



**WORLD
ENVIRONMENT
DAY**



World Environment Day Events – WED 2016

National Seminar on Sustainable Environment and Health

22 September, 2016

AIMST University, Jalan Bedong - Semeling, 08100, Bedong,
Kedah Darul Aman, Malaysia.

Globally, overexploitation of earth's natural resources by human is a serious issue. Burgeoning population growth and economic development with high exploitation of natural resources in various countries continuously damages our planet's environment. To address growing environmental challenges, a new development archetype is imperative that will protect the natural resources and future generations. Sustainable environment is a key theory that provides an answer to the question, how human beings can coexist harmoniously with the earth and with nature. In conjunction with World Environment Day (WED) 2016, AIMST University is proud to host and organize one day National Seminar on 'Sustainable Environment and Health' to address the issues and challenges of sustainable environment in the era of fast changing environment. This seminar is focused to create awareness among the school and university students to maintain the better environment and health.

The seminar includes awareness talks by eminent scholars and environmentalists from Malaysia and will focus on the global environmental issues and impacts on human health and environment conservation strategies.

Seminar Themes

- ❖ Global Change and Impacts of Pollution
- ❖ Environment and Human Health
- ❖ Conservation of Natural Resources
- ❖ Sustainable Agriculture and Organic Farming - Green Technology
- ❖ Exploration of Biofuels and Alternate Energy Sources
- ❖ Legal Environmental Regulations

Tentative Programme

8.00 am – 9.00 am	Registration
9.00 am – 9.30 am	Opening Ceremony
9.30 am – 12.30 pm	Invited Talks
12.30 pm – 2.00 pm	Lunch
2.00 pm – 4.30 pm	Invited Talks
4.30 pm – 5.00 pm	Prize Distribution and Closing Ceremony

Contact Information

Chairman

Sr. Assoc. Prof. Dr. Kasi Marimuthu

Co-chairpersons

Mr. Christopher Parayil Varghese
Dr. Gokul Shankar
Mr. Arunagiri

Secretariat

Dr. Shalini Sivadasan
Dr. Rohini Karunakaran
Ms. Elil Suthamathi

AIMST University

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Invited Speakers

S. No.	Speaker	Title
1.	Prof. Dr. Sultan Ahmad Ismail Director, Ecoscience Research Foundation, Chennai 600041, Tamilnadu, India. sultanismail@gmail.com	For Earth's sake
2.	Dr. Fadzil bin Abd Kadir, AMK., BCK Secretary, Sungai Petani Municipal Council, Kompleks MPSPK, Jalan Patani, 08000 Sugai Petani, Kedah, Malaysia. norriza@mpspsk.gov.my	Natural Resources and Conservation
3.	Prof. Dr. P. K. Rajesh Faculty of Medicine, AIMST University, Kedah, Malaysia. rajesh.perumbilavil@gmail.com	Reduce wastage, Reuse, Recycle
4.	Prof. Dr. Sudesh Kumar School of Biological Sciences, University Science Malaysia, Penang, Malaysia. ksudesh@usm.my	Biodegradable Plastics For A Sustainable Environment
5.	Dr. P. Arulselvan Research Fellow, Institute of Bioscience, Universiti Putra Malaysia, Serdang 43400, Selangor, Malaysia. arulbio@gmail.com , arulselvan@upm.edu.my	Environmental pollution and its biological impacts
6.	Dr. Suresh Kumar Department of Medical Microbiology and Parasitology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Selangor, Malaysia. sureshkudsc@gmail.com , suresh@upm.edu.my	Impact of environmental alteration and human infectious diseases
7.	Dr. Haslinda Binti Mohd Anuar LL.B Programme Coordinator, School of Law, College of Law, Government & International Studies (COLGIS), Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia. haslinda@uum.edu.my	Environmental Law in Malaysia: A Protection to Public Health?
8.	Prof. Dr. Kannan Narayanan Founder and President, Tamil Heritage foundation, Taman Sei Serdang 43300, Seri Kenbangan, Selangor, Malaysia. drnkannan@yahoo.com	Molecular Marker Techniques in Environmental Forensic Studies
9.	Mr. N V Subbarow Senior Education and Natural Farming coordinator officer, Consumers Association of Penang(CAP), Penang, Malaysia. subbarow@gmail.com	Natural farming in Malaysia
10.	Prof. Quamrul Hasan Professor of Technology Management & Director of Knowledge Science Research Centre, School of Technology Management and Logistics (STML), College of Business (COB), Universiti Utara Malaysia (UUM), 06010 UUM Sintok, Kedah, Malaysia. quamrulhasan@gmail.com , quamrul@uum.edu.my	Sustainable Agriculture And Organic Farming: A Case Study On A Paddy Farm In Kedah, Malaysia
11.	Dr. Md. Aminur Rahman Senior Research Fellow, Laboratory of Marine Biotechnology, Institute of Bioscience (IBS), Universiti Putra Malaysia (UPM), 43400 UPM Serdang, Selangor, Malaysia. aminur1963@gmail.com	Integrated Rice-Fish Farming: A New Avenue for Sustainable Agricultural Production in a Ecofriendly Environment
12.	Mr. Don Theseira Green Crusaders Bukit Mertajam, Penang, Malaysia. datoje@gmail.com	Recycling of household wastes (Resources) for cleaner environment

