: Prof. Ir. Sunarno, M.Eng., Ph.D.		
13:00 – 13:15	CO-01	The wireless energy transfer recharging system based on the ultra-high frequency by using Yagi-Uda directional antenna Sunarno , Fahmy Rinanda Saputri, Memory Motivanisman Waruwu, and Rony Wijaya
13:15 – 13:30	CO-02	Data service orchestration for law enforcement and open criminal justice data interoperability (National Crime Information Center, Indonesian National Police Case Studies) Muhammad Rinjani , Teguh Bharata Adji, Adhistya Erna Permanasari, and Fahmi Dzikrullah
13:30 – 13:45	CO-03	High-resolution automated Fugl-Meyer assessment using sensor data and regression model Ricky Julianjatsono , Ridi Ferdiana, and Rudy Hartanto
13:45 – 14:00	CO-04	The prediction of energy-absorption on the car crush box Hadi Saputra , Jamasri, and Heru Santoso B. Rochardjo
14:00 – 14:15	CO-05	Machinery equipment early fault detection Using artificial neural network based autoencoder Teguh Handjojo Dwiputranto , Noor Akhmad Setiawan, and Teguh Bharata Adji
14:15 – 14:30	CO-06	A review on driver drowsiness based on image, bio-signal, and driver behavior Bagus Pratama , Igi Ardiyanto, and Teguh Bharata Adji
14:30 – 14:45	CO-07	Cost-based power distribution optimization scheduling in microgrid Andhika Maharsi , Danang Wijaya, and I Wayan Mustika

Time	Code	Title and Authors
Symposium session II		
Moderator: Prof. Ir. Sunarno, M.Eng., Ph.D.		
15:30 – 15:45	CO-08	Performance comparison of SISO and MIMO-OFDM based on SDR platform Ridlo Qomarrullah, I Wayan Mustika, Selo Sulistyo, and Satriyo Dharmanto
15:45 – 16:00	CO-09	Real time monocular visual odometry using optical flow: study on navigation of quadrotors UAV Syaiful Mansur, Muhammad Habib, Gilang Nugraha Putu Pratama, Adha Imam Cahyadi, and Igi Ardiyanto

Computer symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Dahlia

Time	Code	Title and Authors
Symposium session I		
Moderator: Dr. Ridi Ferdiana, S.T., M.T.		
13:00 – 13:15	CO-10	Comparison of machine learning algorithms for soil type classification Pramudyana A. Harlianto , Noor Akhmad Setiawan, and Teguh Bharata Adji
13:15 – 13:30	CO-11	Web engineering education through blended learning Ridi Ferdiana
13:30 – 13:45	CO-12	Linking dimensions to support tourism recommender system Kusuma Adi Achmad , Lukito Edi Nugroho, Achmad Djunaedi, and Widy Widyawan
13:45 – 14:00	CO-13	Mango leaf image segmentation on HSV and YCbCr color spaces using otsu thresholding Eko Prasetyo , R. Dimas Adityo, Nanik Suciati, and Chastine Fatichah
14:00 – 14:15	CO-14	The application of wavelet recurrent neural network for lung cancer classification Devi Nurtiyasari , Dedi Rosadi, and Abdurrahman Abdurrahman
14:15 – 14:30	CO-15	Parallel implementation of genetic algorithm for searching optimal parameters of artificial neural networks Eko Nugroho , Moh Wibowo, and Reza Pulungan
14:30 – 14:45	CO-16	Long distance automatic number plate recognition under perspective distortion using zonal density and support vector machine Noprianto , Sunu Wibirama, and Hanung Adi Nugroho
Symposium session II		
Moderator: Dr. Ridi Ferdiana, S.T., M.T.		
15:30 – 15:45	CO-17	Research of university sites internal links distribution Ivan Blekanov , Aleksey Maksimov, Sergei Sergeev, and Roman Moskalets
15:45 – 16:00	CO-18	Performance comparison of caching strategy on wordpress multisite Mandahadi Kusuma , Widy Widyawan, and Ridi Ferdiana

Geomaritime symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Irish

Time	Code	Title and Authors
Symposium session I		
Moderator: Ratih Fitria Putri, M.Sc., PhD		
13:00 – 13:20	Dr. Luhur Bayuaji	Universiti Pahang Malaysia, Malaysia
13:20 – 13:40	Dr. I Made Andi Arsana	Universitas Gadjah Mada, Indonesia
13:40 – 14:00	Dr. I Wayan Gede Astawa Karang	Universitas Udayana, Indonesia
14:00 – 14:15	GO-01	Oligocene-Pleistocene paleogeography within Banyumas Basin and implication to petroleum potential Eko Bayu Purwasatriya , Sugeng Sapto Surjono, and D. Hendra Amijaya
14:15 – 14:30	GO-02	Ship detection in Madura Strait and Lamong Gulf using Sentinel-1 SAR data Filsa Bioresita , Cherie Bhakti Pribadi, and Hana Sugiantu Firdaus
14:30 – 14:45	GO-03	Geomaritime strategies of Indonesia maritime routes confronting Thailand's Kra Canal plan Fika Monika and M. Baiquni
Symposium session II		
Moderator: Ratih Fitria Putri, M.Sc., Ph.D.		
15:15 – 15:30	GO-04	Spatio-temporal characteristics of sea level anomaly in the Indonesian water Dina A. Sarsito , Kosasih Prijatna, Dudy D. Wijaya, Ivonne M. Radjawane, Wiwin W. Pranata, and Nur F Trihantoro
15:30 – 15:45	GO-05	Sustainable and contextual utilization of underground river in the arid area Waterman Sulistyana Bargawa
15:45 – 16:00	GO-06	Remote sensing analysis to assess the impact of sea-cage aquaculture intensification to benthic habitat condition in Lampung Bay Abdullah Arif K , Ana Ariasari, Erisa Ayu W, Henki Riko P, Ika Nurfaidah, Made Dwipayana, Maratul Muslimah, and Pramaditya Wicaksono

Time	Code	Title and Authors
16:00 – 16:15	GO-07	Granulometry analysis of Ngrayong Sandstone, Tempuran Area, Rembang Zone, North East Java Basin Myo Min Htun , Sugeng Sapto Surjono, and Jarot Setyowiyoto

