innovation for sustainable growth

NOVALIO Qo

DESIGN

ESEARCH

VEMBER 2012



CONTENTS

Foreword	iii
Welcome Message	iv –
Foreword by RIID2012 Chairperson	v
Background of RIID	1
RIID2012 Objective	2
Chronology of RIID	2
Introduction of RIID	3
Winners of RIID	4 - 7
Gallery	8

Abstracts Invention Category Innovation Category Design Category Exhibition Concept Sponsorship Supported Institution Acknowledgement

WELCOME MESSAGE

Assalamualaikum wbkt and Salam One Malaysia

First of all, I would like to congratulate the Research, Industrial Linkages and Alumni Melaka for yet another successful organization of the Research, Invention, Innovation and Design (RIID) exhibition 2012.

This competition and exhibition is the fourth effort by the Research, Industrial Linkages and Alumni in exhibiting the outcomes of research, invention and innovation by our own versatile lecturers and students and also participation from other IPTAs, IPTS and Schools. I believe that this exhibition is definitely a good avenue for them to participate actively and progress collaboratively in the field of innovation and research.

I am confident that the Research, Industrial Linkages and Alumni in the Melaka campus will continue to address the various challenges that we are constantly facing with a view towards multidisciplinary solutions. Hence, the present exhibition with the theme 'Innovation for Sustainable Growth' is appropriate, and I am certain that this exhibition will bring about more collaborative research and publication.

I therefore would like to take this opportunity to extend a big 'Thank you' to the organizing committee of Research, Invention, Innovation and Design (RIID) 2012 and each and everyone who has made this exhibition a reality. I wish all researchers, lecturers and students a meaningful and enriching experience in coming up with new and innovative inventions. I wish to end with a note of thanks to the Research, Industrial Linkages and Alumni for a job well done.

michight(0) :: :0) =: 105 :: 11: 151: 12 (0120.01)

Yours sincerely, Y.Bhg.Prof Madya Dr Mohd Adnan Hashim Rector Universiti Teknologi MARA Melaka November 2012

BACKGROUND OF PENYELIDIKAN, JARINGAN INDUSTRI & ALUMNI (PJI&A)

PJI&A established in April 1980, started as the Research Management Unit (RMU) or IRDC and was formerly known as the Planning, Research and Development Centre. However in September 1987, IRDC was restructured with its heightened importance in research and consultation in UiTM and was divided into two units, Research and Consultancy Centre (RACC) and Planning and Evaluation Unit. This centre was then renamed Research and Consultancy Bureau in 1994 and on 15 July 2003 it became Institute of Research, Development and Commercialisation (IRDC).

With the mooting of the Deputy Vice Chancellor in March 2008 to take over the intellectual property and commercialisation portfolio, IRDC was given the responsibility to maximise innovation and increase the number of research which will later be published in high impact journals. Ensuing this, on 31 July 2008 IRDC became the Research Management Institute (RMI) to synchronise with UiTM's aspiration to become a Research University that will develop innovation activities and new research. In branch campuses RMI is known as RMU. The department of PJI was officially established in 2009 headed by its Deputy Director, Associate Professor Dr. Roaimah Omar. Under her guidance, Invention, Innovation and Design (IID) started with the RIID showcase in August 2009 and this was followed by the first IID exhibition and competition in October 2009.

PJI&A is mainly responsible to manage, monitor and facilitate researchers in conducting their research in the area of science and technology, management and social sciences. It also provides consultation services to researchers and assisting them in their research claims. PJI&A also conducts seminars and workshops to encourage, motivate and train the academic and non-academic staff in research and consultation, securing research grants and projects, to manage good financing and also manages entrepreneurial and alumni activities.

Objectives

- To promote word-class research.
- To administer, coordinate and provide service for research development, consultation and research publications.
- To provide assistance in exploring new subjects and identify niche area of interest.
- To disseminate information and provide ample training in research, consultation and publication of research.
- To disseminate information and provide ample training in research, consultation and publication of research.
- To provide related service through the latest technology
- To assist in research and the monitor intellection of the integration of the integrati

Vision

To become the leading administrative centre for research, development, consultation and world-class research publication.

