



**UPM**  
UNIVERSITI PUTRA MALAYSIA  
BERILMU BERBAKTI



## **CURRICULUM VITAE**

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**AHMAD MAKMOM ABDULLAH  
FACULTY OF ENVIRONMENTAL STUDIES  
UNIVERSITI PUTRA MALAYSIA  
4340 UPM SERDANG  
SELANGOR DARUL EHSAN  
MALAYSIA  
2016**

## 1. PERSONAL DETAIL

**NAME** : AHMAD MAKMOM BIN HJ ABDULLAH

**ADDRESS** : DEPARTMENT OF ENVIRONMENTAL SCIENCE  
FACULTY OF ENVIRONMENTAL STUDIES  
UNIVERSITI PUTRA MALAYSIA  
4300 UPM SERDANG  
SELANGOR DARUL EHSAN  
MALAYSIA

Tel.: 603-89466759  
Fax.: 603-89466768  
Email: [amakmom@upm.edu.my](mailto:amakmom@upm.edu.my) or [amakmom@gmail.com](mailto:amakmom@gmail.com)

**POSITION** : ASSOCIATE PROFESSOR

**SPECIALIZATION** : AIR QUALITY, CLIMATE CHANGE AND  
ECOPHYSIOLOGY

**DATE OF BIRTH** : 26 AUGUST 1961

**PLACE OF BIRTH** : NIBONG TEBAL, SEBERANG PERAI

**ACADEMIC  
QUALIFICATION** : **Ph.D IN (ECOPHYSIOLOGY)**  
UNIVERSITI PUTRA MALAYSIA, 1998

**M.Sc (PLANNING)**  
UNIVERSITI SAINS MALAYSIA, 1991

**B.Sc(HONORS) IN ECOLOGY**  
UNIVERSITI MALAYA, 1986

## 2. ACADEMIC AND OTHER RELEVANT APPOINTMENTS

### i. Academic Appointment

Associate Professor (2004 – present)  
Lecturer (1998 – 2003)

### ii. Administrative Appointment

Deputy Dean (Academic and Student Affair)  
Faculty of Environmental Studies, Universiti Putra Malaysia (2015 – 2017)

Deputy Dean (Academic and Student Affair)  
Faculty of Environmental Studies, Universiti Putra Malaysia (2010 – 2015)

Head of Department of Environmental Science  
Faculty of Environmental Studies, Universiti Putra Malaysia (2009 – 2010)

Head of Ecological System and Modeling Laboratory,  
Rain Forest Academy, Universiti Putra Malaysia (2005-2006)

Contact Person, Technical Committee,  
National Committee on Acid Deposition, EANET Program,  
Ministry of Natural Resources and Environment (2000-2010)

Lead Internal Auditor, MS ISO 9001:2000,  
Faculty of Environmental Studies, Universiti Putra Malaysia (2004-2006)

Committee Member, Master in Environment Program (MASPUTRA),  
Faculty of Environmental Studies, Universiti Putra Malaysia (2006-2008)

Committee Member, Technical Committee on Air Quality TC/Z/8,  
SIRIM Sdn. Bhd.(2006-present)

Chairman, Working Group on General Aspects,  
ISO Standard for Ambient Air Quality. SIRIM Sdn. Bhd. (2006-present)

### iii. **Expert Appointment**

#### a. **International Level**

**Chairman**, Conference Technical Committee, International Conference on Agricultural Wastes: “Turning Wastes to Wealth”. Sponsored by Asia-Pro-Eco project by EU. Organized by UPM in Collaboration with Hamburg University of Technology, Germany, Wageningen University and Research Center, The Netherland and Ministry of Agriculture, Malaysia. March 21-23, 2006

**Project Leader**, UPM Research Team on Chicken Manure Treatment and Application Possibilities in Asia. Asia-Pro-Eco Project. Joint EU-Project between UPM-Hamburg University of Technology-Germany and Wageningen University, The Netherland: 2004-2006.

#### b. **National Level**

**Technical Review Panel**: Natural Hazards and Climate Extremes: Development of Community Based Early Warning. Scretariate MSPK, Ministry of Science, Technology and Innovation, Malaysia. 2015-2016.

**Panel Assessor (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Kemaman Bitumen Refinery DU/VDU Revamp and New Tank Farm Project at Kemaman, Terengganu” by Kemaman Bitumen Company Sdn. Bhd. (2015).

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Expansion of Aluminium Smelting Plant on Lot 36 at Samalaju Industrial Park Similajau, Bintulu, Sarawak” by Press Metal Bintulu Sdn. Bhd. (2015).

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Development of a New 30 KT/yr 2-Ethylhexanoic Acid Plant at The Integrated Chemical Site in Gebeng Kuantan” by BASF Petronas Chemical Sdn. Bhd. (2015).

**Review Expert (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Phase 3 Development of Sanitary Landfill Pulau Burung, Seberang Perai Selatan, Pulau Pinang” by PLB Terang Sdn. Bhd. (2015).

**Review Panel (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Production Sustainability Project (Phase 1) Tioxide (Malaysia) Sdn. Bhd., Teluk Kalong Industrial Area, Kemaman, Terengganu Darul Iman, Malaysia” by Tioxide (Malaysia Sdn. Bhd. (2012).

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Butadiene Rubber Plant and Feedstock Transfer Pipeline at Tanjung Langsung Industrial Estate, Johor” by Malaysian Synthetic Rubber Sdn. Bhd. (2012)..

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Expansion of Existing Integrated Steel Mill and proposed New Rolling Mill at Bukit Raja Industrial Estate, Klang, Selangor” by Malaysia Steel Works (KL) Bhd. (2013).

**Journal Reviewer:** Surface Ozone Trend in Major Rice Growing Areas in Malaysia. Sains Malaysiana. Universiti Kebangsaan Malaysia. 2013.

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Pekan Nenas Sanitary Lanfill on Lots 913 and 915, Mukim Jeram Batu, District of Pontian, Johor Darul Takzim by Jabatan Pengurusan Sisa Pepejal Negara, Kementerian Perumahan dan Kerajaan Tempatan. (2013).

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Implementation of An Integrated Waste Management System (IWMS) in Bintulu Samalaju Industrial Park, Sarawak by Trienekens (Samalaju) Sdn. Bhd. (2013).

**Subject Expert** on the Establishment of National Ambient Air Quality Standard appointed by Department of Environment, Malaysia (2012-2013).

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Transfer Station and Waste Recovery at Jelutong, Seksyen 8, Georgetown, Penang by Penang City Council. 2012.

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “The Proposed Butadiene Rubber Plant and Feedstock Transfer Pipeline at Tanjung Langsung Industrial Estate, Johor by Malaysian Synthetic Rubber Sdn. Bhd., 2011.