Infrastructure technology symposium schedule

DAY 1

Date : Tuesday, 11 July 2017

Room : Carnation

Time	Code	Title and Authors
Symposium session I		
Moderator: Ali Awaludin, S.T., M.Eng., Ph.D.		
13:00 – 13:30		Prof. Ir. Bambang Suhendro, M.Sc., Ph.D. Universitas Gadjah Mada, Indonesia
13:30 – 14:00		Prof. Ir. Henricus Priyosulistyo, Ph.D. Universitas Gadjah Mada, Indonesia
14:00 – 14:15	IO-01	Full height rectangular opening castellated steel beam with diagonal stiffener Muhamad Rusli A., Ali Murtopo, Iman Satyarno , and M. Fauzie Siswanto
14:15 – 14:30	IO-02	Hypocenter analysis of aftershocks data of the Mw 6.3, May 27 th 2006 Yogyakarta earthquake using oct-tree importance sampling method Asri Wulandari , Ade Anggraini, and Wiwit Suryanto
14:30 – 14:45	IO-03	Cost estimation model for i-girder bridge superstructure using multiple linear regression and artificial neural network Inas Winalytra , Arief Setiawan Budi Nugroho, and Andreas Triwyono
14:45 – 15:00	IO-04	The investigation on setting time and strength of high calcium fly ash based geopolymers Remigildus Cornelis , Henricus Priyosulistyo, Iman Satyarno, and Rochmadi

Date : Tuesday, 11 July 2017

Room : Emerald

Time	Code	Title and Authors
Symposium session I		
Moderator: Muthi' Ikawati, M.Sc., Apt.		
13:00 – 13:15	00-01	Metabolite profiling of black rice (<i>Oryza sativa</i> L.) after infection <i>Xanthomonas oryzae</i> pv. <i>Oryzae</i> Ema Nur Hidayah , Febri Adi Susanto, Tri Joko, Yekti Asih Purwestri, and Tri Rini Nuringtyas
13:15 – 13:30	00-02	Expression of haloacid dehalogenase gene and its protein characterization from <i>Klebsiella pneumoniae</i> ITB1 for Bioremediation of organohalogen pollutants Ridani Rino Anggoro and Enny Ratnaningsih
13:30 – 13:45	00-03	Profile of triiodothyronine (T3) and thyroxine (T4) of female Bali breed cattle transported by traditional vessel from Sumbawa to Pontianak Nichlah Rifqiyah , Hindar Pangaji, and Pudji Astuti
13:45 – 14:00	00-04	Simultaneous clustering analysis with molecular docking approach for discovery of type 2 antidiabetic compounds in network pharmacology Nur Azizah Komara Rifai , Farit Mochamad Afendi, and I Made Sumertajaya
14:00 – 14:15	00-05	The discovery of secondary and tertiary structure of cervical cancer lncRNA biomarker Arli Aditya Parikesit , Nihayatul Karimah, and Didik Huswo Utomo
14:15 – 14:30	00-06	Gold mining waste effect on superoxide dismutases activity of mahogany (<i>Swietenia mahagoni</i> (L.) Jacq.) in Kalirejo, Kulon Progo Miswati , Farah Yuant Nidaa, Setya Handayani, Dwi Umi Siswanti, and Sudjino
14:30 – 14:45	00-07	Cloning and sequencing of acetyl-CoA acetyltransferase gene from <i>Halomonas elongata</i> BK-AG18 and its protein in silico analysis Ni Putu Yuliastri , Enny Ratnaningsih, and Rukman Hertadi
14:45 – 15:00	00-08	Phenotypic identification and numerical taxonomy of pigmented bacteria isolated from marine and freshwater aquatic at Yogyakarta, Indonesia Fitri Indriana Susanti and Endah Retnaningrum

Time	Code	Title and Authors
Symposium session II Moderator: Dr. Tri Rini Nuringtyas, S.Si., M.Sc.		
15:15 – 16:00	Dr. Farit Mochamad Afendi Institut Pertanian Bogor, Indonesia	

Conference schedules

Wednesday, 12 July 2017

DAY 2

Time	Program	Venue
08:00 – 08:30	Registration	Ballroom lobby
Plenary session III Moderator: Dr. Edi Winarko, M.Sc.		
08:30 – 09:30	Prof. Taku Demura, Ph.D. Nara Institute of Science and Technology, Japan	
09:30 – 10:30	Jong Gun Lee, Ph.D. Pulse Lab Jakarta, Indonesia	Ballroom
10:30 – 10:45	Coffee break and poster session III	
10:45 – 12:30	Symposia session III	Parallel rooms
12:30 – 13:15	Lunch and prayer	Ballroom lobby
13:15 – 15:15	Symposia session IV	Parallel rooms
15:15 – 15:30	Coffee break and poster session IV	Front of parallel rooms
Closing ceremony		
Traditional dance performance		
Photo session		
15:30 – 16:00	Widodo, S.P., M.Sc., Ph.D. Head of Badan Penerbit dan Publikasi UGM	Ballroom
Prof. Dr. Suratman Vice Rector for Research and Community Services UGM		

ANNUM symposium schedule

Date : Wednesday, 12 July 2017

Room : Hibiscus

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Dr. Bambang Purwono, M.Sc.		
10:45 – 11:05	Prof. Naresh Kumar	School of Chemistry, University of New South Wales, Australia
11:05 – 11:25	Dr. Ravi P. Singh	Department of Chemistry, Indian Institute of Technology, Delhi, India
11:25 – 11:40	AO-048	An efficient synthesis of bromo substituted 1,3,6-trihydroxyxanthone and their anticancer activity Emmy Yuanita , Harno Dwi Pranowo, Mustofa, Respati Tri Swasono, Jufrizal Syahri, and Jumina
11:40 – 11:55	AO-049	1-(N)-benzyl-substituted-1,10-phenanthrolinium bromide salts: access from wintergreen oil and vanillin Muhammad Idham Darussalam Mardjan , Dhina Fitriastuti, and Jumina
11:55 – 12:10	AO-050	Synthesis of chalcone derivatives and their in vitro anticancer test against breast (T47D) and colon (WiDr) cancer cell line Yogo Dwi Prasetyo , Sabirin Matsjeh, Winarto Haryadi, Chairil Anwar, Eti Nurwening Sholikhah, and Nendrowati
Symposium session IV		
Moderator: Prof. Dr. Jumina		
13:15 – 13:35	Dr. Sanjeev Chauhan	Department of Forestry & Natural Resources, Punjab Agricultural University, India
13:35 – 13:50	AO-051	Self and cross metathesis of methyl oleate with 4-vinyl-1,3-dioxolan-2-one by 2nd Grubbs and Hoveyda-Grubbs catalyst Nor Wahida Awang , Kotohiro Nomura, Ken Tsutsumi, and Bohari M. Yamin
13:50 – 14:05	AO-052	Utilization of sodium lignosulfonate/chitosan for enhanced oil recovery Marya Agustin , Wahyudi Budi Sediawan, and Yuni Kusumastuti
14:05 – 14:20	AO-053	Modification of sweet potato flour (<i>Ipomea batatas</i> L.) using steam explosion Ery Nurlita Wati , Purnama Darmadji, Yudi Pranoto, and Rini Yanti

