

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

27th - 30th
APRIL 2014
DEWAN AGUNG TUANKU CANSELOR (DATC)
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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AMBER FILTER WITH SELF-ADMINISTERED NEAR VISION SCREENING CARD

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Visibility is defined as the greatest distance at which an object can be seen and recognized in either daylight or at night when the general illumination is increased to a daylight level. Visibility can be influenced by several factors, which include colour and contrast. Previous studies, which investigate the effects of colour combinations to level of visibility and visual performance on road signs, found that there is a significant difference in the level of visibility with different colour combinations ($p < 0.05$). It is clearly understood that in our nature environment and work tasks, each factor described above is variable, which in turn varies the level of visibility. Based on the supportive evidence from previous studies, visual aid such as amber lens can be used as an application to improve the level of visibility of a person in his/her daily work tasks. The amber filters with the near vision screening card can improve people's eyesight, thus generate substantial economic benefits, and can make a major contribution to Malaysian development. In addition to the filter, the card also consists of a modified near vision test that can be self-administered. This test acts as a simple do-it-yourself screening for near vision. This eventually leads to the user's awareness of their own near vision problem. This is in line with the nation's recommendations in GTP, to drive the high-income countries as well as generate the health and work performance. Previous Study: Ahmad, A., Chen, A., Zulkifli, S., & Rosli, S. A. (2013). UiTM study on road signs in Malaysia: The impact of information volume of road sign on level of visibility. *International Journal of Enhanced Research in Science Technology & Engineering*, 2(6), 38-41. Aladin, A. Z., Rosli, S. A., & Chen, A. (2012). Visibility Comparison of Colour Combinations Used in Road Sign Design. *Universiti Teknologi MARA (UiTM)*. Publication in reviewed. *Iranian Journal of Ophthalmology (IrJO)*. Rudin, A. M. A., Saliman, N. H., Rosli, S. A., & Ahmad, A. (2011). Enhancement of contrast sensitivity by wearing amber tinted lens between youth hockey player and non-hockey player. *2011 IEEE Colloquium on Humanities Science and Engineering*, 902-906. doi:10.1109/CHUSER.2011.6163868.