# 2014 APCBEES BALI CONFERENCES SCHEDULE

2014 2nd International Conference on Renewable Energy and Environment (ICREE 2014) 2014 2nd International Conference on Civil and Architecture Engineering (ICCAE 2014) 2014 2nd International Conference on Biological and Medical Sciences (ICBMS 2014)

Bali, Indonesia

September 27-28, 2014

# Wina Holiday Villa Kuta Bali

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# 2014 APCBEES BALI CONFERENCES INTRODUCTION

Welcome to CBEES 2014 conferences in BALI. The objective of the BALI conferences is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Renewable Energy and Environment, Civil and Architecture Engineering, and Biological and Medical Sciences.

2014 2nd International Conference on Renewable Energy and Environment (ICREE 2014)



\* Paper publishing and index: All papers for the ICREE 2014 will be published in Journal of Clean Energy Technologies (JOCET, ISSN: 1793-821X) as one volume, and will be indexed by Chemical Abstracts Services (CAS), Electronic Journals Library, EBSCO, Ulrich's Periodicals Directory, BE Data, Google Scholar, ProQuest and DOAJ. and sent to be reviewed by Ei Compendex and ISI Proceedings.

Conference website and email: <u>http://www.icree.net/; icree@cbees.org</u>

2014 2nd International Conference on Civil and Architecture Engineering (ICCAE 2014)



Paper publishing and index: All papers of ICCAE 2014 will be published in the International Journal of Engineering and Technology (IJET)(ISSN: 1793-8236), and all papers will be included in the Chemical Abstracts Services (CAS), DOAJ, Engineering & Technology Digital Library, Google Scholar, Ulrich Periodicals Directory, Crossref, ProQuest, Electronic Journals Library, Index Copernicus, EI (INSPEC, IET).

Conference website and email: <u>http://www.iccae.net/;</u> iccae@cbees.org

#### 2014 2nd International Conference on Biological and Medical Sciences (ICBMS 2014)



Paper publishing and index: All ICBMS 2014 papers will be published in the Journal of Medical and Bioengineering (JOMB, ISSN: 2301-3796), and all papers will be included in the Engineering & Technology Digital Library, and indexed by EBSCO, WorldCat, Google Scholar, Cross ref and sent to be reviewed by Ei Compendex and ISI Proceedings.

Conference website and email: <u>http://www.icbms.org/</u>; <u>icbms@cbees.org</u>

### Excellent Paper Award

One excellent paper will be selected from each oral presentation sessions, and the Certificate for Excellent Papers will be awarded at the end of each session on September 28, 2014.

# **Instructions for Oral Presentations**

## **Devices Provided by the Conference Organizer:**

Laptop Computer (MS Windows Operating System with MS PowerPoint & Adobe

Acrobat Reader )

Digital Projectors & Screen

Laser Sticks

# Materials Provided by the Presenters:

PowerPoint or PDF files (Files shall be copied to the Conference Computer at the

beginning of each Session)

## **Duration of each Presentation (Tentatively):**

Regular Oral Presentation: about 10 Minutes of Presentation and 2 Minutes of Q&A

Keynote Speech: 35 Minutes of Presentation and 5 Minutes of Q&A

# **Instructions for Poster Presentation**

# Materials Provided by the Conference Organizer:

The wall to put poster

# Materials Provided by the Presenters:

Home-made Posters

Maximum poster size is A1.

Load Capacity: Holds up to 0.5 kg.

# **Brief Schedule for Conferences**



SESSION–1 (ICCAE 2014) Venue: Drupadi Room			SI	ESSION–2 (ICB Venue: Drupadi	MS 2014) i Room
Session Chair: Associate Prof. Aydin Kavak			Sessio	n Chair: Prof. R	tuslan Muhyi
	Time: 10:00am	-12:30pm		Time: 1:30pm-3	3:50pm
PAGE	PAPER ID	PRESENTER	PAGE	PAPER ID	PRESENTER
7	A1005	Dr. Egal. Kkalaf. Aljofi	11	D0003	F. Gildenhuys
7	A0002	Seong-Cheol Lee	12	D0004	Nur Hidayah Hassan
7	A0003	Ji-Eun Kim	12	D0007	Shazlin Shaharudin
8	A0013	Shiva Jabari	12	D0008	Rania Zayed
8	A0015	Noviani Suryasari	13	D0012	Zaw Zaw Htike
8	A0017	Fawad Ahmed Najam	13	D0013	Zaw Zaw Htike
9	A0020	Achmad Fauzi	13	D2002	Jestin Chellian
9	A0021	Hary Agus Rahardjo	14	D2003	Suresh Shanmugham
10	4.0022	Chaham Alalamah	14 D2005	D2005	Tjokorda Gde Tirta
10	A0022	Chanani Alaiouch		Nindhia	
10	A0128	Dr. Ali Dashti Shafii	15	D3001	Agung Biworo
10	A0130	W. Chanseawrassamee	15	D3002	Iwan Aflanie
11	A1004	Gusti Made Oka	15	D3003	Yudi Firmanul Arifin

# Presentation Tracking Contents

#### SESSION-3 (ICSEE, ICBBE 2014, CCEA 2014)

Venue: Drupadi Room

Session Chair: Dr. Saji Baby

Time:	3:40pm-5:30pm	
		5

PAGE	PAPER ID	PRESENTER
16	A0006	Mohamed Elmuntasir
10		Ibrahim Ahmed
16	A1006	Chuangang Fan
17	A1007	A. Kavak
17	D3007	Hazwanie Hashim
17	D2009	Mohammadreza
17	D3008	Mohammadzad Mehryar
18	B0003	Hasna Al Jabri
18	B0004	Hilman Syaeful Alam
18	B0005	Imam Djunaedi
19	B0007	Dewi Permatasari
19	B0009	Mark D. Villanueva
20	B0010	Hamidreza Kamalan
20	B3001	I Ketut Adi Atmika

## **Attention Please:**

- 1. Each presenter has about ten minutes (including question and answer time) for answering the question, please control your presentation time.
- 2. Please kindly prepare your PPT or poster according to your research and the time regulation before the conference and take it to the conference site.
- 3. Please arrive at the conference room (Drupadi Room) when your session begins.
  - 4. Hoping you to have a good time during the conference.

# **Detailed Schedule for Conferences**

## September 27, 2014 (Saturday)

## **Venue: Ground Floor**

10:00am-5:00pm	Arrival and Registration
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Note: (1) You can also register at any time during the conference.

(2) The organizer doesn't provide accommodation, and we suggest you make an early reservation.

(3) One excellent paper will be selected from each oral presentation sessions, and the Certificate for Excellent

Papers will be awarded at the end of each session on September 28, 2014.