Time	Code	Title and Authors
14:20 – 14:35	AO-054	Response surface methodology (RSM) on the synthesis of carboxymethyl cellulose (CMC) from jack bean hull (<i>Canavalia enciformis</i> L (DC)): variation of NaOH concentration and NaMCA addition Imasni Satriani , Agnes Murdiati, Purnama Darmadji, and Andriati Ningrum
14:35 – 14:50	AO-055	Cassava (<i>Manihot esculenta</i>) starch modification by steam explosion Dewi Mukhlisoh , Purnama Darmadji, Yudi Pranoto, and Rini Yanti
14:50 – 15:05	AO-056	Metal oxide supported vanadium substituted Keggin type polyoxometalates as catalyst for oxidation of dibenzothiophene Aldes Lesbani , Sarah Novri Meilyana, Nofi Karim, Nurlisa Hidayati, Muhammad Said, Risfidian Mohadi, and Miksusanti

ANNUM symposium schedule

Date : Wednesday, 12 July 2017

Room : Sunflower

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Prof. Dr. Mudasir Matsjeh, M. Eng.		
10:45 – 11:05	Prof. Mark Willcox	University of New South Wales, Australia
11:05 – 11:25	Dr. Yuni K. Krisnandi	Faculty of Mathematics and Natural Sciences, Universitas Indonesia, Indonesia
11:25 – 11:45	Prof. Karna Wijaya	Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia
11:45 – 12:00	AO-057	Hydrocracking of α -cellulose using Co, Ni, and Pd supported on mordenite catalyst Wega Trisunaryanti, Triyono, Ria Armunanto, Lathifah Puji Hastuti, and Desinta Dwi
12:00 – 12:15	AO-058	Natural dye extraction from sappanwood (<i>Caesalpinia sappan L.</i>): evaluation on optimum conditions and extractor design parameters Edia Rahayuning singh, Meita Tias Wahyuningrum, and Budhi Wijayanti
12:15 – 12:30	AO-059	Sequential condensation and hydrodeoxygenation reaction of furfural-acetone adduct over mix catalysts Ni/SiO ₂ and Cu/SiO ₂ in water Siti Mariyah Ulfa, Rizka Fauzia Ohorella, and Caterina Widya Astutik
Symposium session IV		
Moderator: Dr. Dwi Siswanta, M.Eng.		
13:15 – 13:30	AO-060	Hybrid of magnetite and Zn/Al layered double hydroxide (Fe ₃ O ₄ -Zn/Al LDH) for humic acid removal Sri Juari Santosa, Nguyen Van Phuoc, Tran Thi Minh Ha, and Philip Anggo Krisbiantoro
13:30 – 13:45	AO-061	Extraction of essential oil from agarwood (<i>Aquilaria malaccensis</i>) using microwave hydrodistillation method Ditta Kharisma Yolanda Putri, Heri Septya Kusuma, Isabel Triesty, Linda Putri Leksono, and Mahfud
13:45 – 14:00	AO-062	Bioconversion of glycerol to biosurfactant by halophilic bacteria Halomonas elongata BK-AG18 Mieke Alvionita and Rukman Hertadi

Time	Code	Title and Authors
14:00 – 14:15	AO-063	Degradation of batik dye waste remazol brilliant blue using plasma electrolysis method with addition of microbubbles Chandra Dewi Rosalina and Nelson Saksono
14:15 – 14:30	AO-064	Synthesis of biodiesel from palm oil by using cathodic plasma electrolysis Nelson Saksono, Ratih Anditashafardiani, and Jeremia Jan Chandra Pranata
14:30 – 14:45	AO-065	Comparison between latent fingerprint identification using black powder and cyanoacrylates glue Sri Adelila Sari , Ulfah Qalbiah, and Isfin Cahyani Putri
14:45 – 15:00	AO-066	Extraction of kaffir lime (<i>Citrus hystrix</i> DC.) essential oil using steam explosion process Y.W. Wulandari , P. Darmadji, Supriyadi, and A. Chairil

ANNUM symposium schedule

Date : Wednesday, 12 July 2017

Room : Lotus

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Dr. Roto		
10:45 – 11:05	Dr. Neetu Singh	India Institute of Technology, Delhi, India
11:05 – 11:25	Dr. Haryadi	Department of Chemical Engineering, Politeknik Negeri Bandung, Indonesia
11:25 – 11:40	AO-067	Starch nanoparticle formation via oxidation-sonication with hydrogen peroxide addition: influence some factors on particle size Niken Widya Palupi , Purnama Darmadji, Yudi Pranoto, Sutardi, Muthupandian Ashokkumar, Meifang Zhou, Charitha Pahala, and Enrico Colombo
11:40 – 11:55	AO-068	Synthesis and analysis characterization of nanocomposites tin oxide-graphene doping pd using Polyol method Aminuddin Debataraja , Robeth V. Manurung, Lia A. T. W. Asri, Brian Yuliarto, Nugraha, and Bambang Sunendar
11:55 – 12:10	AO-069	Short-time synthesis of titania nanotubes Indriana Kartini , Ira Nur Arba'atul Jannah, Salim Mustofa, Eko Sri Kunarti, and Respati Tri Swasono
Symposium session IV		
Moderator: M. Idham D.M., S.Si., M.Sc.		
13:15 – 13:30	AO-070	Synthesis 2-hydroxy-4,6-dimethoxychalcone, 2-hydroxy-4,6,4'-trimethoxychalcone, 2-hydroxy-4,6,3',4'-tetramethoxychalcone and cytotoxicity test against breast T47D, cervix HeLa and kolon WiDr cancer cells Sabirin Matsjeh , Winarto Haryadi, Bambang Purwono, Eti Nurwening Sholikhah, and Wiwit Sepvianti
13:30 – 13:45	AO-071	Syntheses and antibacterial test of benzoyl pyrazolines from vanillin and veratraldehyde Putra Jiwamurwa Pama Tjilda, Jumina, and Tutik Dwi Wahyuningsih
13:45 – 14:00	AO-072	Activities correlation between extracts and compounds from <i>Eplingera calophrys</i> stems toward bacteria and radical scavenger agent Sahidin , Wahyuni, Muh. Hajrul Malaka, Imran, and Marianti A. Manggau