Mission

To enrich the academia, creative ability and innovation through quality service.

INTRODUCTION TO RIID 2012

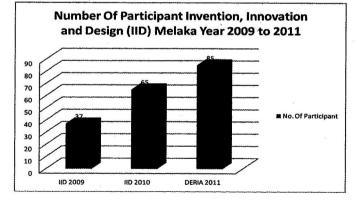
Innovation activities can be considered as an important mechanism for the nation's progress. RIID2012 Melaka anchors on the objective to produce individuals who are capable of formulating creative ideas and be highly competitive. UiTM is an institution which primarily puts emphasis on an innovative culture among its staff and students to form a critical thinking society, possessing creativity skills and elevated knowledge. Aligned with the government's aspiration to cultivate innovation, UiTM Melaka has taken the initiative to organise RIID2012 Melaka Innovation Festival.

To raise the status of local universities globally or among the KPI which has been determined by the Ministry of Higher Education (MoHE) and to achieve the status of Research University, the total number of innovation being produced by a university is of utmost importance. Innovation is a vital catalyst to attain the status of a developed nation in the year 2020. Parallel to this, UiTM Melaka is carrying the nation's aspiration through innovation programmes wherein the staff and students' creativity and innovative abilities could be brought to greater heights through competitions and innovation exhibitions held every year.

To consistently produce innovation, IID competitions can act as one of the ideal channels or medium to ensure students, lecturers, administrative officers and the public to exhibit or display their products or prototype as well as new ideas that contain commercial values. The first IID held at UiTM Melaka level took place in 2009. It successfully exhibited more than 37 products. To continue the innovation culture within the campus community, IID competitions should be maintained. The number of participation showed an encouraging response with 45 products being exhibited in the following year. The third IID known as DERIA 2011 was given a new facelift with an estimation of nearly 100 products that competed. Therefore, the Research, Industrial Linkages and Alumni Division (PJI&A) suggested organising the 4th IID in 2012. The IID competition this year is known as RIID2012 with the theme 'Innovation for Sustainable Growth'. The theme is chosen as innovation is believed to be the main impetus for growth that would spearhead the nation towards becoming a high income developed nation.

Therefore, the Research, Industrial Linkages and Alumni Division (PJI&A) has suggested to organise the 4th IID in 2012. The IID competition this year is known as RiiD2012 with the theme 'Innovation for sustainable growth'.

R= research, I = invention, I= innovation, D= design = RIID



1st IID: LET'S IID 2009

Gold Medal

- 1. Asmaradana (Video clip) by FSKM
- 2. Pinggan Rasmi Istana Melaka by FSSR
- 3. Rekabentuk Maskot dan Logo SUKMA 2010 Melaka by FSSR
- 4. eXtention-C by FPN
- 5. CD Interactive Cartoons on Sexual Education for Young Children by FSSR
- 6. Grammar Mania A Game For The Language Classroom by FPEND
- 7. Dara Pujaan (Short Film) by FKPM
- 8. Kalkulator Zakat Mudah Alih @zakatfon by IKAZ
- 9. Smart Easel by FSSR
- 10. Dhobi Wallah The Last Laundrette Mohican (Documentary) by FKPM
- 11. e-Inventori ICT System by FSKM

Silver Medal

- 1. Teguh 11 by FSSR
- 2. Songket Rasmi Negeri Melaka by FSSR
- 3. Workout with English by FSKM
- 4. Smart Drawing Board by FSSR
- 5. i-Masjid by IKAZ
- Photo Gallery 2009, The Good, The Bad and The Ugly: Journey of Emotions (Sweats of Heart;s Desire) by FKPM
- 7. Dulang Bekas Kuih Raya 1 by FSSR
- 8. MyPJI-Portal by FSKM
- 9. Academic Predication Model Neural Network for Computer Sciences Students in UiTM by FSKM
- 10. Mobile Archery Scoring System by FSKM
- 11. e-Aduan ICT System by FSKM