## Morning, September 28, 2014 (Sunday)

	Opening Remarks
8.10om 8.20om	Dr. Saji Baby
8:10am-8:20am	Environmental Manager (Research and Consultation) & Principal Scientist,
	GEO Environmental Consultation, Kuwait
	Keynote Speech I
	Prof. AYDIN KAVAK
	Department. of Civil Engineering, Kocaeli University, Kocaeli, Turkey
8:20am-9:00am	
	"Enviromental solutions for sustainable geotechnical construction works"
	Keynote Speech II
	Dr. Saji Baby
	Environmental Manager (Research and Consultation) & Principal Scientist,
	GEO Environmental Consultation, Kuwait
9:00am-09:40am	
	"Environmental Considerations of Municipal Solid Waste Management with
	Incinerator."
09:40am-10:00am	Coffee Break & Taking Photo

## Venue: Drupadi Room at the first floor

## Morning, September 28, 2014 (Sunday)

## SESSION-1 (ICCAE 2014) (12 presenters)

## Venue: Drupadi Room

Session Chair: Associate Prof. Aydin Kavak

Time: 10:00am-12:30pm

A1005	The Measures of Light Performance of Wind Catchers in Hot Climatic Zones
	Dr. Egal. Kkalaf. Aljofi
	University of Dammam, Saudi Arabia
	<i>Abstract</i> —The development of contemporary nations and society had been characterized by the abilities and skills of their inhabitants in various sectors. Some of these nations decreased over a period of time and were substituted by others. Yet they remain marks of architecture and historical features that stand out as landmarks. The architectural heritage represents the most common and clear evidence for these nations. Therefore, many civilizations attempt to conserve, explore and develop the essence of its architectural vocabularies. GCC countries have been characterized by architectural style that emerged from its environmental and geographical circumstances. Wind catchers are one such feature. The use of this device had decreased over the years. However, they emerged again in many contemporary buildings but without their functional characteristics. The purpose of this research is to investigate and explore the natural light characteristics of this device through the investigation of old existing device and explore the effectiveness of its parameters and factors applicability.
A0002	Fiber Orientation Factor on Rectangular Cross-Section in Concrete Members
	Seong-Cheol Lee, Jeong-Hwan Oh, and Jae-Yeol Cho
	KEPCO International Nuclear Graduate School, South Korea
	Abstract—In order to predict the post-cracking tensile behavior of fiber reinforced concrete, it is necessary to evaluate the fiber orientation factor which indicates the number of fibers bridging a crack. For investigation of fiber orientation factor on a rectangular section, in this paper, dog-bone fiber reinforced concrete specimens were prepared with the variables of concrete compressive strength, rectangular cross-section size, fiber type, and fiber volumetric ratio. After direct tension tests, the fiber orientation factor could be evaluated through counting the number of fibers on a crack. From the test results, it was investigated that the fiber orientation factor was larger than 0.5 which is generally adopted for large members, as fibers distribution is affected by the specimen size. For rational prediction of the fiber orientation factor on a rectangular concrete section, a simple model was derived from the Diverse Embedment Model (DEM), which is a rigorous model to predict the tensile behavior of steel fiber reinforced concrete. From the comparison of the measured data and the predicted values, it was found that the actual fiber orientation factor was well predicted by the proposed model.
A0003	A Proposal of Spatial Indexing Algorithm for Effective Visualization of GIS Based-BIM Data
	Ji-Eun Kim and Chang-Hee Hong
	Korea Institute of Civil Engineering and building Technology (KICT), Korea

	Abstract—The facility maintenance using BIM data reflects a need for maintenance system that considers
	efficient operation of administrators and managers. This system which takes advantage of the vast amount
	of 3D facility data is able implement the interoperate navigation and visualization. However, the quick and
	smooth visualization process for a large-scale BIM data is an important factor to be solves in future. The
	purpose of this study is to design the spatial indexing algorithm for effective visualization of BIM data
	based on GIS, and propose the spatial indexing method reconfigures an IFC schema structure. It is
	designed with the scenario of the coordinate transformation, so the implemented algorithm is verified with
	IFC sample data.
A0013	Architecture "The Inevitable Art": Interactions with and Impacts on the Shape and Design of
	the Cities
	Ali Dashti Shafii, Babak Monir Abbasi, <b>Shiva Jabari</b>
	Shomal University, Iran
	Abstract-Often it is thought that architecture and urban design are not related and they are totally
	different identities; however, they have inextricable connection and unawareness of this point can bring
	about confusion. However, everyday many of architectural decisions are made without paying least
	attention to it. Today when architecture is presented in various forms and styles, this lack of attention and
	lack of awareness cause many hazards and for this reason, our cities and towns don't enjoy desirable faces.
	Although buildings are remarkable individually, their collective impression is disappointing and
	undesirable. (Richard Hedman and Andrew Jaszweski, 1985) Art, modern architecture and urban structural
	transition haven't come up suddenly: they are consequences of strong pressures from inside of the
	societies. The pressures themselves are the result of hasty industrial development and transitional
	economy. Today, architecture is mostly influenced by fashion and changes are displayed in main aspects of
	architectural form and identity, whereas in the past, they were only in details. Since we live in an
	environment which is shaped by man-made structures, architecture is unavoidable art (Ali Madanipour,
	2000). In this paper, the writers attempt to deal with the position of architecture in urban design, urban
	planning in the past and at the present time and structure of cities.
A0015	Bolon and Lobo: Revealing the Stack Construction on Batak Simalungun and Kulawi
	Traditional House
	Yusfan Adeputera Yusran, Noviani Suryasari
	Technische Universit ä Wien, Vienna, Austria
	Abstract-It has long been known, the ancestors of the Indonesian have quite advanced knowledge of
	building technology in its day. Knowledge of the use of natural materials, as well as efforts to combine
	these materials into structural and construction systems still can be encountered met standing sturdy in
	custom houses. Among the diversity of form of construction that was built by different tribes, on the
	different geographical sites, identified several similarities which indicate a common thread between
	traditional houses scattered in archipelago to the Asia Pacific region and even Europe. This study offers
	another perspective of common observations about a custom house. Identification on the similarities of
	construction leads us to an understanding of the phenomenon of the spread of knowledge which occur or
	other possibilities that brings us to the understanding of how appropriate architecture for archipelago
	(Nusantara) conditions.
A0017	Paradigms for employing Interactive Computing Tools and Graphical User Interfaces (GUIs)
	in Structural Engineering Problems
	Fawad Ahmed Najam, Rao Arsalan Khushnood and Syed Ali Rizwan

Asia	Institute of Technology (AIT), Thailand
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*Abstract*—The development of intelligent computational tools provides new opportunities to exploit various potentialities of computers. Many fields have taken significant advantage of the recent advancements in computing technology to adapt, apply and enhance the way people learn and solve real-world problems. In this paper, three case studies are presented which show how the development of knowledge-based computer applications can be handy to both understand and solve structural engineering numerical problems. Moreover, such tools can be useful teaching aids and can facilitate interactive learning techniques being used across the globe. The first case study application is a graphical user interface (GUI) developed in MATLAB 2009 environment for dynamic analysis of a generalized single degree of freedom system against specified force vector or ground motion. The second example is from the field of reinforced concrete design developed in Visual Basic environment for generating moment curvature relationship of reinforced concrete beams. The third case study application is also developed in MATLAB R2009a environment using GUIDE module to automate a recently proposed empirical method of concrete mix design. These interfaces are developed in a simple and interactive manner for convenient visualization of complete step-by-step process aiming not only to provide an easy tool for what-if analysis, but also to develop a learning attitude among the end users.

## A0020 Soil Engineering Properties Improvement by Utilization of Cut Waste Plastic and Crushed Waste Glass as Additive

## **Achmad Fauzi**, Zuraidah Djauhari and Usama Juniansyah Fauzi University Malaysia Pahang, Malaysia

*Abstract*—In general, clayey soil was used as soil material or embankment material for increasing road way level before road structure being constructed. Some types of clay are expansive soil, its have been contributing to pavement failures and subsequently causing increased annual maintenance expenditure of the road. The pavements design/redesign methods are found to be the primary cause of these failures. Thus, it is quite important to propose the utilization of waste plastic and waste glass on soil subgrade improvement and then contributing decreased of pavement failures.