**Member** of Malaysian Task Force and Expert Group on Soil and Vegetation Monitoring under Scientific Advisory Committee. Ministry of Natural Resource and Environment for The Acid Deposition Monitoring Network in East Asia (EANET). 2001-2011.

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Proposed Production Sustainability Project (Phase II) at the Existing Titanium Dioxide Pigment Manufacturing Facility, Teluk Kalong Industrial Area, Kemaman. Terngganu darul Iman by Hunstman Tioxide (Malaysia) Sdn. Bhd. (2011).

**Panel Assessor** on the Proposed Research Plan for Post-Doctoral Research Scheme (Post-Doctoral Fellowship (PDF)) on behalf of Ministry of Science, Technology and Innovation. Malaysia. (2010).

**Judge/Arbitrator** for Eco Challenge organized by Flextronic (2010).

**Chairman.** Publishing Work on Environmental Field. Dewan Bahasa dan Pustaka. (2010-2012).

**Panel Interviewer.** Federal Training Award (Hadiah Latihan Persekutuan (HLP)). Sesi 2010 Pegawai Tadbir Diplomatik (PTD). Jabatan Perkhidmatan Awam (JPA)

**Panel Assessor** on the Diplomatic Administer Officer (PTD) Phd proposal. Jabatan Perkhidmatan Awam (JPA) (2010).

**Guest Lecturer.** Kursus Penilaian Tahap Kecekapan Arkitek Lanskap J52. Jabatan Lanskap Negara. 2008.

**Panel Assessor.** Fundamental Research Grant Scheme (FRGS). Department of Chemical Engineering and Department of Environment on behalf of Ministry of Higher Learning (KPT), Malaysia. 2008.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Golden Hope Composting Project-Pekaka” by Golden Hope Plantation Berhad. On behalf of MARDI and Ministry of Natural Resource and Environment. 2008.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Ejuara Melaka Composting Project at Ejuara Fertilisers Sdn. Bhd.” By Ejuara Fertiliser Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2008.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Co-composting with AVC POME Treatment System for Mewah palm oil Mill” by Brite-Tech Venture Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2008.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Co-composting with AVC POME Treatment System for Haranky Palm Oil Mill” by Brite Tech Venture Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2008.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Co-composting with AVC POME Treatment System for Jugra Palm Oil Mill” by Brite Tech Venture Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2008.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Co-composting with AVC POME Treatment System for

Ban Dung Palm Oil Mill” by Brite Tech Venture Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2008.

**Panel Assessor.**Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Composting of Solid Biomass Separated from the Palm Oil Mill effluent (POME) through the use of AVC Sludge Dewatering System at Malpom Industries Bhd.” by Brite Tech Venture Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2008.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Co-composting of Palm oil Mill Waste at Keratong” by Hi-Tech Activated Carbon Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Composting Project Activity for Biomass Residues Derived from CPO Mills” by Kilang Kelapa Sawit Fortune Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Evaluator:** Fundamental Research Grant Scheme (FRGS Phase 1/2008) , Universiti Putra Malaysia under Applied Science. Universiti Putra Malaysia. 2007.

**Expert panel.** Clean Air Action Plan. Department of Environment.Ministry of Natural Resources and Environment, Malaysia. (2007).

**Expert Panel.** Clean Air Action Plan. Department of Environment.Ministry of Natural Resources and Environment, Malaysia. (2007).

**Committee Member** Task Force.Inter-Laboratory Acid Deposition Monitoring Network in East Asia (EANET).Ministry of Natural Resources and Environment, Malaysia. (2007).

**Expert Panel.** Technical Committee on Clean Development Mechanism (Agricultural Sector) appointed by Malaysian Agricultural Research Institute (MARDI). 2007.

**Chairman.** Working Group on Standardization of Tools for General Aspects of Ambient Air. SIRIM. 2007- present.

**Panel Assessor.** Clean Development Mechanism (CDM) -Project Design Document FORM (CDM-PDD) for Agricultural Sector: Project Entitled “Inno-Kwantas Mewah-palm oil Mill Waste Recycle Scheme, Malaysia Version number 1.0.” by Inno Integrasi Sdn. Bhd. Lahad Datu-Sandakan, Mukim Koyah Kinabatangan, Sabah. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Reviewer (Air Quality)** on the Detailed Environmental Impact Assessment (DEIA) Reports on behalf of Department of Environment for the “Cadangan Projek Pembangunan Tapak Pelupusan Sampah Perbadanan Labuan di Bukit Kallam, Wilayah Persekutuan Labuan (Tapak Baru)” by Perbadanan Labuan. (2007).

**Panel Assessor.** Project Idea Note (PIN) Clean Development Mechanism (CDM) for Agricultural Sector: Project Entitled “Composting Project Activity for Biomass Residues Derived from CPO Mills” by Kilang Kelapa Sawit Fortuna Sdn. Bhd. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Assessor.**Clean Development Mechanism (CDM) -Project Design Document FORM (CDM-PDD) for Agricultural Sector: Project Entitled “Methane Recovery in Wastewater

Treatment, Project AMA07-W-01” by AES AgriVerde Services (M) Sdn. Bhd. Kuala Lumpur. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Assessor.**Clean Development Mechanism (CDM) -Project Design Document FORM (CDM-PDD) for Agricultural Sector: Project Entitled “Avoidance of Methane Production in POME Treatment Through Boustead Biotherm Palmass Technology” by Boustead Plantations Bhd. Kuala Lumpur. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Expert Assessor:** “Kesahan Kandungan” Instrumen Ujian Pra, Pos1 dan Pos 2 Sikap Terhadap Alam Sekitar dan Aktiviti Rawatan. Ph.D thesis. Tiwi Kamidin bertajuk “Penerapan Unsur Ekopsikologi Dalam Pendidikan Alam Sekitar bagi Meningkatkan sikap terhadap alam sekitar dikalangan Pelajar KPLI Istitut Pendidikan Guru. 2007.

**Panel Assessor.** Clean Development Mechanism (CDM) -Project Design Document FORM (CDM-PDD) for Agricultural Sector: Project Entitled “Methane Recovery in Wastewater Treatment, Project AMA07-W-1), Perak, Malaysia by AES AgriVerde. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Assessor.** Clean Development Mechanism (CDM) -Project Design Document FORM (CDM-SSC-PDD) for Agricultural Sector: Project Entitled “MSS Biomass 9.7 MWe Condensing Steam Turbine Project” by PT. Murini Samsam (MSS), Medan, Indonesia. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Assessor.** Clean Development Mechanism (CDM) -Project Design Document FORM (CDM-SSC-PDD) for Agricultural Sector: Project Entitled “Johor Bundled Biomass Steam Plant in Malaysia: Revision 3. July 7, 2006” by WT Speciality Ingredients Sdn. Bhd. (Private company), Malaysia. On behalf of MARDI and Ministry of Natural Resource and Environment. 2007.