Time	Code	Title and Authors
14:00 – 14:15	AO-073	Optimization on supercritical CO ₂ extraction process to improve the quality of patchouli oil by response surface methodology approach Edi Priyo Utomo , Marina, Warsito, and Egi Agustian
14:15 – 14:30	AO-074	Synthesis and antimalarial evaluation of chalcones and flavones from vanillin derivatives Bambang Purwono , Alvia Dha Shabriah, and Anggiadita Prissilla
14:30 – 14:45	AO-075	Synthesis and antioxidant activity of C-4-allyloxy-3-methoxyphenylcalix[4]resorcinarene Endah Sayekti , Dwi Siswanta, Mustofa, and Jumina
14:45 – 15:00	AO-076	Characterization and purification of fatty acid methyl ester from kemiri sunan (<i>Reutealis trisperma</i>) using fraction distillation Sarifah Nurjanah , M. Ade Moetangad Kramadibrata, Efri Mardawati, Mimin Muhaemin, Wahyu Daradjat, Handarto, Totok Herwanto, Rosalinda, and Fathia Salsabila Emmaputri

ANNUM symposium schedule

Date : Wednesday, 12 July 2017

Room : Heliconia

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Prof. Dr. Sri Juari Santosa, M.Eng.		
10:45 – 11:00	AO-077	Encapsulation of curcumin in chitosan-pectin beads and its release study <i>Dwi Siswanta, Hariyanti Hutabarat, and Agus Kuncaka</i>
11:00 – 11:15	AO-078	Biosynthesis of silver nanoparticles from exopolysaccharides produced by <i>Bacillus subtilis</i> FNCC 0059 <i>Dwi Junianto, Endang Sutariningsih Soetarto, and Yateman Arryanto</i>
11:15 – 11:30	AO-079	The effect of mold rotational speed on porosity of femoral stem based on neutron tomography and radiography test <i>Sutiyoko, Suyitno, Muslim Mahardika, Fahrurrozi Akbar, Juliani, Setiawan, and Bharoto</i>
11:45 – 12:00	AO-080	Electrically conductive nanocomposites polymer of poly (vinyl alcohol) and multiwall carbon nanotubes: preparation and characterization <i>Fitri Khoerunnisa, Hendrawan Hendrawan, Yaya Sonjaya, and Rizki Deli Hasanah</i>
12:00 – 12:15	AO-081	Extraction of hydroxyapatite (ha) from bovine bone and its performance in adsorbing heavy metals in water <i>Satriawan Dini Hariyanto, Muslim Mahardika, Tutik Sriani, and Gunawan Setia Prihandana</i>
12:15 – 12:30	AO-082	Rapid synthesis of gold nanoparticles in room temperature <i>Shohifah Annur, Sri Juari Santosa, Nurul Hidayat Aprilita, Nguyen Thanh Phuong, and Nguyen Van Phuocs</i>
Symposium session IV		
Moderator: Respati Tri Swasono, Ph.D.		
13:15 – 13:30	AO-083	Forgery detection beef with mice meat (<i>Mus musculus</i>) in meatballs using real time-polymerase chain reaction (RT-PCR) primer specific for a target mitochondrial DNA ND-1 gene <i>Tri J. Raharjo, Gilang A. Pratama, Irma Nuryanti, and Rarastoeti Pratiwi</i>

Time	Code	Title and Authors
13:30 – 13:45	AO-084	Cytotoxicity of isolated compounds from leaves of <i>Aglaia odorata</i> L. Mai Efdi , Syafrizayanti, Dessy Arisanti, Masayuki Ninomiya, and Mamoru Koketsu
13:45 – 14:00	AO-085	The use of secondary metabolites of mexican sunflower (<i>Tithonia diversifolia</i>) leaf as α -glucosidase inhibitor Endang Astuti and Made Gendis Putri Pertwi
14:00 – 14:15	AO-086	Effect of precursor concentration and soaking time on glucosamine palmyrah (<i>Borassus flabellifer</i> L.) seeds extraction Nur Lailatul Rahmah , Susinggih Wijana, and Dewi Istiqomah
14:15 – 14:30	AO-087	Secondary metabolites from <i>Cinnamomum parthenoxylon</i> leaves and their biological activities Antoni Pardede , Morina Adfa, Arif Juliari Kusnanda, Masayuki Ninomiya, and Mamoru Koketsu
14:30 – 14:45	AO-088	The effect of MRN complex and ATM kinase inhibitors on UVC-treated zebrafish embryonic development Malina Kumaran, and Shazrul Fazry
14:45 – 15:00	AO-089	The anthocyanin content, colour changes and stability of thermally treated extract from rosella (<i>Hibiscus sabdariffa</i> L.) petal Suharyani Amperawati , Umar Santoso, Pudji Hastuti, and Purnama Darmadji

ANNUM symposium schedule

Date : Wednesday, 12 July 2017

Room : Violet

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Prof. Dr.rer.nat. Nuryono, M.S.		
10:45 – 11:00	AO-090	Synthesis and characterization of silica from coal bottom ash <u>Ayusti Dirga</u> , Nurul Hidayat, and Endang Tri Wahyuni
11:00 – 11:15	AO-091	Degradation of blue KN-R dye in batik effluent by advanced oxidation process using a combination of ozonation and hydrodynamic cavitation <u>Eva Fathul Karamah</u> , and <u>Pristi Amalia Nurcahyani</u>
11:15 – 11:30	AO-092	Effect of concentration and calcination temperature On the synthesis of NaOH-modified zirconia
		As a prospective heterogeneous solid base catalyst <u>Mega Fia Lestari</u> , Karna Wijaya, Wega Trisunaryanti, Eddy Heraldy, and Nasih Widya Yuwono
11:30 – 11:45	AO-093	Composite of magnetite-oleic acid-chitosan: sonochemical synthesis and characterization <u>Suyanta</u> , Sutarno, Nuryono, Hesti Kusumastuti, and Lia Kurnia
11:45 – 12:00	AO-094	Integrative assessment of heavy metals pollution in Porong estuaries using sediment chemistry, bioavailability and bioconcentration factor <u>Barlah Rumhayati</u> , and Catur Retnaningdyah
12:00 – 12:15	AO-095	Electrokinetic remediation of artificially silver (Ag) contaminated soil from Kotagede area using acetic acid as electrolyte <u>Rudy Syah Putra</u> and Kharis Pratama
Symposium session IV		
Moderator: Dr. Tutik Dwi Wahyuningsih, M.Si.		
13:15 – 13:30	AO-096	Substituent effect and in vitro cytotoxicity test of chalcone and flavone derivatives against cervix (HeLa) and colon (WiDr) cancer cells <u>Nendrowati</u> , Sabirin Matsjeh, Bambang Purwono, Chairil Anwar, Eti Nurwening Sholikhah, and Yogo Dwi Prasetyo
13:30 – 13:45	AO-097	Synthesis of N-phenyl pyrazoline derivatives from veratraldehyde <u>Setiawati</u> , Estin Nofiyanti, Lina Fauzi'ah, and Tutik Dwi Wahyuningsih