This paper was evaluated the engineering properties on utilizing waste plastic High Density Polyethylene (HDPE) and waste crushed glass as additive on subgrade improvement. The research were conducted soil engineering properties, standard compaction, four days soaked California Bearing Ratio (CBR) and Triaxial test to some clayey soil samples from various sites in Kuantan. The 4 days soaked CBR of clayey soil samples were prepared at optimum water content. The variation of additive content on stabilized soil: 4%, 8%, 12% by dry total weight of soil sample respectively. The chemical element was investigated by Integrated Electron Microscope and Energy-Dispersive X-Ray Spectroscopy (SEM-EDS). Test result were shown that engineering properties and CBR on stabilized clayey samples were increased when the content of waste HDPE and Glass were increased.

## A0021 Towards Green Building with Prefabricated Systems on Flat Development in Indonesia Hary Agus Rahardjo, Priyasambada, Dwi Dinariana Universitas Persada Indonesia Y.A.I, Indonesia

*Abstract*—The increase of population in major cities led to the rise in housing need. In line with the growth of the city, the available land in urban areas increasingly limited and expensive. Construction of flats is one solution to meet the housing needs. In practice, many conventional construction methods require lumber for formwork and scaffolding. Excessive consumption of wood has shown to reduce forest cover and

	damage the environment, which is negatively affecting human life. This paper examines the precast
	method as an alternative system that can be used. Object of research is done on the construction of flats in
	the city of Batam, Bantul and Bandung. Result of the discussion suggests that the prefabricated system can
	save the use of wood, reduce the cost of construction, maintain the environment and also contribute to the
	green building.
A0022	Design Criteria for Privacy-Sensitive Healthcare Buildings
	Chaham Alalouch, Peter A. Aspinall, Harry Smith
	Sultan Qaboos University, Oman
	Abstract—Architects are faced with many policies and guidance documents when designing hospitals.
	These differ in focus, structure and clarity. An Architect task of eliciting, understanding and responding to
	design criteria becomes even more confusing when it comes to intangible criteria such as patient's privacy.
	The aims of this paper is to identify and review main sources of information on hospital design that are
	available for architects in the UK in order to summarize these criteria and distill criteria related to privacy.
	The focus is on visual privacy as a function of the spatial arrangements of hospital wards which is, in turn,
	under the control of architects. The study employs a two-fold methodological approach: semi-structured
	interview with experts in hospital design; and content analysis and comparative investigation of policies
	and guidance documents. This exhaustive study revealed that the concern about privacy is clearly
	expressed in the surveyed documents. The privacy-related criteria are framed within the larger context of
	hospital and ward design criteria. This contributes to the existing scattered literature on hospital design
	criteria with a new summary of design criteria at three levels: ward spatial arrangements, patient's privacy,
	patient's visual privacy. The paper concludes with recommendations for future research on
	privacy-sensitive healthcare building design.
A0128	Manual Rendering Techniques in Architecture
	Dr. Ali Dashti Shafii, Babak Monir Abbasi, Shiva Jabari
	Shomal University, Iran
	Abstract—One of the most important roles of architects is the spiritization of designing by means of proper
	tools and techniques; this is done by a good rendering job. A good hand rendering task employs correct
	colorings into itself to express all the details, materials, shadows and textures. Recently, though, due to
	rendering software for drawing a perspective and finalizing it, a growing number of young architects and
	designers just hop straight onto their computers and work their ideas out. I believe they should work out
	hands, since nothing is better to get a point across in a design meeting than to be able to sketch it up real
	quick right in front of the client. Many clients are still wowed by hand drawn drawings. Hand rendering
	can soften drawings and even make computer generated images look more personal. In this short paper, we
	are trying to present some essential and delicate points in hand rendering (rendu). It would be helpful for
	designers who wish to improve their manual rendering techniques.
A0130	Development of Attribute-Assign-Editor for Road Surface Point Cloud Data
	Y. Fujita, I. Kobayashi, Y. Hoshino, and W. Chanseawrassamee
	Kumamoto University, Japan
	Abstract—In recent years, road register has been drawn and recorded in order to determine various road
	statuses. The data includes road names, investigated data, starting and ending point of the road, the road
	intersecting point, etc. Importantly, to undergo road maintenance, annual corrections for work and road
	facilities are necessary. Also, research in the utilization of point cloud data in diverse fields is currently

	being examined. In previous studies, the authors have been applying point cloud data to numerous stages
	of construction life cycle management. This paper will reveal the utilization of point cloud data by using
	the editor system the authors have constructed. Finally, the authors put this system into practice on road
	surface data, determined possible outcomes for road maintenance in road registration, and demonstrated a
	range of possibilities of using point cloud data in various considerations and discussions.
A1004	Effects of Bolt Distance on Flexural Behavior of Bolt-Laminated Bamboo Beam
	Gusti Made Oka, Andreas Triwiyono, Suprapto Siswosukarto and Ali Awaludin
	Gadjah Mada University, Indonesia
	Abstract—Bolt-laminated bamboo beam was utilized as an alternative to replace wood and it was used as
	structural and non-structural construction material. Bamboo material then has become the most popular
	non-wood material in construction field. Nowadays, bamboo material is not optimally utilized yet. Many
	studies showed the advantages of bamboo to be compared to the other materials. The diameter of
	<i>Gigantochloa atroviolacea</i> bamboo used in this study is ranged from 70 to 90 mm. The diameter of bolt is
	12.7 mm. The improvement of strength and stiffness of beam can be conducted by arranging the full-culm
	bamboo with bolt as the shear connector. Variations of bolt distance in this study were 125 mm, 250 mm,
	and 500 mm. The final product of the bamboo jointed segment is bolt-laminated bamboo beam. Setup test
	for bolt-laminated bamboo beam uses Four Point Bending method. The strength and stiffness of
	bolt-laminated bamboo beam has increased as the bolt distance decreased. The distance of bolt connectors
	that are greater than 500 mm has no significant affect to the strength and stiffness of the beam. Therefore,
	the distance of bolts is suggested to be less than 500 mm.

12:30pm-1:30pm

Lunch

# Afternoon, September 28, 2014 (Sunday)

## SESSION-2 (ICBMS 2014) (12 presenters)

## Venue: Drupadi Room

Session Chair: Prof. Ruslan Muhyi

Time: 1:30pm-3:50pm

D0003	Force Plate Balance Response of Seafarers during Still and Rough Sea Conditions
	F. Gildenhuys, and R. Dobson
	Stellenbosch University, South Africa
	Abstract-Seafarers are constantly exposed to varying ground reaction forces due to extreme weather
	conditions. These forces may lead to the progression of osteoarthritis and musculoskeletal injuries. The
	ground reaction forces of 18 subjects were measured, with Advanced Mechanical Technology
	Incorporation's force plate, during still and rough sea conditions. In this study, each subject's weight factor
	and Sway Index is compared for different test conditions. Weight factors varied between 1.46 and 0.66 of
	the normal body weight. A subject's Sway Index measured during rough conditions is more than double