Bronze Medal

- 1. Sistem e- GL Staf by FSKM
- 2. Postcards as Affective Image Makers for Melaka Tourism by FSSR
- 3. Impact of Economic Growth on Air and Water Pollution in Malaysia by FPP
- 4. Snakes and Ladders (Literature) by FPEND
- Reka Bentuk Komunikasi dalam Penjenamaan Semula Identiti dan Imej Lokasi Pelancongan di Negeri Melaka (Melaka River Cruise) by FSSR
- 6. Photo Gallery 2008, The Good, The Bad, The Ugly: Journey of Emotions (Life) by FKPM
- 7. Malaysian MotoGP 2009 Booklet by FFPM
- 8. Penghasilan Functional Sculpture/Decorative Objects/Design Object (Terendak Lampu Hiasan) daripada Logam Terpakai/Terbuang dengan Teknik Kimpalan Beracuan by FSSR
- 9. The Sale and Purchase Agreement: Creating and Innovative Glossary to Make It More Comprehensive
- 10. KOMIK: Catatan SI MAHASITUA by FSSR

Faculty with the Highest Number of Participation Category: FSSR

Best Booth Category: Asmaradana (Video Clip) by FSKM

Best Poster Category: Kalkulator Zakat Mudah Alih @zakatfon by IKAZ

DERIA 2011

Best Interactive Category: 2nd Group, Noor Suhaida binti Aziz / Nornadia binti Jonari, UiTM Melaka

Best Young Inventor Category: QI FIND (Qiblat Finder for the Blind) Mohd Alif bin Mansor (L), Sek.Men.Keb. Teknik Kuala Lumpur

Best Invention Category (Open): Welca Troly OK2011 Mohd Firhan bin Morni (L), UiTM Shah Alam

Best Invention Category (Student): Automatic Observer Vehicle Zulkarnain bin Jamak (L), Politeknik Ungku Omar

Best Innovation Category (Open): Smart Ampoule Breaker Amiruddin bin Mohd Yusuf (L), Hospital Segamat

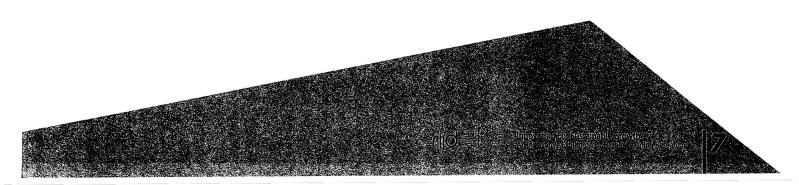
Best Innovation Category (Student): PSC: A Public Sector Comparator (PSC) Khairizam Ismail (L), UiTM Shah Alam Bronze Medal Best Design Category (Open): Portable Stool for "Home n Garden" Zulkarnain bin Hassan (L), UiTM Perak

Best Design Category (Student): Jelajah Melaka-Muar Nasya-Nani bt Mat Isa (L), UiTM Melaka

Best Booth: Pesanan Khidmat Masyarakat 'Kawan' Muhammad Azril Izuan bin Ramlan (L), UiTM Melaka

Best Poster: QI FIND (Qiblat Finder for the Blind) Mohd Alif Mansor (L), Sek.Men.Keb. Teknik Kuala Lumpur

Diamond Award: Smart Ampoule Breaker Amiruddin bin Mohd Yusuf (L),Hospital Segam



PROGRAMME TENTATIVE

Date: 7 November 2012 (Wednesday)

TIMETENTATIVE8.15amRegistration9.00amExhibition and Judging (Session

- 11.30am Cultural Presentation
- 12.00pm Lucky Draw I
- 1.00pm Rehat / Makan Tengahari
- 2.30pm Pameran & Perjurian (Sesi II)
- 3.00pm Mind Challenging Game
- 4.00pm Lucky Draw II
- 5.00pm Adjournment
- 5.10pm Registration for Tour of Melaka City
- 5.30pm Optional : River Cruise Melaka/
- 11.00pm Jonker Street/Taming Sari