**Panel Evaluator:** Research University Grant Scheme (RUGS) , Universiti Putra Malaysia under Cluster Forestry and Environmental Studies. Universiti Putra Malaysia. 2007.

**Panel Assessor.**Clean Development Mechanism (CDM) -Project Design Document FORM (CDM-PDD) for Agricultural Sector: Project Entitled “Inno-Malsa- Palm Oil Mill Waste Recycle Scheme, Malaysia” by Malsa Corporation Sdn. Bhd., Sandakan, Sabah. On behalf of MARDI and Ministry of Natural Resource and Environment. 2006.

**Subject Expert Panel** on air quality for EIA Report Jabatan Alam Sekitar, 2007.

**Expert Panel** Application for ScienceFund (MOSTI) Universiti Putra Malaysia. 2007

**Board Member** Journal of Science and Technology PERTANIKA 2006.

### **3. AWARDS AND RECOGNITION**

#### **i. Award**

1. Travel Grant Award, Invited by Faculty of Engineering, National Institute of Environmental Studies as a visiting scientist for Steering Committee Meeting, Tsukuba, Japan under Collaboration Research UPM/NIES/FRIM, 2014.

2. Excellent service award 2014. Universiti Putra Malaysia.
3. Travel Grant Award, Invited by Faculty of Engineering, National Institute of Environmental Studies as a visiting scientist under Collaboration Research UPM/NIES/FRIM, 24 September-25 September 2012.
4. Excellent service award 2011. Universiti Putra Malaysia.
5. Travel Grant Award, Invited by Faculty of Engineering, Kyoto University as a visiting scientist for to attend a research activity on Expert Group Meeting (Group VII – JSPS-VCC) Toward Next Research Proposal on Energy and Urban Structure, Air Quality Modeling, and Urban Sound Environment by Japan Society for the Promotion of Science (JSPS) and Vice-Chancellors' Council of National Universities in Malaysia, 2010.
6. Travel Grant Award, Invited by Faculty of Engineering, Kyoto University as a visiting scientist under Japan Society for the Promotion of Science (JSPS) and Vice-Chancellors' Council of National Universities in Malaysia. Comprehensive Seminar, Kyoto University, 2008.
7. Travel Grant Award, Invited by Hiroshima University as a Malaysian Delegate under Collaboration Research Between UPM/FRIM/NIES, Japan. 2008.
8. Certificate of Appreciation for participate in the “Kaed Research and Innovation Exhibition 2009”. The kulliyah of Architecture and Environmental Design”. International Islamic University Malaysia. 5<sup>th</sup> February 2008.
9. Travel Grant Award, Invited by Vegetation Control Laboratory, Department of Forest Vegetation. Forestry and Forest Products Research Institute (FFPRI) as a visiting scientist under Collaboration Research between UPM/FRIM/NIES, Japan. 8 February to 4<sup>th</sup> of March 2007.
10. Travel Grant Award, Invited by Faculty of Engineering, Kyoto University as a visiting scientist for Study on the Planning Urban Energy System to minimize of CO<sub>2</sub> and Other Air Pollution in Cities under different Climate Conditions-Japan and Malaysiaby Japan Society for the Promotion of Science (JSPS) and Vice-Chancellors' Council of National Universities in Malaysia, 2007.
11. Excellent service award 2006. Universiti Putra Malaysia.
12. Anugerah Penyelidik Harapan 2006. Seminar Penyelidikan IRPA RM7. Faculty of Science and Environmental Studies. Universiti Putra Malaysia.
13. Travel Grant Award, Invited by Faculty of Engineering, Kyoto University as a visiting scientist Malaysian-Japanese Seminar on Japan Society for Promotion Science (JSPS)-Vice Chancellors - Council (VCC). 2005. Second seminar of JSPS-VCC Group 7 (Study on the Planning Urban Energy System to Minimize of CO<sub>2</sub> and Other Air Pollution in Cities under Different Climate) held in Ritsumeikan University on 22 and 23 September, and to take part in the technical tour on 24. In this seminar, research members in Group 7 discuss about concrete research collaboration between Malaysia and Japan.



## ii. Recognition

1. **Journal Assessor:** Oil-Palm Shell Activated Carbon Production Using CO<sub>2</sub> Emission from CaCO<sub>3</sub> Calcination. Staff Nomination Award UMT 2014. Universiti Malaysia Terengganu.
2. **Project Completion Certificate.** Developing Precision Environmental management Utilizing Green Plot Ration, Human Activities Phenomena and Physical Development Aspect in Achieving Sustainable Living Environment (04-01-04-SF0674) under Science fund RMK KE-9. Ministry of Science, Technology and Innovation, Malaysia.2014.
3. **Certificate of Appreciation** on contribution towards Malaysia Standards Development: MS 2564:2014. Performance Criteria and Test Procedures for Continuous Emission Monitoring System (CEMS). SIRIM berhad.
4. **Subject Consultant.** Registration number-SS0584. Registered with Department of Environment, Ministry of Natural Resource and Environment in pursuing impact assessment on environment (EIA) under Section 34A, Environmental Quality Act, 1974. 14 February 2008-14 February 2013.
5. **Certificate.** Completing the Malaysia Green growth Policy Tools Training Workshop for Low carbon Development. Organised by Kettha, Environment and Development ESCAP and UNDP. Putrajaya. 18-19 May 2010.
6. **Silver Medal**– Exhibition of Invention, Research and Innovation 2010 (PRPI 10). Innovative Nutrient Regime for Optimum Yield Production of Rice due to Ozone Stress. (Ahmad Makmom Abdullah, Marzuki Ismail, Sharifah Azlina Mat Ali). Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.20-22 July 2010.
7. **Bronze Medal**– Exhibition of Invention, Research and Innovation 2010 (PRPI 10). The Effects of Improved land Use on the Meteorological Modeling in Klang Valley Region Malaysia. (Ahmad Makmom Abdullah, Wan Nor Azmin Sulaiaman, Muhammad Firuz Ramli and Loi Kok Chng). Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.20-22 July 2010.
8. **Gold Medal:** Exhibition of Invention, Research and Innovation 2008. (PRPI08) UPM. Title of Exhibition: An Expert System for Air Pollution Trend in Klang Valley, Malaysia. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia. 29-31<sup>st</sup> of July 2008.
9. **Silver Medal:** Exhibition of Invention, Research and Innovation 2008. (PRPI08) UPM. Title of Exhibition: Re-Invent Nutrient Regime of Rice for Different Ambient Ozone Concentration Malaysia. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia. 29-31<sup>st</sup> of July 2008.
10. **Gold Medal:** Exhibition of Invention, Research and Innovation 2007. (PRPI07) UPM. Carbon Sequestration in Forest Management Project. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.
11. **Gold Medal:** Exhibition of Invention, Research and Innovation 2007. (PRPI07) UPM. Developing Precision Environmental Management Utilizing Green Plot Ratio, Human Activities Phenomena and Physical Development Aspect in Achieving Sustainable Living Environment. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.