	their Sway Index measured during still conditions. It was noted that more than 70% of the subjects' Sway
	Indexes were greater when facing the side of the ship as opposed to the front, during still and rough
	conditions. Body movement and postural response is increased in order to keep the body upright during
	rough sea conditions as opposed to still conditions. The long term effects caused to body joints, as a result
	of constant exposure to varying ground reaction forces, can be determined using the measured results.
D0004	Effect of <i>Centella asiatica</i> on Oxidative Stress in Rat Lung after Formalin Exposure
	Nur Hidayah Hassan, Nur Khairah Izzati Mohd Saufi, Teh Rasyidah Ismail, Kaswandi Md
	Ambia and Rahim Md Noah
	Universiti Kuala Lumpur Institute of Medical SCI. Technology, Malaysia
	Abstract-P egaga or Centella asiatica commonly used in traditional medicine was believed to possess
	antioxidant effect that can control the generation of free radicals. This study aims to investigate the
	protective effect of Centella asiatica on antioxidant status in rat lung following formalin exposure. Twenty
	male Wistar rats were divided into four groups: (1): control; (2): exposed with 10 % formalin; (3): exposed
	with 10 % formalin and treated with ethanolic extract of C. asiatica; (4): treated with ethanolic extract of
	C. asiatica. Exposure of 10 % formalin was performed through inhalation and C. asiatica was given orally.
	After the treatment, the rat's lungs were harvested for determination of malondialdehye and activities of
	superoxide dismutase and catalase. Exposure to 10 % formalin did not increase the concentration of
	malondialdehye. However, higher malondialdehye level was noted in group which exposed with 10 %
	formalin and received ethanolic extract of C. asiatica. A significant decrease of superoxide dismutase
	activities was observed in rat's lung between all groups as compared to control group, yet no significant
	difference was observed in catalase activities. In conclusion, exposure 10 % formalin was unable to
	induced oxidative stress in rat lung but supplementation of C. asiatica are able to increase superoxide
	dismutase level in rat lung but not for catalase.
D0007	Muscle Synergy of Collegiate Rowers during 6 Min Maximal Rowing on Fixed and Slides
	Ergometer
	Shazlin Shaharudin and Sunil Agrawal
	Universiti Sains Malaysia, Malaysia
	Abstract—I ne purpose of this study was to evaluate the muscle synergy of collegiate rowers during 6 min
	maximal rowing on different stretcher mechanisms: fixed (FE) and slides ergometer (SE). The association
	of muscle synergy to rowing economy and physiological variables was further quantify by statistical
	analysis. Method: Ten coneglate rowers were recruited at the end of their competitive season. Muscle
	synergy was extracted from 16 rowing specific muscles using principal component analysis with varinax
	rotation. O mini maximal rowing test was performed on Concept 2 FE and SE. Rowing performance and physical graded particular rowing performance on FE and SE.
	in terms of total distance covered. Powers rowed faster at shorter strokes when rowing on SE compared
	than rowing on FE. Greater maximal heart rate, energy expenditure and rowing economy were achieved on
	SE rowing Three muscle synergies were extracted in both rowing conditions. Significant association was
	found between Synergy #1 and rowing economy Discussion: Muscle synergy was robust between two
	rowing conditions. Rowing economy was highly associated with muscle synergy As there was no
	significant difference in muscle synergy pattern and rowing performance during rowing on FE and SE
	both ergometers could be utilized by experienced rowers
D0008	Mesenchymal Stem Cell Infusion in Chronic Renal Failure Patients
00000	Hala Gabr and <b>Rania Zaved</b>
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	Cairo University, Egypt				
	<i>Abstract</i> —The recently discovered therapeutic potential of mesenchymal stem cells (MSCs) has initiated development of various therapeutic options in a number of diseases. These therapeutic options may help in improving patients' quality of life, through preventing disease progression. <i>Methods</i> : Bone marrow samples from 11 chronic renal failure patients were cultured in appropriate culture medium to isolate MScs. MSCs obtained were identified by their plastic adherence property; positive expression of CD 271, CD 105 and negative expression of CD 34, CD 45 using flowcytometry. Harvested MScs were injected to the patients through transfemoral catheter every other week for six months. <i>Results</i> : The patients were followed up to detect any change in their laboratory tests. Follow up revealed a statistically significant improvement in blood urea, creatinine levels and GFR of p value 0.000. <i>Conclusion</i> : Stem cells are a promising therapeutic approach to ameliorate condition in chronic renal failure patients.				
D0012	Premaiignant Pancreatic Cancer Diagnosis Using Proteomic Pattern Analysis				
	Law Law Huke				
	International Islamic University Malaysia, Malaysia				
	<i>Abstract</i> —Pancreatic cancer is one of the deadliest cancers due to the fact that it does not exhibit symptoms in the early stages. Furthermore, when pancreatic cancer gets diagnosed, it is usually too late. Consequently, early diagnosis is highly essential. The dawn of proteomics has brought with it a glimpse of hope of uncovering biomarkers that can be indicative of early pancreatic cancer. Proteome profiling techniques have become popular in the recent years to try to make sense of high-dimensional proteomic data and to find discrepancies between proteomes of healthy samples and cancerous samples. However, the high dimensionality of proteomics data coupled with small sample size poses a challenge. In this paper, we propose a framework using a hybrid logistic tree technique together with a feature selection technique to diagnose premalignant pancreatic cancer. We have validated our framework on a pancreatic cancer peptide mass spectrometry dataset. Satisfactory preliminary experimental results demonstrate the efficacy of our framework.				
D0013	Leukemia Detection from Blood Smears				
	Lokman Faivdullah, Farid Azahar, Zaw Zaw Htike, Shoon Lei Win, Wei Yan Nyein Naing				
	International Islamic University Malaysia, Malaysia				
	<i>Abstract</i> —Leukemia is a highly fatal hematologic cancer which starts in blood-forming tissue, such as bone marrow and triggers high production of immature and abnormal shaped blood cells. Skilled medical officers or microbiologists are required to diagnose leukemia from blood smears. This poses a problem in remote areas and rural areas where there is a shortage of qualified medical personnel. This paper proposes a computer-aided diagnosis system that can detect and classify leukemia from blood microscopic images. Satisfactory preliminary experimental results demonstrate the efficacy of our system.				
D2002	Pharmacodynamic Evaluation of Tolterodine Tartrate Proniosomal Gel for Overactive				
	Bladder Treatment				
	Jestin Chellian, Guok Leen, Rajan Rajabalaya, Sheba David				
	International Medical University, Kuala Lumpur, Malaysia				
	Abstract. The number of the study is to formulate and such the providence is the study is to formulate and such that a single study is to formulate and such				
	for toltarodine tartrate basides undergoing in vitro and in vivo studies for tractment of every systems				
	syndrome. Method: Propiosomal gels are prepared using various non ionic tweens and spans, lipids and				
	syndrome. Method, Fromosomar gets are prepared using various non-tonic tweens and spans, lipids and				

