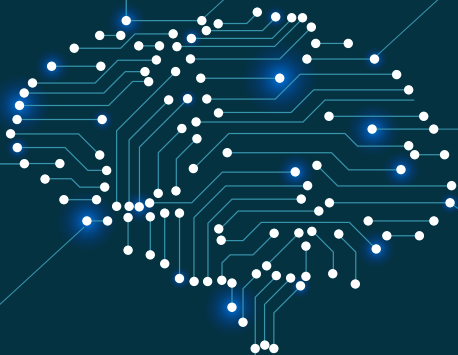


WIEF presents

GLOBAL
DISCOURSE
SERIES



ARTIFICIAL INTELLIGENCE



7TH WIEF GLOBAL DISCOURSE ARTIFICIAL INTELLIGENCE AND THE FUTURE

Monday, 15 May 2017
Kuala Lumpur Convention Centre

SYNOPSIS

Technologies have no doubt demonstrated the potential to transform and reshape how we live, whether or not this is good or not is another debate. The fundamental change happened in the 20th century with the introduction of electricity & internet, but in the 21st century the focus and concern is steering towards AI.

The original aim of AI development was to reduce manpower, increase productivity and automation function in various industries. Now AI is used in each and every company where machines are involved and it encompasses technologies like machine learning, deep learning, natural language processing (NLP), computer vision, machine reasoning and strong AI.

The rise of AI is something to watch out for in 2017. Its implementations are already apparent in Uber's use of driverless cars in Pittsburgh, USA in 2016, and Tesla's new models equipped with the hardware for full autonomy. Meanwhile, revenue growth of Artificial Intelligence has increased from USD150 billion in 2010 to USD250 billion in 2015 and its annual growth more than doubled from 20 to 55 percent. This clearly shows the significance of AI and the huge scope it offers for development in the future.

The 7th WIEF Global Discourse on **Artificial Intelligence** will showcase AI's role in bringing the massive shifts in how people perceive and interact with technology and machines. The Global Discourse will also provide an opportunity to discuss and exchange new ideas between academicians, researchers, professionals, industrialists and students.

ARTIFICIAL INTELLIGENCE

MONDAY, 15 MAY 2017

PROGRAMME

- 9.30am Arrival of Guests & Registration
- 10.00am Welcoming Remarks by
Tan Sri Dato' Dr Wan Mohd Zahid Mohd Noordin,
Chairman, WIEF Education Trust

10.15am **ARTIFICIAL INTELLIGENCE AND THE FUTURE**

Panel Speakers:

Professor Zyed Zalila

President & CEO, R&D Director, Intellitech & Professor of
Fuzzy Mathematics and Artificial Intelligence, UTC Sorbonne University,
France

Professor Nadia Magnenat Thalmann

Director, Institute for Media Innovation, School of Computer Science &
Engineering, College of Engineering, Nanyang Technological University,
Singapore

Professor Dr Ir A Nijholt

Computer Scientist, Twente University, The Netherlands & Global
Research Fellow, Imagineering Institute, Iskandar, Johor, Malaysia

Moderator:

Karamjit Singh

Founder & Chief Executive Officer, Digital News Asia, Malaysia

- 12.30pm Question & Answer Session
- 1.00`pm Lunch & Informal Networking
Venue: Conference Hall 2, Level 3,
Kuala Lumpur Convention Centre
- End of Global Discourse



Tan Sri Dato' Dr Wan Mohd Zahid Mohd Noordin

Chairman,
WIEF Education Trust

Tan Sri Dato' Dr Wan Mohd Zahid Mohd Noordin is an educationist by training and profession. He began his career as a teacher and subsequently rose to the rank of Education Manager within the Ministry of Education. His last position was as Director General of Education of Malaysia. Tan Sri Dato' Dr Wan Mohd Zahid is presently Chairman of Yayasan SP Setia, Management and Science University (MSU), Higher Education Leadership Academy (AKEPT) and Universiti Pendidikan Sultan Idris (UPSI).

He is also a Director of Perbadanan Usahawan Nasional Berhad. He was formerly the Chairman of Berger International Ltd based in Singapore and Deputy Chairman of International Bank Malaysia Berhad.

He is a board member of the Securities Industry Development Corporation (SIDC), the training and development arm of the Securities Commission, Malaysia (SC).

