

Optimizing Innovation for Global Commercialization



Optimizing Innovation for Global Commercialization



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Division of Research,
Industrial Linkages & Alumni (PJI&A)
Universiti Teknologi MARA Melaka

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Optimizing Innovation for Global Commercialization

Research, Invention, Innovation Design

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background of RESEARCH, INDUSTRIAL LINKAGES & ALUMNI

Objectives

- To promote world-class research.
- To administer, coordinate and provide service for research development, consultation and research publication.
- 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 ensure innovation, quality research, consultation and publication are maintained.
- To assist in research publication for high impact journals.

Vision

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

Mision

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

Division of Research, Industrial Linkages and Alumni or known as PJI&A started as the Research Management Unit (RMU) or IRDC and was formerly known as Planning, Research and Development Centre which was established in April 1980. 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 to Research and Consultancy Bureau in 1994 and went through another name change to become Institute of Research, Development and Commercialisation (IRDC) on 15 July 2003.

With the mooted of the post of 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 was changed to Research Management Institute (RMI) to synchronise with UiTM's aspiration to become a Research University that will develop innovation activities and new research. It was only in 2011, that RMI became the Research, Industrial Linkages and Alumni Division (PJI&A), headed by its Deputy Rector, Associate Professor Dr. Roaimah Omar. Under her tutelage, Invention, Innovation and Design (IID) was born in 2009.

The different divisions or units in PJI&A are responsible to manage, monitor and conduct research in science and technology, management and social sciences, consultation, financial assistance for consultation, innovation, publication and Information for Research and Consultancy (INFORAC). PJI&A also conducts seminars, workshops and roadshows to encourage, motivate and train the academic and non-academic staffs in research and consultation, securing research grants and projects, to manage good financing and publish research in a responsible and ethical manner.

RIID2013 OBJECTIVES

General Objective

To display research, invention, and design from various institutions (IPTA/IPTS) that can be commercialised for global benefit

To culturalise research and innovation through the sharing of expertise and commercialised, creative and innovative ideas

To instill interest and encouragement to the public towards research, invention and innovation that poses as a medium for the nation's development.

Specific Objective

To identify and promote new and inventive discoveries that are commercialised, creative, and innovative from various institutions (IPTA/IPTS) all over Malaysia.

To select discoveries and new invention to be contested in the national and international level.

To uphold the reputation and image of UiTM as a well-known pioneer in innovation and invention in the national and international level.

CHRONOLOGY OF RIID

RIID Showcase

7 August 2009,
Dewan Kuliah 2,
UiTM Melaka.



1st IID LET'S IID

13 August 2009,
Dewan Bendahara,
UiTM Melaka.



2nd IID Enculturation Of Research & Innovation

5 October 2010,
Dewan Bendahara,
UiTM Melaka.



RIID 2013 Optimizing Innovation For Global Commercialization

16 - 17 December 2013,
Dewan Taming Sari,
UiTM Melaka.



RIID 2012 Innovation for Sustainable Growth

7 - 8 November 2012,
Dewan Taming Sari,
UiTM Melaka.



DERIA 2011 Sound, Image & Object

21 - 22 July 2011,
Mini Stadium Bistari,
Ayer Keroh, Melaka.

foreword message by

CHIEF MINISTER MELAKA



YAB Datuk Seri Ir. Haji Idris Haron

*Chief Minister Melaka
December 2013*

***Assalamualaikum wbk and
best greetings Salam 1Malaysia,***

And foremost, I would like to congratulate Research, Industrial
Parks and Alumni Centre (PIAC), Universiti Teknologi MARA
(UiTM) Melaka for yet another successful organisation of this
rich, Invention, Innovation and Design Exhibition 2013 (RIID

In the era of globalisation, the Malaysian government is stepping
up its efforts in developing the country and its people, be
ing by launching a holistic socioeconomic development programme.
Our Prime Minister Datuk Seri Mohd Najib Tun Abdul Razak
has introduced a massive transformation agenda in implementing the
programme with its approach and philosophy. The Prime Minister has
also outlined five-key strategic thrusts under the 10th Malaysia
Plan (10MP) to enable Malaysia to become a high-income and
developed nation by 2020.

Therefore, the National Key Results Area (NKRA) and the Key
Performance Index (KPI) were introduced towards achieving vision
2020. While moving towards achieving a developed country status,
Malaysia needs to draw up a new approach which emphasises on
quality human capital, innovation and creativity. The government in
addition has to operate as competitive corporation.

I would like to congratulate UiTM Melaka for supporting the
country's vision by hosting RIID2013 competition and exhibition.
With its theme Innovation for Sustainable Growth, this event is a
positive initiative to encourage professionals and academicians
alike to enhance their knowledge and practical skills and these are
parts of their contribution for the nation's building.

When research activities are conducted continuously, it is expected
that more innovations will be generated. UiTM Melaka's initiative
is highly commendable as it manages to attract 340 products to
be displayed and competed at this event. It is hoped that this event
will serve as a catalyst in enhancing the roles of professionals in
various industries.

***Assalamualaikum wbkt, Salam 1Malaysia
and Salam UiTM Sentiasa Di Hatiku.,***

I would like to welcome our honourable guests, professionals, and academicians from schools, colleges and universities to the 5th Research, Invention, Innovation and Design 2013 (RIID 2013) competition proudly organised by the Research, Industry Linkage and Alumni Division (PJI A) Centre Universiti Teknologi MARA (UiTM) Melaka.