	soy lecithin via coacervation phase separation method. The formulations are evaluated for their					
	physiochemical properties such as drug entrapment efficiency, vesicles morphology and sizes as well as					
	ATR-FTIR analysis. In vitro skin permeation study and in vivo animal studies are also been carried out to					
	study the effectiveness of the formulations. Results: Tolterodine tartrate is encapsulated in proniosomal					
	vesicles with high yield of above 91% with span (20:60) formulations having the highest entrapment					
	efficiency. In vitro skin permeation study shows concentration-dependent first order permeation of drug					
	over 8 hours and is predicted to have a prolonged effect more than 8 hours. In pharmacodynamics studies					
	such as salivary secretion and micturition shows that proniosomal gel formulation of tolterodine tartrate					
	has quicker recovery of cholinergic effect on salivary gland and improved bladder function than the oral					
	formulation. It is also found that Span formulation S1 has comparable effectiveness as oral formulation.					
	Histological studies of the rats bladder shows improvement in the bladder morphology with proniosomal					
	gel formulation S1 treatment over formulation S3. Conclusion: This study demonstrates the feasibility of					
	using proniosomal vesicles as drug carrier for transdermal delivery of tolterodine tartrate with span (20:60)					
	combinations series being the better formulation.					
D2003	A Study on Pattern of Oral Hypoglycemic Agents Use in Type 2 Diabetes Mellitus Patient in					
	Outpatient Pharmacy Department of a Tertiary Hospital, Malaysia					
	Suresh Shanmugham, Tai Ann Nny, Nurul Suhaida, Suresh Kumar, Sajesh K Veettil					
	International Medical University, Kuala Lumpur, Malaysia					
	Abstract—The prevalence of diabetes mellitus in Malaysian adult population is on the increase which					
	showed in recent studies. With this increase, it has caused in a significant rise in the prescription volume.					
	By using drug utilization research, it helps to determine the profile of oral hypoglycemic agents use. Thus,					
	this study aims to determine the current prescribing trends of oral hypoglycemic agents in a tertiary care					
	hospital setting in Malaysia. Method: This retrospective study was undertaken for a period of 6 months in					
	a tertiary hospital, Malaysia. A total of 1800 prescriptions containing at least one oral hypoglycemic agent					
	were randomly picked and evaluated. The demographic data, pattern of oral hypoglycemic agents use,					
	therapeutic modality were analyzed. Results: The study found that 60% of total selected prescriptions were					
	claimed by males. The greatest numbers of patients (32.5%) were in the age group of 51-60 years. The					
	most widely prescribed oral hypoglycemic agents were Metformin (77.2%), followed by Gliclazide					
	(53.8%). Combination therapy constituted about two- third of the total selected prescription over 6 months					
	period and monotherapy constituted about one- third. Conclusion: Metformin was the most widely utilized					
	anti-diabetic drugs and followed by gliclazide. The most common pattern of oral hypoglycemic use was					
	combination therapy, mainly dual oral hypoglycemic agent's therapy and insulin plus oral hypoglycemic					
	agent's therapy.					
D2005	New Route in Degumming of <i>Bombyx mory</i> Silkworm Cocon for Biomaterial					
	Tjokorda Gde Tirta Nindhia, I Wayan Surata, Zdenek Knejzlik, Tomas Ruml and Tjokorda					
	Sari Nindhia					
	Mechanical Engineering, Engineering Faculty, Udayana University, Indonesia					
	Abstract—This research focused on silkworm cocoon of Bombyx mori grown in Indonesia. In this study					
	the degumming process to eliminate the sericin from the fiber was explored and the result is a separated					
	fiber that is tested for its biocompatibility. The silk can be prepared by degumming method of boiling in					
	0.01 M NaOH for 1 hour. Observation under microscope indicate that The human osteosarcoma cell line					
	(U2OS) able to attach and grow during following two days. This is an indication that the fiber having good					
	biocompatibility by degumming process that is introduced in this report.					

D3001	Antidiabetic and Antioxidant Activity of Jackfruit (Artocarpus heterophyllus) Extract				
	Agung Biworo, Efrilia Tanjung, Iskandar, Khairina, Eko Suhartono				
	Medical Pharmacology Department, School of Medicine Lambung Mangkurat University,				
	Indonesia				
	Abstract—The Artocarpus heterophyllus (Jackfruit) is a species of tree of the mulberry family Moraceae.				
	The plants of Artocarpus species have been used by traditional folk medicine in Indonesia. can be useful as				
	anti-bacterial, anti-diabetic, anti-inflammatory, antioxidant and anti-helmintics. The present study was				
	aimed to evaluate antidiabetic and antioxidant activity of aqueous extract of Jackfruit. The antidiabetic				
	activity were determined by inhibition of haemoglobin glycation method. Phytochemical constituent like				
	ascorbic acid, $\beta$ -carotene and lycopene also determined. Antioxidant activity was measured by hydroxl				
	radical and hydrogen peroxide scavenging activity, and chellating effect of ferrous iron. From the result of				
	this study we can see the increasing of haemoglobin glycation concentration is followed by the increasing				
	of jackfruit extracts concentration. From this study also we found the IC 50 of jackfruit exctracts is				
	56,43 %. The result of this study also showed that the extract of jackfruit has a phytochemical constituent				
	with ascorbic acid is the highest, and followed by $\beta$ -carotene and lycopene. Jackfruit also has antioxidant				
	activity. The highest antioxidant activity is scavenging hydroxyl radical activity and followed by				
	scavenging hydrogen peroxide and chellating of ferrous iron. The result of this study suggest that the				
D2002	Jackfruit extract potential as an diabetic agent.				
D3002	Concentration: A Eccus on Arsonic Codmium and Moreury				
	Iwan Aflania, Ruslan Muhyi and Eko Subartono.				
	Forensic Department School of Medicine Lamburg Mangkurat University Banjarmasin				
	Indonesia				
	Abstract—Heavy metal and their salts are considered as very important group of environmental pollutant				
	which in small quantities may be essential nutrients that protect your health, yet in larger quantity it				
	become toxic and dangerous to human being. One of the major mechanisms behind heavy metal toxicity				
	has been attributed to oxidative stress. This study aimed to invetigate the effect of Arsenic (As), Cadmium				
	(Cd), and Mercury (Hg) on Malondialdehyde (MDA) and Advanced Oxidation Protein Products (AOPP)				
	concentration in vitro. MDA and AOPP level are increased during the exposure of As, Cd, and Hg.				
	Furthermore MDA level positively correlated with AOPP level. It can be concluded from presented study				
	that Arsenic, Cadmium and Mercury caused the increasing of MDA and AOPP levels. This study also				
	suggested that the exposure of Arsenic, Cadmium and Mercury can caused oxidative stress and				
	inflammation.				
D3003	In Vitro Anti-Inflammatory Activities of Red Gemor (Nothaphoebe cf umbelliflora)				
	Yudi Firmanul Arifin, Siti Hamidah, Sudin Panjaitan, Eko Suhartono				
	Study Program of Forestry Lambung Mangkurat University and Consortium of Sustainable				
	ropical Forest Management, Indonesia				
	Abstract—Gemor (Nothanhoehe of umbelliflora) is a tree species that found naturally in swampy forest of				
	Sumatra and Kalimantan. Indonesia. The anti-inflammation activity of <i>red gemor</i> plant parts have not been				
	investigated, therefore many study should be performed. Thus our study aimed to investigate the				
	anti-inflammation effect of different parts of <i>red gemor</i> . Phytochemical analysis of diffrent parts of <i>red</i>				
	gemor extracts revealed the presence of various biochemical compounds such as alkaloids, flavonoids,				

phenolic compounds, triterpenoids and steroid. The anti-inflammatory activities was determined by
inhibition protein denaturation method. Result of this study revealed there is inhibitory action on protein
denaturation. The percentage inhibition varied from 20,154 to 71,667 for highest concentration to the
lowest concentration. The IC50 was found to be 60 for twig, 47,8 for bark, and 116,2 for leaves of red
gemor. To determined which one of the phytochemical constituent in diffrent parts of red gemor are most
influence in anti-inflammation activity, we used linear correlation between IC 50 with alkaloid and
flavonid content in different parts of red gemor. The result suggest that flavonoid are the most influence to
protein denaturation ( $R^2 = 0.9927$ ). The results of the present study suggest that the diffrent parts of <i>red</i>
gemor have anti-inflammation activity. The anti-inflammation activity of different parts of red gemor due
to the phytochemical constituents content in different parts of red gemor, such as flavonoid and alkaloid.