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Biographies



Dr. Sultan Ahmed Ismail, M.Sc., M.Phil., Ph.D., D.Sc., (9.10.1951) is Managing Director of the Ecoscience Research Foundation, a not-for profit organization, in Chennai. He was the Head of Zoology and later the Department of Biotechnology, The New College, Chennai. Has done extensive work (both research and applied) on ecology and environment, earthworms and organic inputs since 1978. He has been associated with several farmers and self-help groups promoting the concepts of ecology, sustainability, organic concepts, waste management, waste water treatment, etc. He was awarded the CASTME award for 1994-95 in the UK, the Arignar Anna Award by the Department of Environment of the Government of Tamil Nadu for 2005, and the award of Excellence presented by His Excellency Governor of Jharkhand in Dec 2010. Classified as one among the "TOP 10" people of Tamil Nadu for 2013 by Anantha Vikathan. He has travelled widely in India and abroad, with rich expertise in environmental issues. His book "The Earthworm Book" is popular among both academics and others interested in earthworms. He also authored "simple tasks great concepts" which is a boon to science teachers and students. It consists of 100 life science experiments which any child can perform without a laboratory. His earthworm book has been translated in Tamil as well as in Chinese. He has published more than 75 papers in National and International Journals, guided 32 M.Phil students and 17 Ph.D. students. More info about his work can be had from www.erfindia.org or just google his name.

Dr. Fadzil Bin Abdul Kadir, AMK., BCK will enlighten us with his talk on 'Natural Resources and Conservation'. He holds a doctorate in local government studies. He started his career in the Kedah state government service as a Kedah civil service officer (KCS) and has worked as a district land administrator, director of water services board and state chief auditor. Presently, Dr. Fadzil is the secretary of Sungai Petani municipal council.