Time	Code	Title and Authors
13:45 – 14:00	AO-098	Dextrin production from taro flour (<i>Colocasia esculenta</i>) by steam explosion method Dyah A. Puspitasari, Purnama Darmadji, Yudi Pranoto, and Rini Yanti
14:00 – 14:15	AO-099	Innovative method in parmesan cheesemaking: utilization of ultrafiltration membrane and non-starter lactic acid bacteria Lienda A. Handojo, Henry Sutjiono, and Cindy
14:15 – 14:30	AO-100	Anodic plasma depth influence on synthesis of biodiesel using plasma electrolysis method Ratih Anditashafardiani and Nelson Saksono
14:30 – 14:45	AO-101	The effect of ethyl acetate solvent combination in corn silk (<i>Zea mays L.</i>) methanol extract to their potential as a natural sunscreen Rosalina Ariesta Laeliocattleya and Ismizana Jati P.
14:45 – 15:00	AO-102	Early intrauterine diagnosis and conservative treatment with silo bag for gastroschisis in Indonesia Akhmad Makhmudi

ANNUM symposium schedule

Date : Wednesday, 12 July 2017

Room : Primrose

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Suherman, S.Si., M.Sc., Ph.D.		
10:45 – 11:00	AO-103	Isolation and characterization of cellulose from palm midrib M. Khoiron Ferdiansyah , Yudi Pranoto, and Djagal Wiseso Marseno
11:00 – 11:15	AO-104	Microwave assisted cationic polymerization of palm oils Bambang Soejijono, Muhamad Farid , and Zainal Alim Mas'ud
11:15 – 11:30	AO-105	Study of physico-mechanical properties and release kinetics of eugenol on chitosan-alginate polyelectrolyte complex films as a food active packaging Baqi Amelia Riyandari , Suherman, and Dwi Siswanta
11:30 – 11:45	AO-106	Potato starch modification by steam explosion Raymond Tommy Tjahjadi , Purnama Darmadji, and Yudi Pranoto
11:45 – 12:00	AO-107	Catalyst screening in diimide hydrogenation of latex F.H Ikhwan , Santi Puspitasari, Adi Cifriadi, Muhammad Fadlilah, and Mochamad Chalid
12:00 – 12:15	AO-108	Utilization of bamboo leaves silica for intermediate product of sodium silicate precursor Silviana , Rifaldi Maulana Hasbi, Christyowati Primi Sagita, Moh Taufiq Anwar, Riski Amalia, Ernisalsmirani Khusna, and Iqbal Ryan Ramadhan
Symposium session IV		
Moderator: Akhmad Syoufian, S.Si., Ph.D.		
13:15 – 13:30	AO-109	Hyaline cartilage regeneration on osteochondral defects of rat's knee joints with intraarticular human peripheral blood CD34+ stem cells, hyaluronic acid, TGF, IGF, FGF and fibronectin injection Basuki Supartono , Katsumi Shigemura, Errol Hutagalung, Ismail Hdilogo, Arief Boediono, Samsuridjal Djauzi, Ahmad A. Yusuf, Nurjati C. Siregar, Jacub Pandelaki, Masato Fujisawa, Toshiro Shirakawa, and Adang Bachtiar
13:30 – 13:45	AO-110	Formulation of oleozon with <i>Phaleria macrocarpa</i> and <i>Cinnamomum burmannii</i> extract for diabetic wound treatment Nabila Salsabila , Farah Moulydia, and Setijo Bismo

Time	Code	Title and Authors
13:45 – 14:00	AO-111	Functionalization of cellulose through polyurethanization by the addition of polyethylene glycol and diisocyanate Imam Prabowo, Fauzia Hanum, Ghiska Ramahdita, and Mochamad Chalid
14:00 – 14:15	AO-112	The efficacy of the root ethanol extract of <i>Acalypha indica</i> L. on metabolic syndrome rat model: focus on hyperglycemia and hyperuricemia D.G.B. Khrisnamurti, A.R. Priyanti, R.W. Hakim, and Erni Hernawati Purwaningsih

Computer symposium schedule

Date : Wednesday, 12 July 2017

Room : Tulip

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Gilang Nugraha P.P.		
10:45 – 11:00	CO-19	Robustness of PD control for transporting quadrotor with payload uncertainties <u>Gilang Nugraha Putu Pratama</u> , Ibnu Masngut, Adha Imam Cahyadi, and Samiadji Herdjunanto
11:00 – 11:15	CO-20	Servo state feedback based on coefficient diagram method in magnetic levitation system with feedback linearization <u>Alfian Ma'arif</u> , Adha Imam Cahyadi, Oyas Wahyunggoro, and Herianto
11:15 – 11:30	CO-21	Simulation of modified tubular linear permanent magnet generator for wave energy conversion in Indonesia <u>Danang Wijaya</u> , Budi Azhari, and Sarjiya
11:30 – 11:45	CO-22	Analysis of ferrite effect in axial flux permanent magnet generator using magnetic circuit approach <u>Prih Sumardjati Mulyaseputra</u> , Sasongko Hadi, Danang Wijaya, and Suharyanto
11:45 – 12:00	CO-23	Evaluation of spatial and regional planning map Using remote sensing and GIS in East Lombok Indonesia <u>Fithrothul Khikmah</u> , Muhammad Andhika, Hidayat Dewanto, Anggito Venuary, Muhammad Arfiasyah, Widya Fauziah, Muhammad Eko Raharja, and Iswari Hidayati
12:00 – 12:15	CO-24	Development of orthosis design for spastic cerebral palsy through biomechanical approach <u>Djoko Kuswanto</u> , Syukriyatun Ni'amah, and Farah Aulia Rahma
Symposium session IV		
Moderator: M. Manggalanny		
13:15 – 13:30	CO-25	Design and implementation of surveillance embedded ip camera with improved image quality using gamma correction for surveillance camera <u>Setiya Purbaya</u> , Dodi Wisaksono Sudiharto, and Catur Wijutomo

Time	Code	Title and Authors
13:30 – 13:45	CO-26	Low cost switched array-wide band antenna for search and rescue disaster management Arif Hidayat , Elyas Palantei, and Syafruddin Syarif
13:45 – 14:00	CO-27	Combination of DNS traffic analysis - a design to enhance APT detection Muhammad Manggalanny and Kalamullah Ramli