# Afternoon, September 28, 2014 (Sunday)

## SESSION-3 (ICCAE 2014, ICBMS 2014, ICREE 2014) (12 presenters)

## Venue: Drupadi Room

Session Chair: Dr. Saji Baby

Time: 4:10pm-6:30pm

A0006	Selective Adsorption of Cadmium Species onto Organic Clay Using Experimental and						
	Geochemical Speciation Modeling Data						
	Mohamed Elmuntasir Ibrahim Ahmed						
	Kuwait Institute for Scientific Research, Kuwait						
	Abstract—The effect of cadmium speciation on cadmium adsorption onto Hexadethyl-trimethyl						
	ammonium (HDTMA) modified montmorillonite was investigated experimentally and using Minteqa2						
	geochemical speciation model. The results revealed that the increase in cadmium uptake at higher pH						
	values is selective and directly related to the nature of species present and that this increase does not affect						
	the form of cadmium species adsorbed onto the HDTMA modified montmorillonite.						
A1006	Experimental Study on Tunnel Fire Behaviors under Natural Ventilation Using Shafts						
	Chuangang Fan, Jie Ji and Jinhua Sun						
	University of Science and Technology of China, China						
	Abstract-Tunnel safety has drawn public attention due to the occurrence of many catastrophic fires in						

	recent years. Meanwhile, natural ventilation types such as solar chimney and vertical shaft have become
	popular in relevant constructions. However, natural ventilation mode using shafts in tunnel fires are still
	lacking in quantitative analyses. In this study, a set of model scale experiments was carried out to
	investigate the influence of natural ventilation using shafts on tunnel fire behaviors. Two kinds of fuel,
	methanol and n-heptane, were used to model the fire in a small scale tunnel and three shafts were
	employed. The effects of natural ventilation on fire burning rate, fire plume temperature and flame height
	were investigated detailedly and the experimental results were compared with the previous studies.
A1007	Reuse of Ground Granulated Blast Furnace Slag (GGBFS) in Lime Stabilized Embankment
	Materials
	A. Kavak, G. Bilgen
	Kocaeli University, Kocaeli, Turkey
	Abstract—This paper presents an effective way of utilizing the ground granulated blast furnace slag
	(GGBES) which is a by-product of the steel manufacturing process with lime for stabilization of road
	materials. In the study Ankara clay was used for stabilization. Although slag-lime and clay mixtures do not
	affect optimum water contents of clay significantly they decrease dry density and smoothes Proctor curve
	Then the soil transforms into a rapid structure and the modulus of elasticity increases. When the results of
	the experiments were evaluated unconfined compressive strength (UCS) and soaked California Bearing
	Ratio (CBR) values of the soils have shown significant increases. These increases reach to 46 times in
	CBR values for Ankara clay compared to natural case in 28 day-cured samples. This stabilization
	technique is more effective than the lime alone and also the slag will prevent the ettringite formation that
	occurs in lime stabilization with sulfate rich soils that leads swelling behaviour. And finally the slag may
	turn from a waste material into a valuable product for road construction works with huge volumes even at
	far away from the steel factories
D3007	The Relevance of Genetic Polymorphism of CVP1A1_ICAM_1_TNF_q and INSR Genes in
D3007	Women with Polycystic Ovary Syndrome (PCOS)
	Hazwanie Hashim Gan S V and Sivalingam Nalliah
	International Medical University (IMU) Malaysia
	International Wedlear Oniversity (INIO), Walaysia
	<i>Abstract</i> —Polycystic Ovarian Syndrome (PCOS) is a complex endocrine disorder commonly seen in about
	6.5 - 8% of women of reproductive age. Polygenic trait is common in PCOS and various factors related to
	the androgenic pathways and the metabolic syndrome have been studied including genes encoding
	inflammatory cytokines. In this respect we aimed to study the involvement of polymorphisms of four
	genes: cytochrome P450 1A1 (CYP1A1) intercellular adhesion of molecule ( $ICAM_{-1}$ ) tumour necrosis
	factor alpha $(TNF_{-\alpha})$ and insulin recentor gene $(INSR)$ . Twelve women fulfilling the criteria of PCOS and
	145 controls were recruited. In this study $TNF_{-\alpha}$ -1031 (T/C) (rs1799964) is found to be significantly
	higher in PCOS group compared to healthy controls ( $OR = 5.044$ ; CI: 2.139 - 11.899; n-value < 0.05). This
	suggests $TNF_{-q}$ -1031 (T/C) appears to be a potential candidate as a molecular marker in determining
	PCOS risk. This study also found a strong association between PCOS and obesity (BMI>25): obesity is a
	major risk factor of PCOS. Studies of association enables clinicians to have a better understanding of the
	genetic factors for PCOS especially in a multi-ethnic population such as Malaysia, where robust data
	addressing PCOS are still lacking
D3008	Human Panillomavirus and Esonhageal Carcinoma: A Study in China
D3000	Mohammadraza Mohammadzad Mahryar Jintao Lil, and Vi Zang
	Religing university of technology. Ching
	beijing university of technology, China

	Abstract-Eesophagealsquamous cell carcinoma(ESCC) is considered as the ninth most common					
	malignancy in the world. There are a number of suspected casual reasons of this type of					
	carcinoma. The association of viral infection with EC (esophageal carcinoma) has been reported in last 30					
	years. Human papillomavirus (HPV) is said to be a major aetiology in areas with high incidence of					
	esophageal carcinoma, but the prevalence and the role of HPV virus in the aetiology of esophageal					
	squamous cell carcinoma (ESCC) is still uncertain. In this study we designed to evaluate the prevalence of					
	HPV in EC cases diagnosed in pathology department of Hebei. China. In this study 170 cases that were					
	pathologically diagnosed as esophagealcarcinoma were obtained from department of pathology fil					
	Hebei provincebetween2011-2013. DNA material was extracted from formalin-fixed paraffin-embedded					
	tissues (FFPET) and PCR was performed to detect HPV genome In this study negative and positive of					
	were used for HPV 16/18 and beta-globin PCR as internal control. More than 95% of FFPETs had					
	acceptable result in DNA qualification PCR test. Overall prevalence of HPV in tumour tissues was 81 17%					
	in $GP6_{\pm}/GP5_{\pm}$ PCR 40.58% by HDV16 and 40.41% for HDV18. The presence of HDV DNA in econheric					
	In OI $0+7/OI$ J $+1$ CK, 40.36% by III v 10 and 47.41% for Hr v 16. The presence of Hr v DIVA in esophage tymours (high right HDV types 16 and 18) implicates HDV as an of the approximation of the					
	inesophageal carcinoma					
P0003	Studies on the Effect of Nano Diotocatalysis in the Dratroatment of Segurator Deverse					
<b>D</b> 0003	Osmosis Desclination					
	Hespe Al Johri and S Feroz					
	Caledonian College of Engineering					
	Abstract—Sultanate of Oman is experiencing rapid increase in water demand due industrialization and					
	population growth Desalination contributes for about 35% of water demand in Oman and almost all					
	desalination plants are based on conventional energy source. Utilization of solar energy in desalination is					
	good option due its abundance availability throughout the year in Sultanate of Oman. In this paper, the					
	effect of titanium dioxide ( $TiO_2$ ) nano photocatalysis for the pretreatment step of reverse osmosis					
	desalination has been studied. A tubular photo catalytic reactor was operated with TiO <sub>2</sub> thin film coating					
	mode as well as in suspension mode in the presence of sun light. The effect of various parameters viz.					
	Total Organic Carbon (TOC) Dissolved Oxygen (DO) Total Dissolved Solids (TDS) pH and Salinity					
	were studied.					
B0004	Structural Integrity Evaluation of Generator Retaining Ring at Dieng Geothermal Power					
	Plant					
	Hilman Svaeful Alam. Imam Diunaedi, Aditya Sukma Nugraha and Demi Soetraprawata					
	Technical Implementation Unit for Instrumentation Development, Indonesian Institute of					
	Sciences					
	Abstract—The structural integrity of generator retaining ring at Dieng geothermal power plant has been					
	evaluated using analytical and finite element method base on the scenario of the over speed at 100%, 120%					
	and 150% of rated speed. To validate the evaluation, penetrant testing is applied with the retaining ring					
	remains patches to its rotor. Base on the evaluation results of both methods, safety factor against yielding is					
	greater than 1.0. Then based on the penetrant testing, it was not detected the presence of defects on the					
	retaining ring generator surface. However from the displacement result which obtained by finite element,					
	the displacement in third case has the same value as the interference therefore there is a possibility of					
	retaining ring movement from its position that can lead to fretting failure.					
B0005	In Situ Inspection for Generator Retaining Rings Of Geothermal Power Plant 60 MW					
	Imam Djunaedi and Hilman Syaeful Alam					

