

Professor Dr. Noorhana Yahya

Noorhana Yahaya is a Professor at Fundamental and Applied Science Department of Universiti Teknologi PETRONAS. She has served more than a decade in UTP and also has been promoted as Professor for her excellent works in Physics and Nanotechnology. Professor Dr. Noorhana was born at Tanjung Malim, Perak. She has two children from her marriage with Mr. Sazali Yusof.

For the past 15 years of working experience as a researcher in the field of Physics, Professor Noorhana has successfully completed 10 research projects which accounts about RM 70 million. One of the most significant impact of her research is the breakthrough in fertilizer research which entitled 'Next Generation Green and Economical Urea' via the Long Term Research Fund provided by Ministry of Higher Education (MOHE). This project was developed due to the concern and need of Green Technology to synthesis urea fertilizer. This is one of the hugest grant under MOHE obtained by UTP and were completed with great success through collaboration with Universiti Putra Malaysia (UPM), Universiti Sains Malaysia (USM) and Universiti Teknikal Malaysia (UTeM).

Her collaboration with PETRONAS Carigali Sdn Bhd (PCSB) is very extraordinary. A grant worth of RM 11.4 million (2011) and RM 42.3 millionb (2016) was obtained together with a group of researcher to start the initiative of enhanced oil recovery by using nanotechnology and electromagnetics. Her vast experience in electromagnetics was gained during her collaboration with Electromagnetic Geoservice (EMGS) a Norwegian company together with PCSB. She gained her success by inventing the EM transmitter which work in deep sea which lead to her gold award in one of the Science and Technology competition in Brussel.

Lately, the research on 'Green Urea' has grabbed the national and international interest. Early this year, 2017; Prof Noorhana grabbed the 'Best Inventor Award' by the International Federation Inventor Association (IFIA) through International Technology Exhibition (ITEX) which was held in Kuala Lumpur. This award is a recognition for her remarkable creativeness and innovation in fertilizer research and is considered as the most prestigious award throughout her career as an academician and researcher. Moreover, the Green Urea project also bag gold medals from Nuremberg, Germany as the 'Best Green Invention' under iENA the International Trade Fair Ideas-Inventions-New products and three more from national level research competitions. In order to carry forward 'Green Urea' project to the next level, strategic commercialization and integration with Internet of Things (IoT) elements are actively being conducted with the collaboration from Perbadanan Ekonomi Islam Negeri Perak (PKEIP). Successful implementation of IoT technology would enable to revolutionize Malaysian agriculture industry to be in line with our National 2050 Transformation Programme.

Professor Noorhana has published about 240 journals in the scope of national and international journals. She has great passion in music, and able to play musical instruments such as piano and guitar. She has also organized various programs and the recent one is 'Executive Leadership Program' with the collaboration with University of Cambridge, UK to enhance leadership qualities among university management committee and academicians. Besides that, she has been invited to officiate and appointed as key note speaker for national and international conferences such as in Paris, London, Algarve and Barcelona.

Professor Noorhana is awarded “Pingat Darjah Paduka Cura Si Manja Kini (P.C.M)” in conjunction to His Majesty of Sultan of Perak’s 61st Birthday Celebration for the tremendous effort and an exceptional success in education. In a current timeframe, she is actively involved in National STEM Movement and ASEAN STEM Movement to cultivate the scientific culture among the younger generation. Recently, she has steered state level STEM carnival held at SMK Raja Shariman, Beruas and SMK Jati, Ipoh. Her idea on science and mathematics based contest such as drone competition and mathematics quizzes gave a positive exposure to the students on the field of science, technology, and engineering. Adding to these, she has actively started the initiatives to instil the importance of embracing industry 4.0 and its associated skills to the young generations. In order to move forward with STEM, she has also joined the ASIA Pacific STEM Roundtable Committee Organization. In the current time frame, she is associated with the Schools of Professors (Majlis Professor Negara) under the program called ‘Program Bersama Masyarakat’ to involve outreach programs that could give impact to the society.



THE WORLD EXHIBITION ON INVENTIONS,
RESEARCH & NEW TECHNOLOGIES 2015
EUREKA INNOVA COMPETITION IN BRUSSEL,
BELGIUM
GOLD MEDAL



INTERNATIONAL TRADE FAIR "IDEA-
INVENTIONS-NEW PRODUCTS" (IENA)
EXHIBITION 2010
NUREMBERG, GERMANY
GOLD AWARD



SIRIM INVENTION, INNOVATION &
TECHNOLOGY EXPO 2017 Si2te
AMREC COMPLEX, SIRIM BERHAD, KULIM H-
TECH PARK
**GOLD MEDAL AWARD (Si2te GREEN
INVENTION AWARD)**



28TH INTERNATIONAL INVENTION,
INNOVATION & EXHIBITION (ITEX 2017)
KUALA LUMPUR CONVENTION CENTRE
GOLD MEDAL



INTERNATIONAL CONFERENCE AND
EXPOSITION ON INVENTIONS BY INSTITUTIONS
OF HIGHER LEARNING (PECIPTA) 2017



28TH INTERNATIONAL INVENTION,
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KUALA LUMPUR CONVENTION CENTRE