12. **Silver Medal:** Exhibition of Invention, Research and Innovation 2007. (PRPI07) UPM. Enhancement of the Building Capacity for Technology Transfer Exemplarily Carried Out for the Introduction of Environmental-Friendly Chicken Manure Treatment and Application Possibilities in Asia. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.
13. **Gold Metal:** Exhibition of Invention, Research and Innovation (PRPI) UPM 2006. Title of Exhibition: Composting of Chicken Manure: Practical Treatment Method for Small Farmers. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.
14. **Gold Medal:** Exhibition of Invention, Research and Innovation (PRPI) UPM 2006. Title of Exhibition: Simple Pelletizing Method to Convert Chicken Manure into Nutrient Rich Fertilizer. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.
15. **Gold Medal:** Exhibition of Invention, Research and Innovation (PRPI) UPM 2006. Title of Exhibition: A Structured Modeling Technology of Urban Air Pollution for Large Malaysia Cities. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.
16. **Gold Medal:** Exhibition of Invention, Research and Innovation (PRPI) UPM 2005. Title of Exhibition: Why OTC for microclimatic and Air Pollution Monitoring? Case Study: MADA Area. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia.
17. **Silver Medal:** Marzuki Ismail, Ahmad Makmom Abdullah, Sharifah Azlina Ali, Ahmad Zaki Zainol Abidin and Zulfadhly Zardi for the invention/innovation of modeling Air Pollution Dispersion from Power Plant. At PAMERAN REKACIPTA, PENYELIDIKAN & INNOVASI UPM, 2005, On 1-19 Mac 2005, UPM Serdang.
18. **Silver Medal:** Mohd Nasir Hassan, Ahmad Makmom Abdullah and Wan Nor Azmin Sulaiman for the invention/innovation of passive Ventilation in Compost Pile Under Convention Process possible Application For The treatment of Chicken Manure. At PAMERAN REKACIPTA, PENYELIDIKAN & INNOVASI UPM, 2005, On 1-19 Mac 2005, UPM Serdang.
19. **Bronze Medal:** Ahmad Makmom Abdullah, Marzuki Hj Ismail and Sharifah Azlina Ali for the invention/innovation of Study on the effects of Ambient tropospheric Ozone On Rice Yield in Malaysia. At PAMERAN REKACIPTA, PENYELIDIKAN & INNOVASI UPM, 2005, On 1-19 Mac 2005, UPM Serdang.
20. **Bronze Medal:** Mohamad Firuz Ramli, Mohd Kamil Yusoff, Saari Mustapha, Choo Siet Mei and Ahmad Makmom Abdullah for the invention/innovation of The Application of Open Source Geographical Support System For Soil Erosion Assessment. At PAMERAN REKACIPTA, PENYELIDIKAN & INNOVASI UPM, 2005, On 1-19<sup>th</sup> March 2005, UPM Serdang.

#### 4. TEACHING EXPERIENCE

##### FACULTY OF SCIENCE AND ENVIRONMENTAL STUDIES (1998-2003)

- i. Man and Environment

## FACULTY OF ENVIRONMENTAL STUDIES (2004- PRESENT)

- i. Principle of Environmental Biology
- ii. Pollution Biology
- iii. Air Pollution and Noise
- iv. Air Pollution Control
- v. Air Pollution Control Technology
- vi. Carbon Sequestration and Climate Change
- vii. Recent Advances in Environmental Studies (Post-graduate)
- viii. Urban Climate and Air Pollution (Post-graduate)
- ix. Man and Ecosystem (Master of Environment)

### TEACHING EXPERIENCE: UNDERGRADUATE COURSES

No.	Code and Name of Courses	Credit Hour	Number of Students	Teaching Assessment (Total Score: 5 or 100%)	Semester/Academic Year
1.	ESC4301 Carbon Sequestration and Climate Change	3(2+1)	18	4.78	2 <sup>nd</sup> Semester 2015/2016
2.	ESC4303 Air Pollution Control Technology	3(3+0)	40	4.34	1 <sup>st</sup> Semester 2015/2016
3.	ESC4301 Carbon Sequestration and Climate Change	3(2+1)	18	4.71	2 <sup>nd</sup> Semester 2014/2015
4.	ESC4303 Air Pollution Control Technology	3(3+0)	33	4.62	1 <sup>st</sup> Semester 2014/2015
5.	ESC 3007 Principle of Environmental Biology	4(3+1)	31	4.67	2 <sup>nd</sup> Semester 2013/2014
6.	ESC4303 Air Pollution Control Technology	3(3+0)	37	4.39	1 <sup>st</sup> Semester 2013/2014
7.	ESC 3007 Principle of Environmental Biology	4(3+1)	32	4.49	2 <sup>nd</sup> Semester 2012/2013
8.	ESC4303 Air Pollution Control Technology	3(2+0)	45	4.63	1 <sup>st</sup> Semester 2012/2013
9.	ESC 3007 Principle of Environmental Biology	4(3+1)	35	4.55	2 <sup>nd</sup> Semester 2011/2012
10.	ESC4303 Air Pollution Control Technology	3(2+0)	30	4.53	1 <sup>st</sup> Semester 2011/2012
11.	ESC 4302 Air Pollution Control	3(3+0)	57	4.44	1 <sup>st</sup> Semester 2010/2011
12.	ESC 3007 Principle of	4(3+1)	74	4.12	2 <sup>nd</sup> Semester 2010/2011