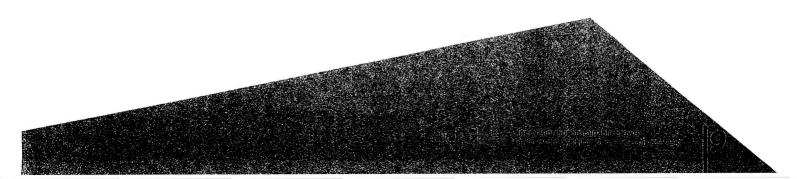
Date: 8 November 2012 (Thursday)

TIME TENTATIVE

- 8.15am Registration
- 8.30am Arrival of Guest Speaker
- 8.35am Breakfast
- 9.00am Genovasi Briefing
- 10.00am RIID 2012 Exhibition
- 11.00am Lucky Draw 3
- 12.30pm Break/ Lunch
- 2.00pm Innovation Talk by Animosta Studios S/B
- 3.00pm Arrival of PM Zulkifli Abdul Majid (Director of RIBU)
- 3.20pm Welcome Prosession for VVIP, Rector and Deputy Rector UiTM Melaka
- 3.25pm National Anthem and Wawasan Setia UiTM
- 3.30pm Doa Recital
- 3.40pm Opening Presentation

3.45pm	Speech by Chairperson of RIID 2012, UITM
•	Melaka

- 3.50pm Speech by Rector
 - Official Opening and Closing bby PM Zulkifli Abdul
- 4.00pm Majid (Repsenting Assistant Vice Chancellor (Research), RMI UiTM Shah Alam)
- 4.20pm Launching Gimmics Multimedia Presentation
- 4.25pm Visit to Exhibition Booths
- 4.40pm Press Conference
- 5.00pm Award Presentation
- 5.35pm Closing Ceremony
- 5.40pm Photograph Session
- 5.45pm Tea Break



COMMITTEE RIID 2012

Certificate

Ustz Husnul Rita bt Aris Pn Siti Hajar Abd Aziz Noofazreen Binti Mohd Aris Mariam Farhana Adibah Binti Bahori Pn Zaiton Hasan Cik Rabiah Ibrahim

Audio Visual and ICT Equipment Puan Rohayu Hj. Ramli

Refreshment

Ustazah Noraini Ismail Vani a/p Tanggamani Siti Anis Nadia binti Abu Bakar Puan Siti Rohana binti Daud

Event Manager

Saloma Emang Zarina Begum Ebrahim Nurul Ain Mustakim Muna Kameelah Sauid En. Mohd Hatta Mohd Yatim

Logistic and Tour

Akmal Adanan Tania Maria Tangit Noor ibtisam Abdul Karim Abu Zaireen Abu Hassan Norfaezah Khalet

- Montage
 YM Tengku Shahril Norzaimi Tg. Hariffazillah
- Video and Photographer Shahril Anuar Abdul Ghalim
- Innovation Talk
 Pn Ilya Yasnorizar Ilyas
 Nadia bte Abdullah
- Food Stall Prof Madya Zaihan Abd. Latif Puan Nor Hamiza Mohd Noor

Judges

Prof Madya Dr Maheran Katan Dr. Shafinar Ismail Pn Alisa Ibrahim Pn Suhailah Kassim Ainaa Idayu binti Iskandar Azlin Zanariah binti Bahtar Nur Hidayah binti Zaini Nurhaslinda Hashim Ahmad Syaifullizan Zulkeefly Sulaiman Mahzan

Facility and Equipment

Puan Norliyah Munjat En, Izwan Sham Izhar En. Saiful Hamzah Abd Rahim En. Alias Tompang En. Mohd Radzie Mohd Ramli En. Mohd Hazrie Tahar En. Mohd Nor Rajian En. Mohd Suhaimi Abdul Rahman En, Razul Sharif En. Mohd Sufian Md Ali En, Faizul Ab, Razak En. Ahmad Nasrin Mansor En, Yahva Abdul Pn. Murni Abu En. Amran Abdul Razak En, Nor Azizan Abdullah Pn. Nor Hidava Baba Cik Siti Husnima Md Husin