Prof. Dr. Kannan Narayanan is essentially an Interdisciplinary person with background in biology and chemistry with a specific focus on environmental problems. He has done basic toxicology on pesticides on house hold pests in his B.Sc. & M.Sc (1970-75) and got into Environmental Analytical Chemistry during his PhD work in India (1976-85) where he studied the chemodynamics of pesticides in semi-tropical climate. Thus he acquainted himself with gas chromatographic techniques and has developed multiple residue methodologies for pesticides in agricultural produce. The work he developed in India fetched him a Monbukagakusho fellowship in Japan (1985-89) where he continued his environmental studies on industrial trace chemicals such as PCBs, Dioxins etc. He went from local to global studies involving migratory whales and birds to establish global distribution of anthropogenic pollutants. He was largely responsible for the scientific awareness on dioxin-like PCBs in humans and other biota. He also got an opportunity to observe and implement in-vitro cellular bioassays for the impact assessment of toxic pollutants in biota, marine sediments, water and terrestrial samples. His studies on co-planar PCBs took him to Germany where he worked for more than 10 years at GEOMAR Helmholtz-Zentrum für Ozeanforschung, Kiel (1989-2002). There he refined his knowledge on utilizing non-radioactive, anthropogenic chemical signatures in understanding biogeochemistry of ocean processes such as sedimentation, ocean circulation etc. He continued this research later in Korea (2003-2011) with a more regional focus, such as in the Yellow sea, South and East seas. Korea offered him an opportunity to develop his skills on outreach activities and capacity building for developing nations. He was the program director for APEC Marine Environmental Training and Educational Center (AMETEC) at KIOST, Korea. This international training and teaching experience gave him the power to be adaptive and innovative in his research at UPM, Malaysia (2013-16). With essential teaching load on environmental courses he utilized Final Year Project (FYP scheme) to work on environmental problems in Malaysia. He developed simple semi-permeable membrane devices to monitor air pollution. With minimum equipment and measurement techniques like GCMS, HS GC-FID, AAS his team measured toxic chemicals in waste motor engine oil, atmosphere and marine sediments. They utilized marine micro debris such as plastic pellets to understand marine pollution in Malaysia. He is also involved in improving Gas Purge Micro extraction techniques with Yanbian University China and Università di Foggia, Italy on Green Chemistry for a sustainable world. Thus his academic interests include the transport and fate of industrial contaminants and hormone disruptors in the environment. This includes, aspects of intermediate transport, pollution modelling, degradation processes, human exposure pathways, bio-geochemistry of POPs and their use as unconventional chemical tracers in understanding Ocean Processes. He loves teaching and mentoring and he has taught students at tertiary level and guided students for their Master/M.Phil/PhD courses. He has a strong track record on publication and his current H index is 31. He has working relationship with Institutions in China, Korea, Japan, Europe and USA which could be utilized for the benefit of a hosting Institution.

Prof. Dr. Quamrul Hasan has a Ph.D. in Biotechnology from Kyoto University, Japan. Prior to joining at Universiti Utara Malaysia (UUM) as a full professor in August 2014 he was managing his own firm-Bioinnovare Co., Ltd., an international business development consulting company, based in Kobe, Japan which he founded in 2009. Prior to that he was a Professor at Japan Advanced Institute of Science and Technology (JAIST), a national postgraduate university, in Ishikawa, Japan (1997-2005). He also worked for Procter & Gamble Company, as an R&D Scientist and Manager (1994-2001). Prof. Dr. Quamrul Hasan established a non-profit organization - Japan Halal Research Institute (JAHARI) in Hyogo, Japan in 2014 and he became the founder Chairman of this organization. A Japanese national, he had been living in Kobe, Japan with his family since 1994.



Some of the key achievements of Prof. Dr. Quamrul Hasan are:

- Professional biotechnologist with more than twenty five years of experiences in research and management (in Japan and USA)
- Extensively experienced in both the Western and Japanese (multi-cultural) business settings.
- Invented, co-developed and successfully launched a health-care consumer product, from original idea and laboratory test to prototyping and field-testing (Febreze- Allergen Reducer has been globally marketed by Procter & Gamble since 2004)
- Recipient of Procter & Gamble Innovation Award
- Published more than 50 patents and articles.

At UUM, currently Prof. Quamrul Hasan is also the Director of an international research center collaborating with the universities and companies in Japan, which were initiated by him.



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Prof. Dr. Sudesh Kumar's main research interest is in the design and synthesis of biodegradable polyhydroxyalkanoates (PHAs) using microbial systems. He started research in this area in 1992 and obtained his Masters in Biotechnology from University Malaya. Then, he continued his research for his PhD, which was sponsored by Japanese Government (Monbusho). The research was conducted at RIKEN Institute, Japan under the supervision of Prof. Y. Doi. He obtained his PhD in 1999 and then continued as a Special Postdoctoral Researcher at RIKEN. He returned to Malaysia under the Brain Gain program and joined the School of Biological Sciences, Universiti Sains Malaysia as a lecturer in 2001 and became a full professor in 2011. He has significantly contributed to the research and development of biodegradable plastics in Malaysia from palm oil products. In addition to the numerous scientific publications in both local and international journals, he has 6 granted patents, two of which has been successfully licensed.