	Environmental Biology				
13.	ESC4302 Air Pollution Control	3(3+0)	55	4.41	1 <sup>st</sup> Semester 2010/2011
14.	ESC 3007 Principle of Environmental Biology	4(3+1)	69	4.44	2 <sup>nd</sup> Semester 2009/2010
15.	ESC 3305 Air Pollution and Noise	4(3+1)	58	4.11	2 <sup>nd</sup> Semester 2009/2010
16.	ESC 3007 Principle of Environmental Biology	4(3+1)	74	4.01	1 <sup>st</sup> Semester 2009/2010
17.	ESC 4503 Pollution Biology	3(2+1)	8	3.85	2 <sup>nd</sup> Semester 2008/2009
21.	ESC 3305 Air Pollution and Noise	4(3+1)	60	3.99	2 <sup>nd</sup> Semester 2008/2009
22.	ESC 3007 Principle of Environmental Biology	4(3+1)	54	4.29	1 <sup>ST</sup> Semester 2008/2009
23.	ESC 4503 Pollution Biology	3(2+1)	11	3.79	2 <sup>nd</sup> Semester 2007/2008
24.	ESC 3305 Air Pollution and Noise	4(3+1)	60	3.79	2 <sup>nd</sup> Semester 2007/2008
25.	ESC 3305 Air Pollution and Noise	4(3+1)	54	4.01	1 <sup>st</sup> Semester 2006/2007
26.	ESC 3305 Air Pollution and Noise	4(3+1)	101	3.43	2 <sup>nd</sup> Semester 2005/2006
27.	ESC 3007 Principle of Environmental Biology	4(3+1)	109	71.8	1 <sup>st</sup> Semester 2005/2006
28.	ESC4991 Environmental Seminar	1(0+1)	37	n/a	2 <sup>nd</sup> Semester 2004/2005
29.	ESC3305 Air Pollution and Noise	4(3+1)	86	77.97 (3.89)	2 <sup>nd</sup> Semester 2004/2005
30.	ESC 3007 Principle of Environmental Biology	4(3+1)	n/a	n/a	1 <sup>st</sup> Semester 2004/2005
31.	ESC 4503 Pollution Biology	3(2+1)	n/a	n/a	1 <sup>st</sup> Semester 2004/2005
32.	ESC4999 Project	6(0+6)	n/a	n/a	2 <sup>nd</sup> Semester 2003/2004
33.	ESC 4503 Pollution Biology	3(2+1)	23	83.42	2 <sup>nd</sup> Semester 2003/2004
34.	ESC 3007 Principle of Environmental Biology	4(3+1)	87	n/a	1 <sup>st</sup> Semester 2003/2004
35.	ESC 4503 Pollution Biology	3(2+1)	13	83.42	2 <sup>nd</sup> Semester 2002/2003
36.	ESC 3007 Principle of Environmental Biology	4(3+1)	87	n/a	1 <sup>st</sup> Semester 2002/2003
37.	ESC 4991 Environmental Seminar	1(0+1)	103	n/a	Session 2003/2004
38.	ESC4503 Pollution Biology	3(2+1)	n/a	n/a	Session 2003/2004

<b>39.</b>	<b>ESC 4999</b> Project	<b>9(0+9)</b>	<b>160</b>	<b>n/a</b>	Session 2002/2003
<b>40.</b>	<b>ESC 3003</b> Man and Environment	<b>3(3+0)</b>	<b>24</b>	<b>n/a</b>	1 <sup>st</sup> Semester 2000/2001
<b>41.</b>	<b>SAS 3001</b> Principle of Environmental Science	<b>3(3+0)</b>	<b>169</b>	<b>n/a</b>	1 <sup>st</sup> Semester 2000/2001

#### TEACHING EXPERIENCE: POSTGRADUATE COURSES

<b>No.</b>	<b>Code and Name of Courses</b>	<b>Credit Hour</b>	<b>Number of Students</b>	<b>Teaching Assessment (Total Score: 5 or 100%)</b>	<b>Semester/Academic Year</b>
1.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>29</b>	<b>4.0</b>	2 <sup>nd</sup> Semester 2015/2016
2.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>61</b>	<b>4.53</b>	1 <sup>st</sup> Semester 2015/2016
3.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>28</b>	<b>4.52</b>	2 <sup>nd</sup> Semester 2014/2015
4.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>30</b>	<b>4.44</b>	1 <sup>st</sup> Semester 2014/2015
5.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>38</b>	<b>4.23</b>	2 <sup>nd</sup> Semester 2013/2014
6.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>28</b>	<b>4.08</b>	1 <sup>st</sup> Semester 2013/2014
7.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>44</b>	<b>4.41</b>	2 <sup>nd</sup> Semester 2012/2013
8.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>45</b>	<b>4.42</b>	1 <sup>st</sup> Semester 2012/2013
9.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>39</b>	<b>4.53</b>	2 <sup>nd</sup> Semester 2011/2012
10.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>71</b>	<b>4.36</b>	1 <sup>st</sup> Semester 2011/2012
11.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>69</b>	<b>4.29</b>	2 <sup>nd</sup> Semester 2010/2011
12.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>65</b>		1 <sup>st</sup> Semester 2010/2011
13.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>32</b>	<b>4.39</b>	2 <sup>nd</sup> Semester 2009/2010
14.	<b>ESC 6981</b> Recent Advances in Environmental Sciences	<b>3(3+0)</b>	<b>69</b>	<b>4.17</b>	1 <sup>st</sup> Semester 2009/2010
15.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>		<b>n/a</b>	1 <sup>st</sup> Semester 2009/2010

16.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>		<b>n/a</b>	2 <sup>nd</sup> Semester 2008/2009
17.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>53</b>	<b>n/a</b>	1 <sup>st</sup> Semester 2008/2009
18.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>		<b>n/a</b>	2 <sup>nd</sup> Semester 2007/2008
19.	<b>ESC5911</b> Environmental Fieldwork	<b>1(0+1)</b>		<b>n/a</b>	2 <sup>nd</sup> Semester 2007/2008
23.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>65</b>	<b>n/a</b>	2 <sup>nd</sup> Semester 2005/2006
24.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>16</b>	<b>n/a</b>	1 <sup>st</sup> Semester 2005/2006
25.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>40</b>	<b>n/a</b>	2 <sup>nd</sup> Semester 2004/2005
26.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>	<b>23</b>	<b>n/a</b>	1 <sup>st</sup> Semester 2004/2005
27.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>		<b>n/a</b>	2 <sup>nd</sup> Semester 2003/2004
28.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>		<b>n/a</b>	1 <sup>st</sup> Semester 2003/2004
29.	<b>ESC 5016</b> Man and Ecosystem	<b>3(3+0)</b>	<b>52</b>	<b>n/a</b>	2 <sup>nd</sup> Semester 2002/2003
30.	<b>ESC 5311</b> Urban Climate and Air Pollution	<b>3(3+0)</b>		<b>n/a</b>	1 <sup>st</sup> Semester 2002/2003

**TEACHING EXPERIENCE: MONITORING/INVIGILATE OF UNDERGRADUATE STUDENT UNDERGOING INDUSTRIAL/PRACTICAL TRAINING**

<b>No.</b>	<b>Name of Student</b>	<b>Name of Agency/Company</b>	<b>Academic Year</b>
1.	Aizad Imran bin Zainal Abidin	SOx NOx Asia Sdn. Bhd., 5-3, Jalan USJ 21/6, 47630 Subang Jaya, Selangor	2 <sup>nd</sup> Semester 2015/2016
2.	Fatin Amalina binti Hishamudin	WISMA ALS, 21, Jalan Astaka U8/84. Section U8, Bukit Jelutong, 40150 Shah Alam, Selangor.	2 <sup>nd</sup> Semester 2015/2016
3.	Effa Nadia Binti Mohd Nasir	C-2-11, BBT One, Boulevard, Lebuhr Batu Nilam 2, 41200 Klang, Selangor.	2 <sup>nd</sup> Semester 2014/2015
4.	Lee Hock Guan	Builders Biomass Sdn. Bhd. 94-A, JalanJejaka, TamanMaluri, Cheras, 55100 KualaLumpur, Malaysia. 603 92854466, +603 92851775	2 <sup>nd</sup> Semester 2014/2015
5.	Nur Ashikin binti Abd Sisak	Tanjung Bin Power Plant Plant, Lot 1768& 1770, 3x700 MW Coal Fired, 82030 Serkat, Pontian, Johor	2 <sup>nd</sup> Semester 2009/2010
6.	Najwa binti Ramlan	Tanjung Bin Power Plant Plant, Lot 1768& 1770, 3x700 MW Coal Fired, 82030 Serkat, Pontian, Johor	2 <sup>nd</sup> Semester 2009/2010