Tan Sri Dato' Dr Wan Mohd Zahid holds a Bachelor of Arts (Honours) degree from University of Malaya, Masters from Stanford University and a PhD from University of California, Berkeley. He underwent a course in business management under the Advanced Management Programme at Harvard Business School.

He is the Chairman of WIEF Education Trust, WIEF Board of Trustee and Member of the WIEF International Advisory Panel (IAP).



Professor Zyed Zalila

President & CEO,
R&D Director, Intellitech & Professor of Fuzzy
Mathematics and Artificial Intelligence,
UTC Sorbonne University, France

A professor of fuzzy mathematics and artificial intelligence at the Sorbonne University, **Dr Zyed Zalila** holds a Diplôme d'Ingénieur (MSc) in Artificial Intelligence and Applied Mathematics, as well as a PhD in fuzzy mathematics from Université de Technologie de Compiègne (UTC). Under the co-supervision of Professor Arnold Kaufman who was one of the pioneers of fuzzy logic, Professor Zalila began his research on fuzzy theory in 1989.

After close to three decades, his research have laid the groundwork for many designs of operational decision-making systems adaptive to user-environment such as fuzzy Advanced Driver Assistance Systems (ADAS) used for the first Renault autonomous vehicle produced in the late twentieth century and the first operational self-parking system worldwide.

Founder of Intellitech, which he started before the turn of the century, this private company specialises in designing intelligent systems and decision software that incorporate the latest breakthroughs in artificial intelligence. Professor Zalila has consistently built a high-level UTC-graduates team of senior research engineers who specialises in fuzzy theory as well as machine learning and since 1993, teach fuzzy theory and its applications.

'If an intelligent robot is the inventor of a major discovery, who'll be the author:
the robot itself, its designer or its operator?'



Professor Nadia Magnenat Thalmann

Director, Institute for Media Innovation,
School of Computer Science and Engineering,
Nanyang Technological University,
Singapore

Professor Nadia Magnenat Thalmann is a multiple award-winning computer graphics scientist and among the recent awards she received are the Humboldt Research Award in Germany and Career Achievement Award from the Canadian Human Computer Communications Society in Toronto in 2012.

A member of the Swiss Academy of Engineering Sciences, she is also Director of the Institute for Media Innovation, Nanyang Technological University, Singapore and Founder and Director of MIRALab, which is an interdisciplinary lab in Human Computer Animation at the University of Geneva, Switzerland. Her fields of research are specifically on social robots, mixed realities and medical simulation.

She is Editor-in-Chief of The Visual Computer Journal, Co-Editor-in-Chief of Computer Animation and Virtual Worlds and Associate Editor of many other scientific journals. Along with her PhD students, Professor Nadia has published over 500 papers and books on virtual humans and social robots.

She developed the robot Nadine in Singapore, like herself, Nadine is able to speak, recognise people as well as gestures, express not just moods but also emotions and remember actions. When asked why had she created Nadine, Professor Nadia replied it is because, 'I am quite interested to model humans and understand their behaviour and show a result on virtual humans or social robots.'

'There will be hardly a new method developed without using the AI algorithms and deep learning.'



Professor Dr Ir A Nijholt

Computer Scientist,
Twente University, The Netherlands &
Global Research Fellow, Imagineering Institute,
Iskandar, Johor, Malaysia

Professor Anton Nijholt's main research interests focus on entertainment computing, affect, humour and brain-computer interfacing. He has written and edited various books and his recent ones are on playful interfaces, social collective intelligence, brain-computer interaction and 'playable cities'.

He acted as Programme Chair and General Chair of the main large international conferences on entertainment computing, multimodal interaction, affective computing, faces and gestures, virtual agents, computational humour and computer animation. Professor Nijholt's recent keynote talks have been on humour engineering in smart environments, the future of brain-computer interaction and smart material interfaces.

He is not only the Chief Editor of the specialty section Human-Media Interaction of *Frontiers in Psychology*, *Frontiers in Digital Humanities*, and *Frontiers in ICT*, but also the Co-Editor of Springer Series *Gaming Media and Social Effects*. A Global Research Fellow at the Imagineering Institute in Johor Bahru, Professor Nijholt continues his investigations in playful and urban interfaces in smart cities.