Prof. Dr. P. K. Rajesh has held academic positions at Chennai, India and at Kedah, Malaysia. He joined AIMST University in Malaysia in March 2005, where he is currently holding the posts of Head of the Unit of Microbiology and Medical Education. He was the former Deputy Dean of Preclinical studies and the former Dean of faculty of Medicine at AIMST University. Dr. Rajesh is a Fellow of the Academy of Clinical Microbiology, Life member of the Malaysian society of microbiologists, and also a life member of the college of chest physicians, New Delhi. He has authored 18 publications in peer reviewed indexed journals on various fields of clinical microbiology and medical education. Dr Rajesh has presented papers on many international platforms. In March 2011 Dr. Rajesh received the bioinnovation medal from Malaysian biotechnology society for his work on bacteriophage therapy. He is passionate about youth empowerment and leadership and has pioneered the world first preclinical quiz which was held at AIMST in 2011. He is also advisor to the RED committee a charity organization working in AID of the less privileged patients. He organized district 3310 RYLA 2013/2014 and was invited to be an inspiration coach at the international RYLA in Sydney in May 2014. He was the president of the Rotary Club of Bandar Sungai Petani 2015-16 and is in charge of new generations 2016-17. A winner of the Rotary International's 5 avenues of citation award in 2014. Dr Rajesh was involved in international community service with regards to water and sanitation in India and Bangladesh in 2013-15. Dr Rajesh is a life member of the World Wildlife Fund and is an active supporter of the preservation of forests.



Mr N V Subbarow has been serving with Consumers Association of Penang for the past 40 years. He has been actively involved in organising many Health campaigns in CAP namely Anti Smoking, Anti Alcohol and Anti Pesticides Campaigns. At present he is the Coordinator for the CAP's Sustainable Agriculture Project. He has been advocating for Chemical Free farming and is working closely with farmers, teachers, government officials, housewives, students of primary, secondary and higher learning institutions. He is also engaged in developing urban garden techniques for urban dwellers.

Dr. Palanisamy Arulselvan received his Doctorate in the field of Biochemistry from the University of Madras, India and he was trained as a post-doctoral researcher at Academia Sinica, Taiwan. Currently, he is continuing his scientific research career as a Research Fellow at Institute of Bioscience, Universiti Putra Malaysia, Malaysia. He has published over 65 papers in internationally reputed journals, refereed proceedings and book chapter. His current research focuses on natural products based drug discovery; nano-drug delivery system and role of inflammatory signalling targets in diabetic wound healing. He has won many national and international level scientific awards from different organization. He is serving as Associate Editor and Editorial board member of few internationally reputed scientific Journals.



Dr. Suresh Kumar has degrees in Microbiology (B.Sc), Life science specialization in bio-macromolecules (M.Sc.,) and Microbiology (Ph.D.,). He is currently working as a senior lecturer in Universiti Putra Malaysia, Malaysia. He has been Post-Doctoral research Fellow in National Central University and National Taiwan University, Taipei-Taiwan in the field of yeast genetics and Stem cells. He also has been Senior Research Executive (Fermentation of Microbial drugs) in IPCA Laboratory Ltd, Mumbai, India, R&D officer (Fermentation of Microbial drugs) in Gujarat Themis Biosyn Ltd., Vapi, Gujarat, India, a Senior and Junior Research fellow (Fermentation and purification of enzymes) in University of Delhi South campus, New Delhi, India. Currently, he is also a consultant in one of the Project of King Saud University, Saudi Arabia and he is an editor for PLoS One and American Journal of Tissue Engineering, Columbia international Publishing. His research interests have focused on Infectious Diseases in Tuberculosis, Dengue and Leptospirosis, Bio-macromolecules, Yeast genetics, Fermentation and purification of Microbial drugs and enzymes, Stem cells with Infectious diseases, Stem cell niches, Induced Pluripotent stem cells.