Writers and Editors

Prof Madya Dr. Roaimah Omar Pn. Norbaiti binti Tukiman Mohd. Shaleh Mujir Affifah Fadhlullah Dr. Geraldine De Mello Pn. Mahdalela Rahim Pn. Afidah Bidin Isma Izza Mohamad Esa Pn. Rafidah Abdul Karim Nurul Huda Mohamad Saad

innovation for sustainable growth

ALL CONTRACTOR

Acknowledgement

Research Innovation And Business Unit (RIBU) UiTM Shah Alam Research Management Institute (RMI) UiTM Shah Alam Division of Administration, UiTM Melaka Division Of Academic Affairs (HEA), UiTM Melaka Division Of Student Affairs (HEP), UiTM Melaka Division Of Facility and Infrastructure Developement (BPF) UiTM Melaka Treasury Department, UiTM Melaka Corporate Office, UiTM Melaka Residence & College Management UiTM Melaka Security Unit, UiTM Melaka IPTA, IPTS, College & School All UiTM Branch Campus

Division Of Research, Industial Linkages And Alumni (PJIA) Universititi Teknologi Mara (UITM) Melaka

Innovation For Sustainable Growth

Email :riid2012@melakauitm.edu.my Web :http://melaka.uitm.edu/riid2012 65.

CHLOROPHYLL PRINT: Transformation of Man Made Conventional Technology Photographic Process Into Natural Process (Photosynthesis)

Jabatan Fotografi Dan Pengimejan Kreatif Fakulti Seni Lukis Dan Senireka UiTM Melaka

DONA LOWII BINTI MADON, NIK NOR AZIDAH BIN TI NIK AZIZ, WAN NOR AYUNI BINTI WAN MOHD ZAIN, NOR FARIZA BINTI BAHARUDDIN & RAZIQ BIN ABD SAMAT

Abstract

The glorious past hidden each façade, Malacca has became the city that boasts a two-pronged development via industrialization and tourism. As an environmentally photograph produced via chlorophyll prints, we considered this raise awareness idea is on finding an alternative process for non chemical uses in photography. A review of the literature through Binh Danh Chlorophyll Process reveals that by placing a negative in contact with living leaf and then exposing it to sunlight, the image literally becomes part of the leaf. This process deals with the idea of elemental transmigration - from conventional method of photography developing process to natural process (photosynthesis). The faded colours of the leaves and detail of the lines and veins indirectly represent the time element that creates historical contacts whereby Malacca heritage items are used in this research. This research therefore explores the potentiality of local weather of Malaysia to achieve this experiment. The result of the experiment is an art piece in a form of postcard with Malacca identities as the limitation.



Cilent Assessment on Audit Firm's Quality (CAAF-Q) Fakulti Perakaunan dan Institusi Penyelidikan Perakaunan (ARI), UiTM Shah Alam

PM Dr. Zuraidah Mohd Sanusi, Yusarina Mat Isa, Razana Juhaida Johari, Aziatul Waznah Ghazali & Siti Salwa Mohamad.

Abstract

Public companies are required to have annual external audit investigation which is an unbiased, independent review of a company's business and financial situation conducted by an audit firm. In assessing the audit firm suitability, the firm's management often consider several evaluation criteria that may include objective (e.g. technical capabilities, audit firm size), as well as subjective criteria)e.g. the personality of audit team). However, without past experience the firms' management normally select the respective audit firm based on the advice of colleagues within their industry as to decrease some of the risk involved. This practice is subject to criticize as it involves the opinion of the existing audit firm's client. Therefore, the needs for a standard key performance indicators (KPIs) is highly demanded to enable the public organizations to assess and rate the performance of the audit firm. CAAF-Q is aimed to facilitate and provide a guideline on client assessment toward audit firm's quality and convince them in rating and choosing the appropriate audit firm. Besides, this product also offers an avenue for client analysis regarding the quality of audit firm that will enable them in selecting a suitable auditor to audit their company. Practically, CAAF-Q would be useful for all companies that registered under Registrar of Company (ROC) to comply for compulsory audit services.