Originally from Holland where he received his PhD in computer science from the Vrije Universiteit in Amsterdam.

'Do we really agree with the decisions that are made for us?
People need to be aware of shortcomings of AI.'



Karamjit Singh

Founder and Chief Executive Officer,
Digital News Asia,
Malaysia

Karamjit Singh is the Founder and CEO of Digital News Asia. He began his career in 1995 at *The Edge*, Malaysia's premier business publication, and covered a number of areas before joining the telecommunications sector.

With the increasing convergence of computer and telecommunication technologies as well as the Multimedia Super Corridor's continued expansion in 2000, he was transferred to the weekly's new pullout *netv@lue2.0*. He was later appointed editor of the pullout as well as a bi-monthly pullout, *SMEs Going Global*.

He was the recipient of the Malaysian Press Institute award for Best Telecommunications Writer in 2002, DiGi Telecommunications Journalist of the Year in 2004 and in 2009 from the Malaysian Customer Relationship Management and Contact Centre Association as Journalist of the Year in recognition of his informative and critical coverage of the outsourcing sector since 2000.

Over the course of his career, Karamjit has been regarded as one of Malaysia's respected journalists and a technology expert.

13TH

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WORLD ISLAMIC ECONOMICFORUM FOUNDATION

The World Islamic Economic Forum (WIEF) Foundation, formally established on 6 March 2006, institutionalised the World Islamic Economic Forum. Being the proprietary owner of the Forum, the Foundation administers and organises the annual WIEF, as well as ensuring the smooth-running of programmes and activities. WIEF Foundation has its own organisational structure, which includes the Board of Trustees led by the Chairman of the Foundation, and an advisory body called the International Advisory Panel. Its Permanent Secretariat is based in Kuala Lumpur.



THE WIEF EDUCATION TRUST (WET)

The WIEF Education Trust (WET) was launched during the 2nd WIEF in Islamabad, Pakistan in 2006. WET was established on the premise that education is the most important pillar in every society and that the fate and future of a community lies in the quality and availability of education for its people. WET is aimed at garnering support and resources from the Muslim World to provide education opportunities to the people at large.

Since then, WET has carried out the unique WIEF-UiTM Global Discourse Series that addresses topical issues relating to business and economics, as well as scientific and technological advancement crucial to the development in the Muslim World. This programme has gained increasing popularity with the public and private sectors as well as the academia, and has also attracted local and international award winners and high caliber speakers to the discourse.

Recent additions to the initiative include WIEF Social Entrepreneurship Challenge (WSEC) - a 3-phase challenge that trains students to present their business ideas to empower underprivileged communities and WIEF Young Graduates Entrepreneurship Course - hands-on training to help students and graduates venture into business and entrepreneurship industries.

1st GLOBAL DISCOURSE

25 NOVEMBER 2009

“GLOBAL ECONOMIC & BUSINESS SCENARIO: MUSLIM COUNTRIES AS THE NEW EMERGING ECONOMIES”

The inaugural WIEF-UiTM Global Discourse entitled, “Global Economic & Business Scenario: Muslim Countries as the New Emerging Economies” was held on 25 November 2009 at the WIEF-UiTM International Centre, Shah Alam, Malaysia. It was attended by approximately 120 participants comprising faculty members as well as local and foreign students. The Discourse was officiated by the Hon. Dato’ Seri Mohamed Khaled Nordin, Minister of Higher Education of Malaysia. It was addressed by **Datuk Seri Andrew Sheng** of Sime Darby Bhd, **Prof. Mahendhiran Nair** of Monash University and **Mr Mumtaz Khan** of Middle East & Asia Capital Partners Pte Ltd. Dato’ Dr Norraesah Mohamad of MyEG Bhd was the moderator.

The Discourse focused on the shift in the global economy’s centre of gravity, moving eastwards from the western northern hemisphere where it used to be for many decades. The panellists also discussed the significant rise in the global Islamic finance and halal business as well as the rise of many Muslim nations and communities to form part of the new emerging market and some 900 million new middle class consumers in the world.