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Dr. Haslinda Mohd Anuar is a Senior Lecturer at School of Law, Universiti Utara Malaysia (UUM). She obtained LL.B (HONS) from the International Islamic University in 1994, and LL.M (Public Law) from University of Wales Aberystwyth, United Kingdom in 1996, she then been awarded with her PhD in Environmental Law from Newcastle University, United Kingdom in 2015. In academic, she involves in a number of researches, i.e., Kajian Penerokaan Terhadap Hukuman Di Bawah Undang-Undang Berkaitan Pencemaran Perairan Daratan Di Malaysia; Kajian Terhadap Tahap Pengetahuan, Amalan Dan Sikap Berkaitan

Alam Sekitar Di Kalangan Pelajar Sekolah - Kubang Pasu; and Peraturan Berkaitan Pengurusan Sisa Pepejal Di Utara Semenanjung Malaysia. Dr Haslinda Mohd Anuar also produced several articles in environmental issues: Mohd. Anuar, H., & Wahab, H.A. (2015). Sisa Pepejal dan Pembersihan Awam: Pengurusan dan Perundangan. *Solid Waste Solutions Journal*. 1(0), 1 - 14; Yaacob, N., Wahab, H.A., & Mohd. Anuar, H. (2015). Peraturan Yang Mengawal Selia Industri Getah dalam Menangani Pencemaran Air di Malaysia. 4th International Conference on Law & Society. 1(1), 1 - 10; Mohd. Anuar, H. (2014). Environmental Governance in Malaysia: An Overview. *The UUM International Conference on Governance 2014*. 00(0), 154 - 162; Mohd. Anuar, H. (2013). The concept of environmental rights: an overview. 7th UUM International Legal Conference 2013; Mohd. Anuar, H. (2012). Towards An Environmental Sustainability: Environmental Education or Environmental Rights?. *Proceeding of The 5th International Borneo Business Conference (IBBC) 2012*. (0), 108 - 113; Mohd. Anuar, H. (2011). An Overview of Public Participation under EIA. *Proceeding of The 6th UUM International Law Conference 2011*. (1), 346 - 351; Mohd. Anuar, H. (2011). Right to Information on Environmental Impact Assessment (EIA). *Proceeding of the International Soft Science Conference 2011 (ISSC2011)*; and Mohd. Anuar, H., & Wahab, H.A. (2010). Akta Pepejal Sisa Pepejal dan Pembersihan Awam 2007: Satu Pandangan. *International Seminar Economic Regional Development, Law and Governance in Malaysia and Indonesia*.



Dr. Md. Aminur Rahman has been working as a Senior Research Fellow (Senior Associate Professor Equivalent) in the Institute of Bioscience, Universiti Putra Malaysia (UPM) since January, 2010. He has been involved in teaching/supervising undergraduate and postgraduate students in various fields of marine sciences, fisheries and aquaculture as well as conducting research on "Biology, ecology, diversity, breeding, seed production, culture and biochemical composition of sea urchins, sea cucumbers and fishes". Meanwhile, he is involved in some international collaborative research work on marine biology, fisheries and aquaculture with scientists of different institutes, including Smithsonian Institution (USA), Australian Nuclear Science

