

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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HEALTH CARE PROVIDER (HCP) FRIENDLY PEN

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We created a multifunctional pen with multipurpose use. This pen is practical for health worker especially doctors and nurses. Some of the features of this pen are different types of colour (green, red, blue, and black), rubber calculator, digital clock, and pen light. We propose four different types of colours for this pen because usually the health workers especially nurses need to record some details of their patients using different colours. For example, if the patient's baseline data is normal, nurses will record the data in blue or black pen colour. However if there is any abnormal reading, the red colour pen will be used. The green colour is usually used for intensive care unit (ICU) nurses to record some data finding. By gathering these four different colours of pen, we will save the space of storage in nurses' pocket. They need to only have one pen instead of several pens of different colours. Secondly, we included the rubber calculator because nurses need to do some calculation such as calculation of medication dosage. Using the rubber calculator in this pen, they will look professional when using this calculator instead of using their hand phones in front of the patients and family members. By having this pen, all health care workers have their own calculator. Thirdly, we include digital clock on this instead of analog clock because the health workers can set time needed. For example, to count the pulse rate within one minute, they just set it for 60 seconds and wait for alarm beep when the time is up. Thus by attaching this pen light in this pen, they will put in one pocket with only one device. The technology we used for this pen is using solar energy for digital clock and rubber calculator. Rubber calculator feature is like by folding it in the pen. In addition, this pen also has a pen light with LED light which works on batteries. We designed this pen as to be user friendly. This pen is easy to hold, easy to grip and easy to write without any fingers ache if they write in long hours. In conclusion, this HCP Friendly Pen is created to ease health workers task, save space and convenient for health staffs.