	Research Center for Physic, Indonesian Institute of Sciences
	<i>Abstract</i> —The structural integrity of generator retaining ring at Dieng geothermal power plant 60 MW has been investigated using NDT method, i.e. visual testing, penetrant testing, ultrasonic testing and crack depth testing. The purpose of this study is to evaluate the integrity of retaining ring without removing the retaining ring from the rotor, because releasing the retaining ring from the generator rotor will eliminate residual stresses therefore the defects are not detected due to residual stress. In addition, this operation has major implications of damage risk, cost, safety and time. The results of the inspection of the above method was not detected the presence of defects on both sides of the retaining ring generator (turbine and exciter side). Therefore, it can be concluded that the retaining ring is not degraded and the service life of components is still appropriate with the specifications of the manufacturer.
B0007	Socio-Environmental Aspects on Solid Waste, Air Pollution, Water and Forest Conservation
	Surrounding Geothermal Area: a Success Story
	<b>Dewi Permatasari</b> , Eko Yuniarto, Wahyu Somantri, and Dedi Supriadi
	P1. Indonesia Power – Generation Business Unit of Kamojang
	<i>Abstract</i> —This paper aims to introduce a company successfulness on environmental management of geothermal industry by enhancing community around geothermal power operation area. Toward improvement of environmental compliance effort, corporate management committed to support the Strategic Programs for environmental and social aspect. Methods on this paper underlined the innovation to integrate environmental behaviorism within social life. It has done by bring together the community, government, and company to persuade public participation on strategic programs that have been successfully held.
	The voluntary program was "Education of Energy Saving and Climate Change for 50 Students", which is strongly connected to energy efficiency and air pollution aspect. It was then followed by the other socio-environmental aspects about the introduction of municipal solid and hazardous waste for "Pelag Local Community". On biodiversity conservation, 25,000 endemic crops were planted in Kamojang Forest, and then Collaborative Action to Conserve the Cikaro Stream was completing the program that involves public participation on water conservation. This entire distinguished program held in 2014 with emphasized purpose is to preserve and protect the environment through community development. To sum up, successful programs shows that collaboration among stakeholder can improve the social values in order to conserve the environment. It is also periodically reported to the Ministry of Environment under Environmental Compliance Assessment, PROPER.
B0009	Computational and Experimental Study of a Gas/Steam Turbine – derivative Axial Flow
	Impulse-type Hydraulic Turbine
	Mark D. Villanueva, and Jonathan C. Maglasang
	Mindanao State University – Iligan Institute of Technology <i>Abstract</i> —In large water supply system where the source is elevated, the water reaches its destination with still a lot of energy to spare. This energy can be tapped by installing appropriate hydraulic turbine along the pipeline. A prototype gas/steam turbine-derivative axial flow impulse-type was designed and simulated using the Solid Works flow simulation software. It was then fabricated and tested. The experimental results indicated that at no load condition, the rotational speed ranges from 650 to 850 RPM depending on the
	water flow rate which ranges from 8.51 to 18.34 l/s. At 381 RPM, the torque was 3.05 N-m and the
	efficiency was 42%. The maximum efficiency occurred within the 300-350 RPM range. The flow at the

	exit was not much disturbed demonstrating that its installation did not hamper the supply line. It is					
	recommended that further studies of prototypes designed on the same concept be done.					
B0010	Utilizing Methane Generated in Anaerobic Leachate Treatment as Renewable Energy					
	Hamidreza Kamalan					
	Pardis Branch, Islamic Azad University					
	Abstract—Methane is a main source of energy. On the other hand, it is a major greenhouse gas. This study					
	aims to investigate generation of methane as energy source from municipal solid waste leachate anaerobic					
	treatment through an up flow anaerobic sludge blanket system.					
	Results show Chemical Oxygen Demand removal has a direct relation with methane generation. It is					
	notable that the about two third of produced biogas consists of methane. On this basis numerical models					
	have been developed to predict methane emission based on time.					
B3001	Design on Direct Crushing Garbage in the Garbage Dump Truck (Case Study for Denpasar					
	City, Bali, Indonesia)					
	I Ketut Adi Atmika, I DG. Ary Subagia, and Tjokorda Gde Tirta Nindhia					
	Department of Mechanical Engineering, Engineering faulty, Udayana University					
	Abstract—In transporting of garbage, a phenomenon that often occurs is spilled garbage on the street.					
	Aside from cause traffic, congestion and air pollution pose a unpleasant odor to the environment, either					
	directly or indirectly have an impact also on public health. This study examines and assesses the					
	performance of traction and vehicle stability performance of trucking garbage crusher which is integrated					
	with screw operated at various conditions / field operations. The analysis is focused on analyzing the					
	behavior of the vehicle rolling. Analysis of vehicle traction performance model is able to overcome various					
	obstacles, with a capable pass climbs up to 49 degrees, with the traction needed up to 2700 N and the					
	minimum prediction engine power of 120 hp. On the road conditions turn up the speed of 60 km / h, the					
	magnitude of the normal force on each wheel is still positive, then the vehicle is still safe for the					
	surrounding conditions.					

7:00pm

Dinner

Conferences ending, thanks !

# **Conference venue**

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## http://www.holidayvillakutabali.com/

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## Contact Method:

ADD: Jalan Pantai Kuta, Kuta Po Box 2099, Bali Indonesia TEL: +62 361 753063

### How to get there

### By flight

Bali is accessible by major airlines.

The Ngurah Rai International Airport services Garuda Indoesia, AirAsia, Air India, All Nippon Airways, Asiana, Austrian Airlines, China Airlines, Cathay Pacific, Eva Airways, Garuda Indonesia, Indian Airline, Japan Airlines, KLM Royal Dutch, Korean Airlines, Lion Airlines. Lufthansa, Malaysia Airlines, Merpati Nusantara , Northwest Airlines, Qatar Airways, Royal Brunei, Singapore Airlines, Thai International Airways, Qantas Airways and Jetstar

### By road

Kuta is 15 minutes drive from the Ngurah Rai International Airport

Taxi charges from the airport to Denpasar is less than USD5.00. The best and most popular taxis are the blue cabs from Bali Taxi (0361-701111) and the orange ones from Praja Taxi (0361-289090).

### By sea

Two of the four Bali sea ports anchored by international cruise ships and yachts are Benoa, South of Denpasar and Padangbai on the East.

Regular ferry services the Padangbai-Lombok route four times daily.