and Technology Organization (Australia), Sultan Qaboos University (Oman), Kindai University, Japan, Sinop University (Turkey) etc., while others are under the process of establishment. Before that, Dr. Rahman had obtained his M.S. and Ph.D. degrees in Marine and Environmental Sciences from University of the Ryukyus, Okinawa, Japan (1995-2001), where he also did two years (2003-2005) JSPS postdoctoral research on "marine biology, reproduction, fertilization, hybridization, speciation and aquaculture in the Indo-Pacific sea urchins". He also worked in the Smithsonian Tropical Research Institute, Panama, and USA for two years (2007-2009) in the same field with Atlantic sea urchins as the Smithsonian postdoctoral researcher. In addition, he worked as a Chief Researcher in the Ocean Critters Ranch, Inc., Crowley, Texas, USA on "breeding and propagation of various marine ornamental fishes and corals". Moreover, he worked as a senior scientist in Bangladesh Fisheries Research Institute during 1988 to 2007 in various fields of Breeding Biology, Nursing, Aquaculture and Fisheries Management. His expertise areas broadly lie in Marine and Freshwater Biology, Limnology and Aquatic Ecology, Reproductive Biology and Fertilization kinetics, Population dynamics, Breeding, Nursing and Seed Production, Aquaculture and Conservation, and Taxonomy and Evolution. His multidisciplinary research and educational backgrounds provide him a unique and novel perspective in conducting research work in a diverse field of Aquatic Biology and Ecology, Marine and Environmental sciences, Fish Nutrition, Aquaculture and Fisheries Sciences, and Biodiversity conservation, and thus enable him to coordinate with scholars in different academic disciplines. Dr. Rahman has published 110 scientific papers in international and nationally reputed high impact journals, 19 referred proceedings, 2 books and 12 book chapters. A good number (22) of scientific papers have also been presented and published in international conferences, symposia and workshops. He has also been serving as editors and editorial board members of some reputed journals and proceedings.



Mr. Don Theseira and Ms. Mylene Ooi from GreenCrusaders.com are two recycling enthusiasts, who started their household waste recycling project in 1996. This retired couple are based in Bukit Mertajam, Penang and they have travelled across Malaysia to educate various organisations, corporations and residents' associations on the need to recycle household waste. They also teach the art of composting household scraps, using a method which Don has perfected over the years. Don and Mylene have successfully combined recycling with charitable causes by donating the proceeds of each recycling project to charity organisations. Besides being featured in countless magazines and newspapers over the years, they have also been awarded the title "Everyday Heroes" by Readers' Digest in 2002 for their tireless efforts

in helping the environment. They present on how you can achieve zero waste, how to recycle your household waste and at the same time, how you can raise money for your favourite charity organisation. They have presented more than 250 talks on recycling and participated in 8 exhibitions.

Awards

- Reader's Digest 'Every Day Hero' (featured in December 2002 issue)
- Guang Ming Heroes (Chinese daily 14 April 2005)
- Received PKT title given out by The Governor of Penang (13 July 2008)

Grants

- Recipients of RM 8,000 grant from Ford Motor Company for year 2004 (Conservation engineering category)



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REGISTRATION FORM

Name (*Prof./Dr./Mr./Ms.) : _____
Organisation : _____
Address : _____

Tel : _____
Fax : _____
Email : _____

Seminar Registration Fees and Payment Guidelines:

Academics & Scientists	RM 50
University Students*	RM 25
Company Representatives	RM 100
School Students	Free Entry

Enclosed is a bank draft/money order of RM _____ No. _____ in favour of 'AIMST SDN BHD A/C 2' as a payment for my registration fee for the national seminar.

Note:

- Online payment (IBG transfer) can be made at any branch of CIMB, payable to AIMST SDN BHD A/C 2 (Account number 8006376336). Registration fees includes GST
- Please scan and email the online bank transfer receipt to aimst.wed2016@gmail.com on / before 02nd September, 2016
- Participants under the category of student registration are needed to submit an official letter of studentship from the respective university or a scanned copy of a student identity card and participation approval signature from the head of the department or main supervisor
- All documents/letters must be in English
- Only registered participants will receive Certificate of Participation

Signature: _____

Name: _____

Date: _____

Accommodation

AIMST University campus accommodation [room(s)/apartment(s)] can be reserved in advance for the interested participants. Participants can also reserve hotel rooms on their own.

University-Campus Accommodation

Hostel (Students residence): RM 40/ day;
Guest House: RM 80/ day;
Guest Apartment: RM 40/ room/ day

Contact Us

Dr. Shalini Sivadasan

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AIMST University, Jalan Bedong - Semeling, 08100, Bedong, Kedah Darul Aman, Malaysia.

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