









27th - 30th APRIL 2014 **UNIVERSITI TEKNOLOGI MARA MALAYSIA** Bridging the valley of death: advancing the commercialisation of research

RESEARCH BOOK



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RESEARCH INNOVATION BUSINESS UNIT

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FOREWORD

he 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 commercial is at ion of new technology designedand 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

Pro-Chancellor, Universiti Teknologi MARA

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UNIVERSAL DESIGN GUIDELINE FOR PUBLIC PARK RECREATIONAL FACILITIES

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In Malaysia, the disabled or orang kurang upaya (OKU) find it difficult to use recreation facilities in public parks due to lack of access and safety. The National Landscape Department and Universiti Teknologi MARA (UiTM) attempted to identify the accessibility for the disabled (OKU) visitors in public parks, to identify universal design criteria to meet the needs of the disabled in public parks and to provide universal design guidelines for public park recreational facilities. Universal design approach is to take into account with the specific needs and capabilities of users with unique needs as a solution of a complete design in public park environment that suitable and effective for all users, including the disabled, this universal design, need to meet the seven (7) basic principles and it must achieve an equal level of consumption; are flexible in terms of selection and the ability to use it; simple and easy to understand; providing information and informative; tolerance to danger or accident, the use of physical ability and the provision of a minimum size and user-friendly space. To establish the guidelines, as stated before, National Landscape Department collaborated with Universiti Teknologi MARA (UiTM) made an assessment of the disabled facilities in public parks. Several disabled associations and local authority were invited such as Persatuan Orang-orang Cacat Anggota Malaysia, Persatuan Orang Pekak Malaysia, Persatuan Bagi Orang Buta Malaysia and Persatuan Pengguna-penguna Standard Malaysia, Dewan Bandara Kuala Lumpur (DBKL), Majlis Bandaraya Petaling Jaya (MBPJ), Majlis Bandaraya Melaka Bersejarah (MBMB) and Jabatan Kebajikan Masyarakat (JKM). Series of workshops and consultation with these association and local authorities has been organized to get the input. The outcome of this research, a universal design guideline has been developed and published for use by local authorities for public benefit. In general, universal design in public park has been apply and acceptance by most of the countries in the world because to reduce the barrier and provide the facilities for the community. It gives the opportunity for the disabled to access the public park and participate in recreation activity. The application of universal design guideline in the development of public parks will give equal rights to all park users as a recreational area to socialize. Besides that this universal design handbook as a guide and reference to the parties involved in the planning and development of public parks. These guidelines have been published by National Landscape Department under Kementerian Perumahan dan Kerajaan Tempatan.