2nd GLOBAL DISCOURSE

8 OCTOBER 2010

“CHURNING OUT INNOVATION AND ENTREPRENEURSHIP IN MALAYSIA”

The 2nd WIEF-UiTM Global Discourse entitled, “Churning Out Innovation and Entrepreneurship in Malaysia” was held on 8 October 2010 at the Intekma Resort and Convention Centre, Shah Alam. It was attended by approximately 100 participants comprising faculty members, students and representatives of the corporate sector. A keynote address was delivered by Professor William Miller of Stanford University whilst the commentators comprised of both local and foreign experts.

Mr Ian Buchanan, Senior Executive Advisor, Booz & Company, Australia, moderated the impressive line-up of commentators comprising **Tengku Farith Rithauddeen**, Group CEO and Co-Founder, Skali Sdn Bhd.; **Dr V. Sivapalan**, Advisor, Technopreneurs Association of Malaysia (TeAM) and Managing Principal of Ventura Partners Sdn Bhd.; **Mr Ashran Dato' Ghazi**, President, Malaysian Association of Bumiputra ICT Industry and Entrepreneurs (NEF); and **Associate Professor Rohazar Wati Zuallocbelely**, Former Deputy Director General, Intellectual Property Corporation of Malaysia and Associate Professor, Faculty of Law, MARA University of Technology (UiTM).

The 2nd WIEF-UiTM Global Discourse marked another important achievement in discussing the climate of innovation and entrepreneurship in Malaysia, the availability of venture capital and other relevant issues for the successful commercialisation of research projects.



3rd GLOBAL DISCOURSE

23 MARCH 2011

"SOCIAL ENTREPRENEURS: AGENTS OF CHANGE"

The 3rd WIEF-UiTM Global Discourse entitled, "Social Entrepreneurs: Agents of Change" was held on 23 March 2011 at the Sime Darby Convention Centre, Kuala Lumpur. It was officiated by Tan Sri Dato' Dr Wan Zahid bin Mohd Noordin, the Chairmain of both UiTM and the WIEF Education Trust (WET).

The event saw the participation of several local and international award winners in social entrepreneurship - **Dato' Zaliha bt Omar**, Advisor on Welfare & Community Development, Ministry of Women, Family and Community Development, Malaysia; **Ms Julia Chong**, Chief Executive Officer, The Truly Loving Company Sdn Bhd; **Mr Raj Ridvan Singh**, International Director & Co-Founder, SOLS24/7; **Ms Gemma Bulos, Director**, Global Women's Water Initiative, Africa and Founder, A Single Drop for Safe Water, Philippines; and **Mr Shahrul Azlan bin Mohd Zulkifli**, General Manager (Investment), Perbadanan Nasional Berhad.

The Global Discourse, attended by more than 200 participants consisting of academics, entrepreneurs, NGOs, professionals, student and media, brought forth an interesting discussion on the current landscape of the social entrepreneurship ecosystem. Speakers shared their unique experiences and inspiring stories on how they strive to create a workable business model for their social aspirations. The discussion, followed by an interactive Q&A, also highlighted the ways in which we can encourage the culture of social responsibility in people, irrespective of their work nature and how these sentiment scan be galvanised and brought together in a workable ecosystem that supports social entrepreneurship.



4th GLOBAL DISCOURSE

14 OCTOBER 2011

“NANOTECHNOLOGY”

The 4th WIEF-UiTM Global Discourse on Nanotechnology was held on 14 October 2011 at the Kuala Lumpur Convention Centre. It was opened by the Hon. Tun Musa Hitam, Chairman of the WIEF Foundation.

The Statistical, Economic and Social Research & Training Centre for Islamic Countries (SESRIC), an organ of the OIC, supported the programme. Its Director General, Dr Savas Alpay delivered the Special Address on “Current Stance of Science and Technology in the OIC Member Countries”.

In addition, Dr Mehmet Bayindir, Deputy Director of the National Nanotechnology Research Centre of Turkey delivered the keynote address entitled, “Nanotechnology: Engineering a Better Future”.