# **APCBEES FORTHCOMING CONFERENCES**

## http://www.cbees.org/events/

DATE	NAME		PUBLICATION
	ICCEN 2014	2014 3rd International Conference on Civil Engineering (ICCEN 2014) www.iccen.org/	Volume of Journal (IPCBEE, ISSN: 2010-4618)
Nov 29-30, 2014 Mauritius	ICECB 2014	2014 3rd International Conference on Environment, Chemistry and Biology (ICECB 2014) www.icecb.org/	Volume of Journal (IPCBEE, ISSN: 2010-4618)
	ICFSH 2014	2014 International Conference on Food Sciences and Health (ICFSH 2014) www.icfsh.org/	Journal of Advanced Agricultural Technologies (JOAAT ISSN: 2301-3737)
	ICESR 2014	2014 International Conference on Environmental Systems Research (ICESR 2014) www.icesr.org	APCBEE Procedia (Journal under Elsevier, ISSN: 2212-6708)
Dec. 13-14, 2014, Kuala Lumpur, Malaysia	ICLSE 2014	2014 3rd International Conference on Life Science and Engineering (ICLSE 2014) www.iclse.org	Journal of Life Sciences and Technologies (JOLST, ISSN: 2301-3672)
	ICFB 2014	2014 3rd International Conference on Future Bioengineering (ICFB 2014) www.icfb.org	Volume of Journal (IPCBEE, ISSN: 2010-4618)
	ICABT 2014	2014 2nd International Conference on Agriculture and Biotechnology (ICABT 2014) www.icabt.org	Volume of Journal (IPCBEE, ISSN: 2010-4618)
Dec. 27-28, 2014, Phuket, Thailand	ICESB 2014	2014 4th International Conference on Environment Science and Biotechnology (ICESB 2014) www.icesb.org	APCBEEProcedia(JournalunderElsevier,ISSN:2212-6708)
	ICCSE 2014	2014 3rd International Conference on Chemical Science and Engineering (ICCSE 2014) www.iccse.org	International Journal of Chemical Engineering and Applications (IJCEA, ISSN:2010-0221)
	ICEBE 2015	The aim objective of the 2015 International Conference on Environment and Bio-Engineering http://www.icebe.org/	APCBEE Procedia (Journal under Elsevier, ISSN: 2212-6708)
Jan. 10-11, 15, 2014, Dubai, UAE	ICPPE 2015	2015 2nd International Conference on Petroleum and Petrochemical Engineering http://www.icppe.org/	International Journal of Environmental Science and Development (IJESD, ISSN:2010-0264)
	ICGCE 2015	2015 2nd International Conference on Geological and Civil Engineering http://www.icgce.org/	Volume of Journal (IPCBEE, ISSN: 2010-4618)

		2015 5th International Conference on Future	Journal of Clean Energy
	<b>ICFEE 2015</b>	Environment and Energy	Technologies (JOCET, ISSN:
		http://www.icfee.org/	1793-821X)
		2015 5th International Conference on Bioscience,	
Jan. 24-25, 2015,	ICBBB 2015	Biochemistry and Bioinformatics	Volume of Journal (IPCBEE,
Taipei, Taiwan		http://www.icbbb.org/	ISSN: 2010-4618)
		2015 4th International Conference on Climate	APCBEE Procedia (Journal
	ICCCH 2015	Change and Humanity	under Elsevier, ISSN:
		http://www.iccch.org/	2212-6708)
		2015 International Conference on Geological	International Journal of
	ICOGE 2015	Engineering	Geological Engineering (IJGE,
		http://www.icoge.org/	ISSN: 2301-3818)
		2015 International Conference on Environment and	Journal of Environmental
Feb. 08-09, 2015,	<b>ICERE 2015</b>	Renewable Energy	Science and Development
Rangoon, Burma		http://www.icere.org/	(IJESD, ISSN:2010-0264)
		2015 International Conference on Food and	International Journal of Food
	<b>ICFES 2015</b>	Environmental Sciences	Engineering (IJFE, ISSN:
		http://www.icfes.org/	2301-3664)
		2015 6th International Conference on	Journal of Environmental
	ICESD 2015	Environmental Science and Development	Science and Development
		http://www.icesd.org/	(IJESD, ISSN:2010-0264)
Eab 14 15 2015		2015 Eth International Conference on Chemistry	International Journal of
Ameterdem	ICCCP 2015	and Chamical Process	Chemical Engineering and
Amsteruam,		http://www.eboop.org/overte/	Applications (IJCEA,
nemenanus		http://www.cbees.org/events/	ISSN:2010-0221)
		2015 4th International Conference on Clean and	Journal of Clean Energy
	ICCGE 2015	Green Energy	Technologies (JOCET, ISSN:
		http://www.iccge.org/	1793-821X)
			International Journal of Food
		2015 6th International Conference on Food	Engineering (IJFE, ISSN:
	ICFEB 2015	Engineering and Biotechnology	2301-3664); Journal of Medical
		http://www.icfeb.org/	and Bioengineering (JOMB,
			ISSN: 2301-3796)
		2015 5th International Conference on Biomedical	Volume of Journal (IPCBEE
Mar. 10-11, 2015.	<b>ICBET 2015</b>	Engineering and Technology	ISSN: 2010-4618)
Seoul.South Korea		http://www.icbet.org/	
,			International Journal of
			Innovation, Management and
		2015 5th International Conference on Environment	Technology (IJIMT, ISSN:
	ICEII 2015	and Industrial Innovation	2010-0248); International
		http://www.iceii.org/	Journal of Environmental
			Science and Development
			(IJESD, ISSN:2010-0264)

Mar. 19-20, 2015, Florence, Italy	ICCBS 2015 ICCUE 2015	2015 2nd International Conference on Chemical and Biological Sciences http://www.iccbs.org/ 2015 2nd International Conference on Civil and Urban Engineering	InternationalJournalofChemicalEngineeringandApplications(IJCEA,ISSN:2010-0221);InternationalJournalofBioscience,Biochemistry and Bioinformatics(IJBBB, ISSN: 2010-3638)InternationalJournalofEngineeringandTechnology
	ICFSN 2015	http://www.iccue.org/ 2015 2nd International Conference on Food Security and Nutrition http://www.icfsn.org/	(IJET, ISSN:1793-8236) Volume of Journal (IPCBEE, ISSN: 2010-4618)
	ICCOE 2015	2015 2nd International Conference on Coastal and Ocean Engineering http://www.iccoe.org/	Journal of Environmental Science and Development (IJESD, ISSN:2010-0264)
Apr. 6-7, 2015, Kyoto, Japan	ICCFE 2015	2015 2nd International Conference on Chemical and Food Engineering http://www.iccfe.org/	International Journal of Chemical Engineering and Applications (IJCEA, ISSN:2010-0221); International Journal of Food Engineering (IJFE , ISSN: 2301-3664)
	ICBAE 2015	2015 International Conference on Biotechnology and Agriculture Engineering http://www.icbae.org/	Journal of Advanced Agricultural Technologies (JOAAT, ISSN:2301-3737); Journal of Medical and Bioengineering (JOMB, ISSN: 2301-3796)
	ICESE 2015	2015 5th International Conference on Environment Science and Engineering	Volume of Journal ( IPCBEE, ISSN: 2010-4618)
Apr 24-25 2015	ICLST 2015	2015 5th International Conference on Life Science and Technology	Journal of Life Sciences and Technologies (JOLST, ISSN: 2301-3672)
Istanbul, Turkey	ICBFS 2015	2015 5th International Conference on Biotechnology and Food Science	International Journal of Food Engineering (IJFE , ISSN: 2301-3664); Journal of Medical and Bioengineering (JOMB, ISSN: 2301-3796)

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