Computer symposium schedule

Date : Wednesday, 12 July 2017

Room : Dahlia

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Reza Pulungan, Ph.D.		
10:45 – 11:00	CO-28	Parallelization of modular exponentiations of polynomials M. Ridwan Apriansyah Budikafa and Reza Pulungan
11:00 – 11:15	CO-29	Lung detection using adaptive border correction Rizki Nurfauzi , Hanung Adi Nugroho, and Igi Ardiyanto
11:15 – 11:30	CO-30	A systematic review: b-cell conformational epitope prediction from epitope characteristics view Binti Solihah , Edi Winarko, Afiahayati, Sri Hartati, and Moh. Wibowo
11:30 – 11:45	CO-31	Monte carlo simulation and clustering for customer segmentation in business organization Andry Alamsyah and Bellania Nurriz
11:45 – 12:00	CO-32	Semantic search with rule reasoning for scholarship information search Kartikadyota Kusumaningtyas and Khabib Mustofa
Symposium session IV		
Moderator: Andry Alamsyah, M.Sc.		
13:15 – 13:30	CO-33	Direct comparison method of information dissemination using legacy and social network analysis Andry Alamsyah , Bernaully Sarniem, and Indrawati Indrawati
13:30 – 13:45	CO-34	Big data analytic for estimation of origin-destination matrix in bus rapid transit system Widy Widyanan , Sri Suning Kusumawardani, Dzaky Widya Putra, Bagas Prakasa, Budi Triwibowo Yuli Widhyianto, and Fathurrochman Habibie
13:45 – 14:00	CO-35	Construction inverted index for dynamic collections visualization in thematic virtual museums system Sajarwo Anggai

Geomaritime symposium schedule

Date : Wednesday, 12 July 2017

Room : Irish

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Muhammad Kamal, Ph.D.		
10:45 – 11:00	GO-08	Facies analysis of coal bearing formation in the Tamu Area, upper Chindwin Basin, Sagaing Region, Myanmar Thawng Lian Mung , Sugeng Sapto Surjono, and Myo Thant
11:00 – 11:15	GO-09	Microzonation of landslide vulnerable area using horizontal to vertical spectral ratio (Hvsr) by shear strain analysis method of microseismic data in Giritirta Village, Pejawaran District, Banjarnegara Regency Annisa Trisnia Sasmi , Hibatul Haqqi Laksana, and Alfian Romadhon
11:15 – 11:30	GO-10	Geomorphological condition analysis of Pramuka Cay, Kepulauan Seribu, Jakarta, Indonesia Ahmad Cahyadi , Tjahyo Nugroho Adji, Muh Aris Marfai, and Dhandun Wacano
11:30 – 11:45	GO-11	Regression model accuracy comparison for mangrove canopy density mapping using NDVI, MSAVI, and MSARVI Deha Agus Umarhadi and Akbar Muammar Syarif
11:45 – 12:00	GO-12	Logistics cost structure cold and non-cold supply chain of catchment sea-fish in coastal areas, Java Island, Indonesia Adi Djoko Guritno and Endy Suwondo
12:00 – 12:15	GO-13	Study of fresh-saline water interface in correlation with groundwater chemical type in Coastal Area of Cilacap, Indonesia Setyawan Purnama
12:15 – 12:30	GO-14	The effect of difference polynomial order on the geometric correction of very high resolution satellite imagery to delineation of coastline Jali Octariady
Symposium session IV		
Moderator: Ratih Fitria Putri, M.Sc., Ph.D.		
13:15 – 13:30	GO-15	Analysis of suitability and carrying capacity for coastal tourism in Siung Beach and Wediombo Beach, Gunungkidul Yustikarani Juliani Pambudi and Intan Mawar Tiani

Time	Code	Title and Authors
13:30 – 13:45	GO-16	A simple approach for radargram pattern recognition: identification of metal and non metal object Galih Prasetya D. , Wisnu S. Priyanto, Doni Fernando, and Heni S.
13:45 – 14:00	GO-17	Mapping of tidal flood affected areas and discovering the community adaptation strategies in Demak Regency, Central Java Bowo Susilo , Rika Harini, M Chrisna Satriagasa, Rina Ariani, and Tiara Sarastika
14:00 – 14:15	GO-18	Analysis access and utilization of icts by farmers in coastal area of rural Yogyakarta, Indonesia Subejo , Dyah Woro Untari, Ratih Ineke Wat, and Gagar Mewasdinta
14:15 – 14:30	GO-19	Land use priority assessment based on evaluation of land capability, landslide hazard and population pressure on agriculture land analysis in Blukar, Bodri, and Blorong Watersheds; Central Java, Indonesia Ratih F. Putri , J.T.Sri.Sumantyo, J.Sartohadi, and F.Nishio
14:30 – 14:45	GO-20	Mangrove forest change monitoring using multitemporal image in Karimunjawa and Kemujan Island Putri Marulia Sari , Evy Rosa, Fiqi Arman, Any T. Atmaja, and Muhammad Kamal
14:45 – 15:00	GO-21	Investigating the role of rainfall variability in the hydrological response of small tropical upland watershed prone to land degradation Nugroho Christanto , Junun Sartohadi, M. Anggri Setiawan, and M. Promono Hadi

Geomaritime symposium schedule

Date : Wednesday, 12 July 2017

Room : Lavender

DAY 2

Time	Code	Title and Authors
Symposium session IV		
Moderator: Dr. Arry Retnowati, M.Sc.		
13:15 – 13:30	GO-22	Mangrove vegetation inventory in Bogowonto Estuary Hartono, Sudaryatno , and Wahyu Nurbandi
13:30 – 13:45	GO-23	Recent coastline dynamic along northern coast of Java (PANTURA) Indonesia and their driving forces Heri Andreas , Dina A. Sarsito, Dhota Pradipta
13:45 – 14:00	GO-24	ConnectiFarm: android mobile field support as a DSS tool for agriculture technology investments in developing countries Maharani Listiafitri and Ramdan Septiawan
14:00 – 14:15	GO-25	The usefulness of multi resolution landsat image for detecting urban sprawl Djaka Marwasta
14:15 – 14:30	GO-26	Inundation flood evaluation in North Kalimantan Province's coastal area based on watershed factor Sudaryatno , Totok Gunawan, and Disyacitta Awanda
14:30 – 14:45	GO-27	Strengthening the global maritime fulcrum concept through the inclusion of bioecoregion connectivity aspects (case study the South Coast of West Java, Indonesia) Atikah Nurhayati , Isah Aisah, and Asep K Supriatna