Additional international perspectives to the discussion was provided by four leading nanotechnology experts. They were:

- **Professor Ille C Gebeshuber**, Institute of Microengineering and Nanoelectronics, Universiti Kebangsaan Malaysia & Vienna University of Technology, Austria
- **Professor Jackie Y. Ying**, Executive Director, Institute of Bioengineering and Nanotechnology, Singapore
- **Professor Sirirung Songsivilai**, Executive Director, National Nanotechnology Center, Thailand
- **Associate Professor Dr Mohamad Rusop**, Head, NANO-SciTech Centre (NST), Institute of Science, MARA University of Technology (UiTM)

The moderator was Dr Gunawan Witjaksono, Director, Photonics, Micro Energy & Green Technology, MIMOS Berhad, Malaysia. The Discourse received overwhelming response. A total of 150 participants attended the Discourse, comprising of representatives from academia, corporate sector and the media. The programme was also broadcast via live streaming to the four universities, namely MARA University of Technology (UiTM), International Islamic University of Malaysia (IIUM), Malaysian Multimedia University (MMU) and Universiti Teknologi Malaysia (UTM), allowing more students and faculties to benefit from the Discourse.



5th GLOBAL DISCOURSE

30 APRIL 2014

"ZERO WASTE"

The 5th WIEF-UiTM Global Discourse on zero waste was held on 30 April 2014 at Intercontinental Hotel in Kuala Lumpur. It was opened by the Tan Sri Dr Wan Mohd Zahid bin Mohd Noordin, Chairman, WIEF Education Trust (WET) & Chairman, UiTM, who also moderated the discussion. A special address entitled "Islamic Perspective on Zero Waste" was delivered by Datuk Nik Mustapha bin Nik Hassan, Director General, Institute of Islamic Understanding Malaysia (IKIM). In addition, Dr Pieter A.M. Claassen, Senior Scientist, Wageningen UR Food & Biobased Research from the Netherlands delivered a keynote address titled "How can hydrogen contribute to a zero waste society?".

The panel members comprised of various international experts in the field of zero waste. They were:

- **Professor Dr Nik Meriam Nik Sulaiman**, Dean, Research Cluster on Sustainability & Environment, University of Malaya, Malaysia
- **Associate Professor Ng How Yong**, Department of Civil and Environmental Engineering, National University of Singapore
- **Dr Ing Ir Prayatni Soewondo**, Professor, Department of Environmental Engineering, Bandung Institute of Technology, Indonesia
- **Mr Kevin Low**, Chief Executive Officer, Small Projects Architecture & Winner, Global Award for Sustainable Architecture 2013, Malaysia

The Discourse was attended by around 100 participants comprising representatives from academia, corporate sector and the media. The discussion highlighted key topics on the management of zero waste and the interdisciplinary nature of the researches and the cutting edge R&D in this field. It also examined other aspects of waste management, the opportunities and potential in the management of zero waste and its impact on environment and society as well as future development in this important field.



6th GLOBAL DISCOURSE

25 FEBRUARY 2015

“REGENERATIVE MEDICINE”

The 6th WIEF-UiTM Global Discourse on Regenerative Medicine was held on 25 February 2015 at Hotel Istana, Kuala Lumpur. The panel discussed, debated and deliberated on the importance and potential of regenerative medicine to the future of healthcare industry, success factors to stakeholders' participation in the industry and opportunities in these transformative technologies.

Leading the academia-industrial discourse is, Professor Dr Yoshiki Sawa, Professor and Chief, Department of Cardiovascular Surgery, Osaka University Graduate School of Medicine, Japan, who made a special presentation on his successful clinical trials on cardiac treatment using myocardial regeneration therapy and stem cell transplantation.

Other experts who took part in the Global Discourse were:

- **Professor Christopher O'Neill**
Head, Centre for Developmental and Regenerative Medicine,
Kolling Institute of Medical Research, University of Sydney,
Commonwealth of Australia
- **Professor Dr Salim Aziz**
Professor, Clinical, Cardiovascular Surgery,
George Washington University, Washington DC, United States of America
- **Professor Dr Nafeeza Mohd Ismail**
Dean, Faculty of Medicine, MARA University of Technology (UiTM), Malaysia
- **Professor Tan Sri Dato' Seri Dr Haji Mohd Ismail bin Merican**
Pro-Chancellor and Chairman, MAHSA University & Consultant Physician &
Hepatologist, Prince Court Medical Centre, Malaysia

The Discourse was attended by 150 participants comprising students, faculty members, researchers, scientists and professionals from the medical industry. The discussion mainly focuses on the latest development in regenerative medicine worldwide as well as possible collaborations between the institutions represented at the Global Dialogue.



WORLD ISLAMIC ECONOMIC FORUM FOUNDATION

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