7.	Moh Yiing Chiee	Pejabat Kesihatan Muar, Jalan Othman 84000, Muar, Johor 06-9522296	2 <sup>nd</sup> Semester 2009/2010
8.	Norhayati binti Hamdan	Jabatan Alam Sekitar Cawangan Kluang, Tingkat 8, Wisma Bunga, No 11, Jalan Lambak, 8600 Kluang Johor Darul Takzim	2 <sup>nd</sup> Semester 2009/2010
9.	Nurfetriyana binti Mohd Sola	Majlis Perbandaran Muar, Karung Berkunci, No 516 84009 Muar , Johor 06-9521204	2 <sup>nd</sup> Semester 2009/2010
10.	Noor Haziqah bte Kamaludin	Majlis Perbandaran Muar, Karung Berkunci, No 516 84009 Muar , Johor 06-9521204	2 <sup>nd</sup> Semester 2009/2010
11.	Mumtaz binti Mohd Bohari	Skudai Unit Office, Treatment Section, 24 Jalan Titiwangsa 3/1, Taman Tampoi Indah, 81200 Johor Bharu Darul	2 <sup>nd</sup> Semester 2009/2010
12.	Abdul Shukor bin Abdul Aziz	SAJ Holdings Sdn Bhd. Jalan Garuda Larkin, 80350, Johor Bharu Darul Takzim	2 <sup>nd</sup> Semester 2009/2010
13.	Fatin Nazwa Bt. Ajis	Jabatan alam Sekitar Cawangan Kluang, Tingkat 8, Wisma Bunga. No. 11, Jalan Lambak 8600 Kluang Johor Darul Takzim	2 <sup>nd</sup> Semester 2009/2010
14.	Teo Lee Hong	Syarikat Air Johor Holdings Sdn. Bhd. Batu 5, Jalan Genuang 85000 Segamat, Johor Darul Takzim	2 <sup>nd</sup> Semester 2009/2010
15.	Siti Norehan binti Naim	Majlis Perbandaran Kulajjaya Jalan Pejabat Kerajaan, 81000 Kulajjaya, Johor Darul Takzim	2 <sup>nd</sup> Semester 2009/2010
16.	Muhammad Amar bin Zaudi	Industrial Water Engineers 37 Jalan Salung 33/26 Shah Alam Technology Park Seksyen 33, 40400 Shah Alam Selangor 03-51220319	2 <sup>nd</sup> Semester 2008/2009
17.	Mohd Fahmi bin Mohd Nasir	Industrial Water Engineers 37 Jalan Salung 33/26 Shah Alam Technology Park Seksyen 33, 40400 Shah Alam Selangor 03-51220319	2 <sup>nd</sup> Semester 2008/2009
18.	Siti Nurul Farehah binti Aziz	Alam Flora Sdn. Bhd. Level 4, Wisma DRB-HICOM No.2, Jalan Usahawan U1/8, Seksyen U1 40150 Shah Alam Selangor 017-9141705	2 <sup>nd</sup> Semester 2008/2009
19.	Zatiha Nani Ishak	Jabatan Alam Sekitar, Negeri Selangor, Tingkat 17, Wisma MPSA Persiaran Perbandaran 40675 Shah Alam Selangor 03-55214128	2 <sup>nd</sup> Semester 2008/2009
20.	Engku Nurul Syuhadah binti Engku Azman	Alam Flora Sdn. Bhd. Level 4, Wisma DRB-HICOM No.2, Jalan Usahawan U1/8, Seksyen U1 40150 Shah Alam Selangor	2 <sup>nd</sup> Semester 2008/2009

		03-55214128	
21.	Norhasliza bt Mohd Zam Zam	Hospital Tengku Ampuan Jemaah, Sabak Bernam, Selangor 03-3216333	2 <sup>nd</sup> Semester 2004/2005
22.	Gan Khau Hoi	Dipsol (M)Sdn. Bhd. Teluk Panglima Garang, Kuala Selangor, Selangor 03-31226321	2 <sup>nd</sup> Semester 2004/2005
23.	Choo Wuan Ching	Radicare (M)Sdn. Bhd. Jalan Waja 16, Kawasan Perindustrian, Teluk Panglima Garang, Selangor 03-1222020	2 <sup>nd</sup> Semester 2004/2005
24.	Rohana bt Ishak	Toshiba Electronics (M) Sdn. Bhd. Jalan Klang Banting, Teluk Panglima Garang, Selangor 03-31226001	2 <sup>nd</sup> Semester 2004/2005
25.	Adidi bin Tamin	APM Automotive Holding Berhad, Pendamaran Industrial Estate, Port Klang, Selangor 03-31670800	2 <sup>nd</sup> Semester 2004/2005
26.	Loke Thien Thien	Tiek Heng Timber Trading Sdn. Bhd. Sungai Buluh , Selangor 03-61567084	2 <sup>nd</sup> Semester 2004/2005
27.	Farahrina bt Francis Martin	Good Water Engineering Sdn. Bhd Taman Putra Sulaiman, Ampang Selangor	2 <sup>nd</sup> Semester 2004/2005
28.	Wong Cheng Lee	MARDI, Jelebu, Negeri Sembilan 06-4914672	2 <sup>nd</sup> Semester 2004/2005
29.	Norhazilawati Bt Baharum	Hevea Board, Gemas, Negeri Sembilan 07-9485153	2 <sup>nd</sup> Semester 2004/2005
30.	Goh Guan Fun	MARDI, Jelebu, Negeri Sembilan 06-4914672	2 <sup>nd</sup> Semester 2004/2005
31.	Syamsul Ikram A. Tarmizi	MPOB, 6 Persiaran Institusi, BBB, 43000 Kajang. Contact Person: Pn. Zainon M. Shariff Phone: 8925-9155, Fax: 8925-9446	2 <sup>nd</sup> Semester 2003/2004
32.	Nafiza Husna Shafie	Jabatan Pengairan dan Saliran Pulau Pinang, Ting. 29, Bangunan KOMTAR, Jln Penang10000 P.P. Contact Person: Ir. Mohd. Abdul Nassir Bidin, Pen. Pengarah Kanan (Saliran& Sungai). Phone: 04-2610460, Fax: 04-2613435	2 <sup>nd</sup> Semester 2003/2004
33.	Rosemaria Idris	Jabatan Pengairan dan Saliran Pulau Pinang, Ting. 29, Bangunan KOMTAR,	
34.	Yong Hie Hie	MARDI, Peti Surat 12301, Pejabat Besar Pos, 50774 KL. Contact Person, Hj. Subki Ahmad, Bahagian Pengurusan Sumber Manusia. 8943-7111 Fax: 89463664	
35.	Yuveena a/p Gopalan	Kementerian Kesihatan Malaysia, Bhg. Perkh. Kejuruteraan, Tingkat 4 & 6, Wisma Sime Darby, Jln. Raja Laut, 50590, K.L. Phone: 2694-9304, Fax: 2694-9317	
36.	Sharon Ng Ee Lynn	MARDI, Peti Surat 12301, Pejabat Besar Pos, 50774 KL. Contact Person, Dr, Hawa Jaafar, Supervisor. 8943-7111 Fax: 89463664	