In line with the government's aspiration to nurture and cultivate innovation, UiTM Melaka has taken the initiative to organise RIID 2013 Melaka Innovation Festival. One of the main objectives of the event is to raise the status of local universities globally. To achieve the status of a Research University (RU), one of the criteria is to emphasise on high impact innovation research which leads to invention of new business models, or innovative processes. This would result in an improved efficiency of the organisation and contributes towards better quality of life.

Since innovation is a vital catalyst to attain the status of developed nation in the year 2020, UiTM Melaka is heading the nation's call to attain aspiration through innovative programmes with staff and students. These creative and innovative abilities could be brought to greater heights through competitions and innovation exhibitions held annually. During this two-day event, a talk on innovation will also be held. Innovation is one of the key factors that could push the economy forward. In line with the strategic thrusts, the RIID 2013 competition will serve as a platform for researchers to expand their researches into innovations while becoming a venue for them to showcase their products, prototypes and new ideas.

This competition also serves as a platform for students, lecturer's administrative officers and the public to demonstrate their products or prototypes as well as sharing new ideas for commercial value. Therefore, PJI A decided the Optimizing Innovation for Global Commercialization as our theme for this year 5th Research, Invention, Innovation and Design 2013.

I am proud to announce that the number of participants in this event has increased to more than 300 participants compared to the previous year event. I would like to extend my sincere thanks and gratitude to the committee members who have persistently given their full commitment to this event.

I wish all the participants all the best in the competition.

foreword by
RECTOR



Associate Professor Dr. Adnan bin Hashim

*Rector
Universiti Teknologi MARA Melaka
December 2013*

foreword by
**DIRECTOR OF
 AKEPT**



Prof. Dr. Mohd Majid Konting

*Director
 Higher Education on Leadership Academy (AKEPT)
 December 2013*

Assalamualaikum wbkt and Salam 1Malaysia

First of all, I would like to congratulate the Research, Industry Linkage and Alumni Division (PJIA) Centre Universiti Teknologi MARA (UiTM) Melaka for yet another successful organisation of the Research, Invention, Innovation and Design Exhibition 2013 (RIID 2013).

This competition and exhibition is the fifth effort by the Research, Industrial Linkages and Alumni Centre in exhibiting the outcomes of research, invention and innovation by our versatile lecturers and students. It's encouraging to see that the competition has also attracted participation from other IPTAs, IPTS and schools. I believe 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 PJIA UiTM Melaka will continue to address the various challenges that we are constantly facing with a view towards multidisciplinary solutions. This year's theme of Innovation for Sustainable Growth is appropriate timely 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 RIID 2013 organising committees and those who have contributed directly or indirectly in making this exhibition a big success. 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 Centre for a job well done.

Smart Bulb Changer

Ruslan Bin Abdul Jalil; Hazreen Bin Othman ; Muhammad Syafiq Bin Mohd Zuber (Student Group Leader); Nurul Farahin Binti Mahat; Muhammad Nur Asraf Bin Mohamad Ali; Asmadi Bin Ahmad; Mardiana Binti Musa ; Mohamad Shahril Bin Ibrahim

Politeknik Merlimau, Melaka

“Smart bulb changer” is an innovation of installing and changing energy saving bulbs that was used as a down light at homes, offices, halls or the buildings. This innovation can avoid electric shock and body injury towards user as the bulb glass broken due to excess pressure or bulbs fall down during changing and installing. The idea of design concept is a combination of the application of “push up pencil” and “fishing reel system”. The main focus in “Smart bulb changer” system is its ability to change and install of 6 or more bulbs at a time, safely, practically and easy to use. With this tool, indirectly help to reduce accident cases resulting from the changing and installation of the bulbs.

MOSAIC INSTALLATION TOOL

Juliyana Binti Hussin; Mohd Zulfadli Bin Mohd Yazid ; Mohd Noor Hafiz Bin Bachok@Nong Chik ; Siti Natasha Binti Mohd Yusof ; Nor Faizah Binti Mohd Esa

Politeknik Merlimau, Melaka

Our Mosaic Installation tools are designed to install the tiles more easily, accurately and neatly. This Mosaic Installation Tool is also used by less skilled workers and can reduce installation labour. This tool can be used in homes, for example in the living room, bathroom, kitchen and garage. In addition this tool can also be used in small buildings. These Mosaic Installation tool can facilitate the labour force install mosaic with easier and faster. The materials used in this kit are like glass suction and spirit level. The purpose of the research conducts to design and produce smart installation tools. This mosaic installation tool will help the unskilled worker get more easily to install the mosaic. It also can improve the efficiency of the installation work. In addition, these tools can reduce waste cement, thus helping to reduce the cost of construction. This tool is also very easy to use and easy to carry when making installation work. In addition, by using this tool mosaic installation is tidier. Mosaic Installation tool is the right tool in the production of Installation work. Suitable Mosaic Installation Tools for construction that is small and aim learning. With item addition the rest, facilitate further usage Mosaic Installation Tools in future time. Result of respondent from questionnaire. Questionnaire is divided into two sections. Section A is a general question and Section B involve Mosaic Installation Tool's question.