

CELEBRATING
COMMERCIALISATION
YEAR 2014

iiindex 2014

AN INTERNATIONAL EXPOSITION ON RESEARCH AND INNOVATION

invention
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exposition 2014

INNOVATEUR
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2014

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UNIVERSITI TEKNOLOGI MARA
MALAYSIA

*Bridging
the valley of death :
advancing the
commercialisation
of research*

RESEARCH BOOK

iiindex2014

AN INTERNATIONAL EXPOSITION ON RESEARCH AND INNOVATION

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FOREWORD

The Honourable Minister of Science, Technology and Innovation (MOSTI) has launched 2014 as Malaysia Commercialisation Year 2014 (MCY2014) with the theme Science Technology and Innovation (STI) for Wealth Creation. In line with this theme, Invention, Innovation, Design & Exposition 2014 (iidex2014) is an annual exposition organized by UiTM and is the ultimate platform to highlight and commercialise new inventions and innovations. Researchers and inventors will exhibit their products which cater to the needs and wants of the community and the country.

The iidex2014 creates a new dimension by fusing two competitive concepts, a competition among innovative products and a competition to invite Innovateur Wannabes to perform live pitching of their products to the audience. The iidex2014 focuses on comprehensive commercialization and creating opportunities for entrepreneurs to carry out R&D as well as to provide avenue to commercialise their products. Through expositions such as iidex2014, MOSTI hopes to inculcate the culture of commercialisation of new technology designed and created by Malaysians.

I wish to congratulate all the participants of the iidex2014 and this is the opportunity for all researchers to show their ideas and exhibits their products and creativity. Apart from showcasing their products, innovators will have the opportunity to provide a window to the industry for business matching during the exposition.

Tan Sri Dato' Sri Sallehuddin Mohamed
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PUBLIC DENTAL EDUCATION: AN ENTERTAINING APPROACH

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The internet is known to be the main 'search engine' for obtaining any information by the public. However, much of the information obtained and reported in the internet is neither being validated nor known to be from the right source. Similar trend is seen in dental environment, where usually patient self-educate themselves prior to the doctor's appointment regarding their own problems and treatment options available. False or inaccurate information will jeopardise the crucial discussion and examination that ascertain the problem diagnosis, and also may negatively affect the patient-doctor relationship. This project aims to create an interactive Apps regarding public dental education, specifically in the restorative dentistry field. This Apps provides true and validated information regarding restorative dentistry and can be downloaded and used by the public. Apps in a game concept is being developed, so that dental information can be made available in a fun filled and interactive manner. Illustrated and short presentations for different types of treatment in restorative dentistry will be shown interactively. Then, common clinical scenario problems are created and given to the patients. Patients are required to choose the best treatment option from their understanding of the prior presentations. Expert comments will then be given for each treatment option chosen to enhance patients' understanding of the clinical implications and relevance. The Apps is expected to educate patients in a fun filled and interactive way. Patients will be given validated information from correct sources, with peer-reviewed references. This will improve patient's knowledge in dentistry and consequently improve patient-doctor relationship and also their oral health quality.

UTILISATION OF CARIOGRAM SOFTWARE TO EDUCATE PATIENTS ON CARIES RISK ASSESSMENT

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Cariogram is a new and interactive method in dentistry, showing how the contributing factors of caries may interact. It was first made available on-line as a Windows-based system, and only recently the Mac version can be downloaded free. Objectives: The objective of this project is to implement this method to the staff and dental students of Faculty of Dentistry, UiTM. To gauge whether there will be better acceptance by the dental staff and students in line with the current trend of blended learning. A part of students' interactive learning to enhance communication skills especially student patient interaction. To customize to our local custom and sensitivities to suit our patients needs. This will shorten the time for the operator to carry-out caries risk assessment when compared with the manual pen and paper method. The outcome of the print-out will be more interactive as well as effective. This will also facilitate the follow-up and monitoring of patient's caries progression hence prevention. This will allow a prototype to be developed as applications suitable to run on tablet PCs.