

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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TYRE RESCUE KIT

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This invention uses the exhaust system of the motorcycle to inflate the tyre. The air pressure blown out from the exhaust system will allow the tyre to inflate. The amount of air or pressure flowing into the inflatable item could be either increased or decreased using the throttle control of the motorcycle. This innovation is a gadget to invent a complete Tyre Rescue Kit that can help the motorcyclist to change the flat tyre themselves. This tyre rescue kit consist of a portable air pressure tyre pump generated by motorcycle exhaust system, tyre leveller, multipurpose spanner, rubber patch, tyre tube and tubeless tyre puncher. The objective of this innovation is to help the motorcycle rider especially the long distance rider who always need to travel using the highway. There are many benefits of the Tyre Rescue Kit. First and foremost, it helps in terms of saving time and energy. This Tyre Rescue Kit is portable and light with an easy step by step instruction to give guidance to the motorcyclist to change their tyre to be used by those who are 18 years old and above. The price will be reasonable and affordable. There will be two different innovation of Tyre Rescue Kit which can be used for the tubeless tyre type and the normal tube tyre type. As we mentioned earlier, the market for this product is focusing on the motorcyclist who love to travel long distance and also suitable for female motorcyclist as they now can repair their flat tyre easily.

R2R

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The world has evolved into a globalization and modernized world, people are still enjoying the pleasure of relaxing while reading their favourite book, novel or magazine. We can't deny that, printed media is still preferable and enjoyable to read. The problem now is that it is hard to read books at certain places as some place does not provide a convenient and comfortable stool. We have developed a product that can make book enthusiasts feel relaxed while reading their favourite book. The name of this product is r2r which means "relax to read". This product consists of book rack, and mini comforter. This product allows readers to lean and even lie down while reading their favourite book. The materials for this product are plywood, hinge, plank, nail, screw, and sponge paper. Which is why, it is surprisingly light. The r2r is durable as it is very sturdy. The portability of this product which makes it more unique as it can be carried everywhere. The future of this product is bright and we focus on attracting avid readers. Apart from that, the r2r can be used for something else as the book compartment can be replaced by something else depends on the item which are to be put there. But, the weight must not be more than four kilos, as it will be difficult for the carrier to lift the r2r. The r2r also can be used during fishing trips. The book compartment can be installed with fishing rods gears and while fishing, fishers can relax while waiting for the fishes to eat their bait. The usage of r2r depends on the user needs and their creativity in using the r2r. Nonetheless, the r2r proves to be an efficient product to satisfy the needs of today's societies. We believe that if a product proves to be useful for the society, the sales will be encouraging as the product is accepted by the market. The same concept goes to the r2r. The product is economical, portable, easy and light. It is pretty much what society needs in their daily lives for their activities.