## TEACHING EXPERIENCE: SERVICE COURSES/TRAINING PROGRAMMES

No.	Type of Service	Name of course	Number of participants	Sponsored agency	Semester/ Academic Year
1.	Course Coordinator	Short Course Training on Air Quality Modeling: Human Resource Development Program with Modeling Simulation SMOKE, CMAQ and Hysplit.	20	Department of Meteorology Malaysia (MetMalaysia)	18-22 October 2010.

## 5. RESEARCH ACTIVITIES

### i. Research Completed

1. Assessment of Heavy Metals in Airborne particulate Matter Using Atomic Absorption Spectrometry (AAS) for Air Quality Protection . Research University Grant Scheme (RUGS-GP-IPS) Geran Putra 2013. RM15,000. 2015-2016. **Head of Project.**
2. Resilience, Vulnerability and Adaptive Capacity of East Coast Communities in Malaysia to Flood. Ministry of Higher Education. Fundamental Research Grant Scheme (Flood Project). RM 72,200.00. 2015. Extended to April 2016. **Head of Project.**
3. Evaluation of Tropospheric Ozone Levels in Urban Areas Using Integrated Mesoscale Model (MM5) and Community Multiscale Air Quality Modeling System. Ministry of Higher Education (KPT), Fundamental Research Grant Scheme (FRGS), RM 93,000.00. 2010-2012. **Head of Project.**
4. Quantifying Carbon Sequestration in Tropical Afforestation, Agroforestry and Forest Management Project Using CO2FIX V3 Model. Ministry of Higher Learning (KPT), Fundamental Research Grant Scheme (FRGS), RM 83,000.00. 2007-2010. **Head of Project.**
5. Comparative Study On The Physiology and Growth of Belian (*Eusideroxylon Zwageri*) seedlings in Ambient and Elevated CO<sub>2</sub>. Fundamental Research Grant Scheme (FRGS).(Nombor Projek: 01-01-07-053FR dan Pusat Kos: 5523054). RM81,000. 2007-2010.
6. Developing Precision Environmental Management Utilizing Green Plot Ratio, Human Activities Phenomena and Physical Development Aspect in Achieving Sustainable Living Environment. Ministry of Science, Technology and Innovation. MOSTI e-Science Fund. RM 211,745.00. 2006-2009. **Head of Project.**
7. Enhancement of the building capacity for technology transfer exemplarily carried out for the introduction of environmentally-friendly chicken manure treatment and application possibilities in Asia. European Commission Grant (Asia-Eco-Pro Project). RM450,000.00. 2005-2006. **Head of Project.**
8. Evaluation of Industrial Air Pollution from Prai Industrial Zone and its Impacts on Paddy Plantation in MAA (Muda Agricultural Development Authority) Area. Ministry of Science,

Technology and Environment. MOSTE IRPA RMK 8 Grant. RM 273,240.00. **Head of Project.**

9. Modeling Photosynthesis in Rubber Plantation, Oil Palm Plantation and Tropical Forest. Short Term Research Grant, UPM. RM 25,000. 2001-2003. **Head of Project.**

**ii. On-Going Research.**

10. Assessment of Corrosion Effect on Metals from Traffic Induced Airborne Particulate by Loss Method for Improvement of Metal Protection. Research University Grant Scheme (RUGS-GP-IPS). Geran Putra 2013. RM20,000. 2016-2017. **Head of Project.**

**6. MAJOR SUPERVISION ON GRADUATE STUDENT**

**i. Main Supervisor: Ph.D thesis**

No.	Name of Student	Country	Specialization	Thesis Title	Year Graduate
1.	Zam Zam Tuah	Malaysia	Environmental Pollution Control	To be confirmed	In-progress
2.	Chng Loi Kok	Malaysia	Environmental Pollution Control	Formulation of Ambient Air Standard of PM <sub>2.5</sub> Based on Community Health Risk Assessment Utilizing Spatial Variations by WRF-CHEM Modeling System.	In-progress
3.	Azadeh Ghadimzadeh	Iran	Environmental Pollution Control	Environmental Co-Benefit Assessment of CO <sub>2</sub> Reduction of On-Road Vehicles in Selangor State.	In-progress
4.	Fadel Mohamed M. Ali Binyehmed	Libya	Environmental Pollution Control	Assessment of Corrosion Effect on Metals from Traffic Induced Airborne Particulate by Loss Method for Improvement of Metal Protection	In-progress
5.	Khaled ben Youssef	Libya	Environmental Pollution Control	Application of remote Sensing for Assessing PM <sub>2.5</sub> in Klang Valley of Malaysia	In-progress
6.	Nazanin Asgari	Iran	Environmental Pollution Control	Cultivation and Comparison of Fresh Water Microalgae TMS <i>Chlorella vulgaris</i> and Open Pond Mixed Algae Under Alp Bio Reactor to Show the Famea TMS Content to investigate the Potential of Microalgae for Biodiesel Production	In-progress
7.	Rasheeda Elawad Elhadi Elawad	Sudan	Environmental Pollution	Assessment of heavy metals Concentration in Aurborne	In-progress