Infrastructure technology symposium schedule

DAY 2

Date : Wednesday, 12 July 2017

Room : Carnation

Time	Code	Title and Authors
Symposium session III		
Moderator: Imam Muthohar, S.T., M.T.		
10:45 – 11:15	Prof. Dr. Tech. Ir. Danang Parikesit, M.Sc. Universitas Gadjah Mada, Indonesia	
11:15 – 11:30	IO-05	Development of batch photocatalytic solar reactor into a continuous system to degrade peat water into clean water Gusfiyesi , Hendri Sawir, and Edo Handika
11:30 – 11:45	IO-06	Microbiological quality assessment of drinking water in Teros Village, East Lombok District, West Nusa Tenggara Province, Indonesia Baiq Liana Widiyanti , Ig.L. Setyawan Purnama, Adi Heru Sutomo, and Setiadi
11:45 – 12:00	IO-07	Rain behaviour at Mt. Merapi area as observed by XMPR and ARR Roby Hambali , Hanggar G. Mawandha, Djoko Legono, Rachmad Jayadi, and Satoru Oishi
12:00 – 12:15	IO-08	Impact of sedimentation counter measure on the performance of flood control: a case study of Wonogiri reservoir Rachmad Jayadi , Istiarto, and Ansita Gukitapingin Pradipta
12:15 – 12:30	IO-09	Simulation of angular flow in a shallow basin triggered by a rotating vertical cylinder by SPH method Warniyati , Radianta Triatmadja, and Nur Yuwono
Symposium session IV		
Moderator: Endita Prima Ari Pratiwi, S.T., M.Eng., Ph.D.		
13:15 – 13:30	IO-10	A study of Universitas Gadjah Mada Drinking Water Supply System (UGM-DWSS) potential on supporting green campus program in Universitas Gadjah Mada Adhi Fahrianto S. , Intan Supraba, Radianta Triatmadja, and Budi Kamulyan
13:30 – 13:45	IO-11	Campus drinking water supply system performance analysis in Universitas Gadjah Mada of Yogyakarta Teguh Setiawan , Radianta Triatmadja, Intan Supraba, and Budi Kamulyan

Time	Code	Title and Authors
13:45 – 14:00	IO-12	Policy analysis of Clean Water Supply System (CWSS) development (case study of Kotamobagu's CWSS) Ahmad Nithasi Damopolii, Radianta Triatmadja, and Intan Supraba
14:00 – 14:15	IO-13	Study on hydraulic flow in stratified pipe performed by numerical simulation Ani Hairani, Djoko Legono, and Adam Pamudji Rahardjo
14:15 – 14:30	IO-14	Comparison of wind load analysis results based on Indonesia minimum design loads standard SNI 1727:2013 inputted automatically and manually by using SAP2000 Oktaviani Tri Handayani, Mhd. Despriodi Syaher, and Inggar Septhia Irawati
14:30 – 14:45	IO-15	Numerical investigation on buckling failure of slender member with cutout presence Miftahul Iman, Bambang Suhendro, Hrc. Priyosulistyo, and Muslikh

OMICS symposium schedule

Date : Wednesday, 12 July 2017

Room : Emerald

DAY 2

Time	Code	Title and Authors
Symposium session III		
Moderator: Yuni Kusumastuti, S.T., M.Eng., D.Eng.		
10:45 – 12:30	Prof. Mime Kobayashi	Nara Institute of Science and Technology, Japan
11:30 – 11:45	OO-09	Detection of bacterial leaf blight resistance gene <i>Xa4</i> and transcriptomic analysis of its gene in black rice after infection of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> Mita Dewi Retnoningrum , Siti Roswiyah Yulyani, Rizka Saumi, Febri Adi Susanto, Tri Rini Nuringtyas, Tri Joko, and Yekti Asih Purwestri
11:45 – 12:00	OO-10	GC-MS based metabolomics study on pigmented rice (<i>Oryza sativa</i> L.) resistant to Rice Ear Bug (<i>Leptocoris oratorius</i> F.) Nur Afra , Tri Rini Nuringtyas, Yekti Asih Purwestri, Febri Adi Susanto, Tomoyo Irifune, Sastia Prama Putri, and Eiichiro Fukusaki
12:00 – 12:15	OO-11	NMR metabolite comparison of local pigmented rice in Yogyakarta Dio Nardo Wijaya , Febri A. Susanto, Yekti A. Purwestri, Dyah Ismoyowati, and Tri Rini Nuringtyas
12:15 – 12:30	OO-12	Identification of cytotoxic compounds from torbangun leaves by metabolomics approach Nancy Dewi Yuliana , Masao Goto, Rizal Damanik, Dedi Fardiaz, Farida Laila, and Yuko Takano Ishikawa
Symposium session IV		
Moderator: Dr. Yekti Asih Purwestri, M.Si.		
13:15 – 13:30	OO-13	Cloning and expression of haloacid dehalogenase gene from <i>Bacillus cereus</i> IndB1 Idris and Enny Ratnaningsih
13:30 – 13:45	OO-14	The expression of growth factors signalling gene from different donor age of human adipose derived stem cell during in vitro maturation Erif Maha Nugraha Setyawan , Hyun Ju Oh, Min Jung Kim, Geon A Kim, Seok Hee Lee, Yoo Bin Choi, Ki Hae Ra and Byeong Chun Lee

Time	Code	Title and Authors
13:45 – 13:50	OP-01	Detection of <i>Strongyloides Stercoralis</i> using single polymerase chain reaction method in hookworm-positive fecal samples Ardina Nugrahani, E. Elsa Herdiana Murhandarwati, and Erna Kristin
13:50 – 13:55	OP-02	Edible biofilm formation from guava seed waste fermentation Sari Darmasiwi, Oktaviana Herawati, and Endah Retnaningrum

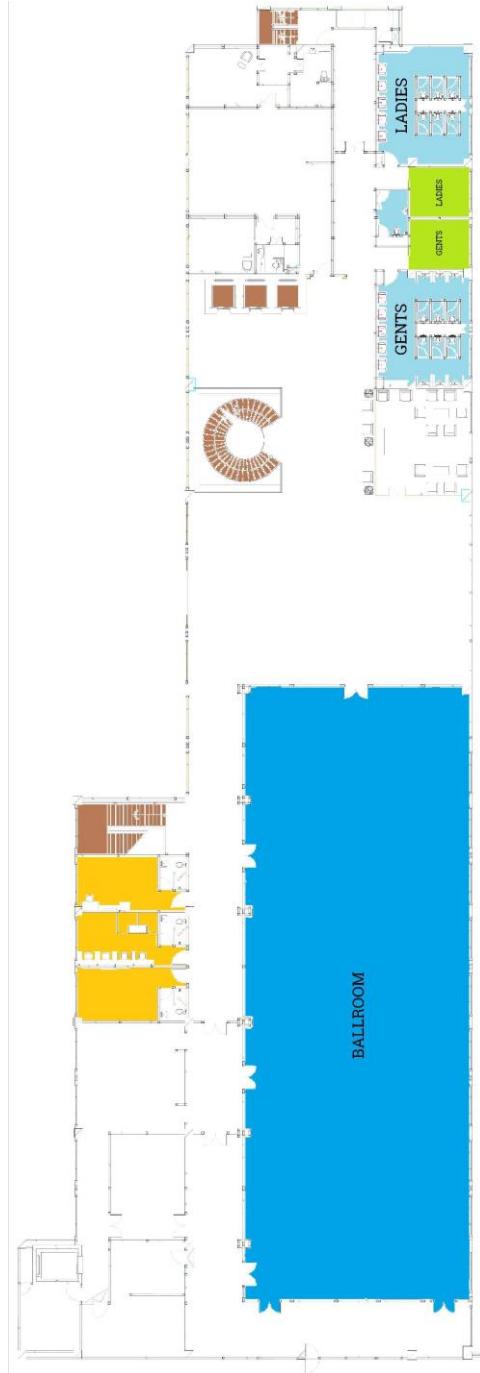
VENUE



4th FLOOR

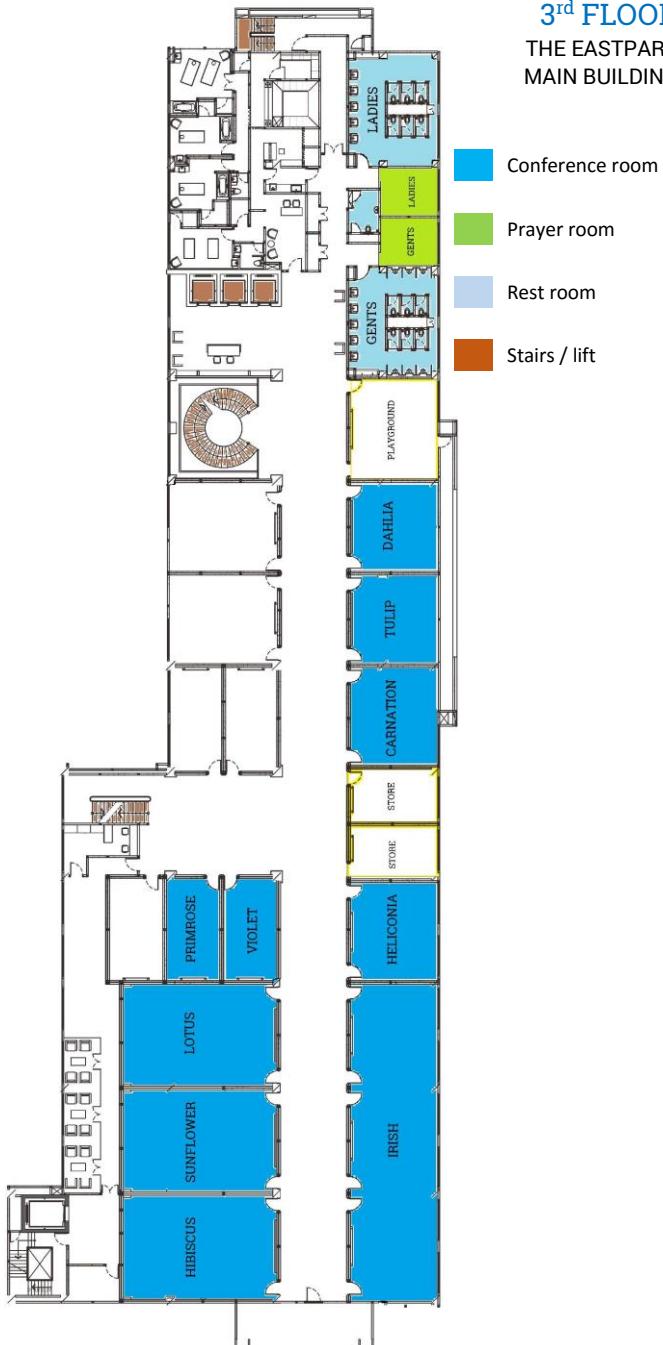
THE EASTPARC MAIN BUILDING

- █ Conference room
- █ Committee room
- █ Prayer room
- █ Rest room
- █ Stairs / lift



3rd FLOOR

THE EASTPARC MAIN BUILDING



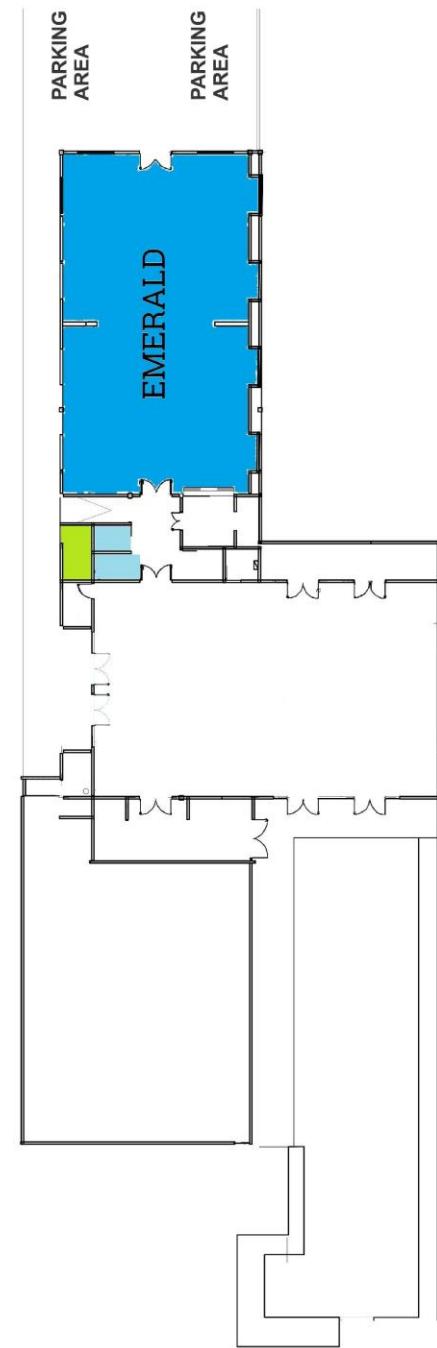
HERITAGE

OPPOSITE
THE EASTPARC
MAIN BUILDING

Conference room

Prayer room

Rest room



The 3rd ICST Secretariat

**Badan Penerbit dan Publikasi, Universitas Gadjah Mada
UGM Main Office Building, 3rd Floor, Room B3-05
Bulaksumur, Yogyakarta, Indonesia**

**Phone : (+62) 274 6491963
E-mail : icst@ugm.ac.id
Web : <http://icst-2017.ugm.ac.id>**

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