			Control	particulate Matter (PM10) for Air Quality Conservation in Traffic Area-Klang Valley	
8.	Danladi Yusuf Gumel	Nigeria	Environmental Pollution Control	Vulnerability Assessment and Building Resilience of Paddy Farmers to Climate Change Variability in Peninsula Malaysia	In-progress
9.	Mohd Asrul Jamalani	Malaysia	Environmental Pollution Control	Prediction of Air Quality in Klang Valley Using Integrated Model of MM5-CMAQ with Special Reference to PM <sub>10</sub> .	In-progress
10.	Marzieh Fallah	Iran	Environmental Management	Application Of Limits Of Acceptable Change (Lac) On Eco-Tourism Management In Penang National Park, Malaysia	2015
11.	Hosea Kato Mande	Nigeria	Environmental Pollution Control	Effects of Deforestation on Soil and Atmospheric Carbon Balance.	2015
12.	Mahmoud Javazadeh	Iran	Environmental Pollution Control	Air Pollution Control Of Ahwaz City By Improving Energy Efficiency	2014
13.	Olaniyi Akeem Olawale	Nigeria	Environmental Analysis and Modeling	Assessing Spatio - Temporal Dynamics of Agricultural Land Use in Selangor, Malaysia using CLUES model.	2014
14.	Raheleh Farzanmanesh	Iran	Environmental Analysis and Modeling	Potential Effects of Global Climate Change on Carbon Sequestration in soils of Iran.	2013
15.	Jamil Amanollahi	Iran	Environmental Analysis and Modeling	Evaluation the effects ozone on oil palm by use remote sensing.	2012
16.	Mohd Habir Bin Ibrahim	Malaysia	Environmental Pollution Control	The effects of Air Pollution by the Petrochemical Industry Among Community in State of Terengganu, Particularly at district of Kemaman and Dungun.	2012
17.	Masitah hj Mohammad Yusof	Malaysia	Environmental Education	Faktor-Faktor yang mempengaruhi Efikasi-Kendiri Guru Sekolah Menengah di Malaysia dalam Pelaksanaan Pendidikan Alam Sekitar	2011
18.	Jamilah Othman	Malaysia	Social	Tourist's Perceptions on Highland Management: Cameron Highland experience.	2008
19.	Marzuki Ismail	Malaysia	Air Pollution and Crop Production	Study on the effect of Ambient Tropospheric Ozone on Rice Yield in Malaysia.	2004

ii. Main Supervisor: M.Sc thesis

No.	Name of Student	Country	Specialization	Thesis Title	Year Graduate
1.	Nurashida Binti Saad	Malaysia	Environmental Planning and Management	Estimate of Carbon Dioxide Emission From Fishing Vessels Operation in Selangor	2016 (Making correction)
2.	Mahmud Mohammed Bose	Nigeria	Environmental Pollution Control Technology	Impacts of Climate Change on Crop Production and farmers' Adaptation Strategy in Semi-Arid Zone of North-Eastern Nigeria.	2015
3.	Omar A Jassim	Iraq	Environmental Systems and Processes	Air Pollution From Shipping In The Strait Of Malacca	2015
4.	Fazlyzan Binti Abdullah	Malaysia	Environmental Analysis and Modeling	Quantifying Carbon Sequestration In Forest Management Using CO <sub>2</sub> fix Ver3 Model.	2012
5.	Zakiah Ponrahono	Malaysia	Environmental Planning and Management	Effective Sustainable Development Strategies In Shah Alam Draft Local Plan 2020.	2012
6.	Chng Loi Kok	Malaysia	Environmental Analysis and Modeling	Predicting Sulfur Dioxide Dispersion From Multiple Sources In Major Cities In Klang Valley Using Integrated Mm5-Smoke-CMAQ Model System.	2009
7.	Hadi Heydarnia	Iran	Environmental Pollution Control Technology	Effects Of Air Pollution On Rice	2009
8.	Nurul Suliana Ahmad Hazemi	Malaysia	Environmental Analysis and Modeling	Air Pollution Dispersion From Multiple Point Source In SeberangPerai	2007
9.	Sharifah Azlina Ali	Malaysia	Environmental Pollution Control Technology	Effects Of Ambient Ozone (O <sub>3</sub> ) Concentrations On The Growth Performances Of Rice ( <i>Oryza sativa</i> Var. Mr 219) Treated With Different Nutrient Regimes In The Muda Area, Malaysia.	2007
10.	Nurul Azura Shahdan	Malaysia	Environmental Pollution Control Technology	Effects of Ozone on Rice in MADA area	2007
11.	Tay Ai Chen	Malaysia	Environmental Pollution Control Technology	Characterization of Acid Deposition at Pasoh Forest Reserve and Sepang Fire-Peat Swamp.	2002
12.	Lau Tai Meng.	Malaysia	Environmental Pollution Control Technology	Characterization of Haze Particulate Matter.	2002

iii. **Co-Supervisor: Ph.D thesis**

No.	Name of Student	Country	Specialization	Thesis Title	Year Graduate
1.	Mohd Noor Bin Bidin.	Malaysia	Environmental Hydrology and Hydrogeology	The Impact of Land Development on Flood Wave's lag Time of Pahang River Basin.	In progress
2.	Golyasamin Khanehzaei	Iran	Waste Management	The Development of Clinical Waste Management and Planning in Public and Private Clinics in Selangor, Malaysia	In-progress
3.	Mehrnaz Farzingerhar	Iran	Environmental Modeling	Physical Modeling of Oil Spill Dispersion to Contribute With Management System for Environment Protection in Rajae Port, Iran	2011
4.	Seyed Mahmoud Mehdinia	Iran	Environmental Pollution Technology	Removal of Hydrogen Sulfide by Physico-Biological Filtration process Using Biofilm and Rice Husk Media.	2011
5.	Seyede Negin Vaghefi.	Iran	Environmental Process and System	Economic Impacts of Climate Change on the Malaysian Rice Industry.	2013
6.	Helen Morabi Heravi	Iran	Environmental Process and System	Life cycle Assessment (LCA) of Management Recyclable House holds Waste in Tehran, Iran	2014
7	Yousef K. A. Abdalhafid	Nigeria	Universiti Kebangsaan Malaysia (UKM) Environmental Sciences.	Pollution from the Cement Industry and its Impact on the Surrounding Environment	2008
8.	Tan Yen Chen	Malaysia	Kejuruteraan Alam Sekitar	Post Environmental Impact Assessment: Monitoring and Accuracy of Model Prediction (Air Quality)	In-progress

iv. **Co-Supervisor: M.Sc thesis**

No.	Name of Student	Country	Specialization	Thesis Title	Year Graduate
1.	Zakiah Binti Ponrahono	Malaysia	Environmental Planning	Sustainable development Strategy Assessment of Shah Alam Draft Local Plan 2020	2011
2.	Nurul Atikah binti Che Hasan	Malaysia	Occupational Health	Association between Extreme Heat Exposure and Acute	2015

				Physiological Change among Steel Mill Workers in Terengganu, Malaysia	
3.	Pourya Shahpoury Bahry	Iran	Environmental System and Process	Characterization of Polycyclic Aromatic Hydrocarbons in Atmosphere Aerosols Collected from Selected Location in Peninsular Malaysia	2007
4.	Mohd Fairuz Shahidan	Malaysia	Landscape Architecture	Effectiveness of PenagaLilin (Mesuaferrea L.) and paying Indonesia (Huracrepitans L) Trees as thermal radiation Filters in Outdoor Environment	2007
5.	Tham Yee Jun.	Malaysia	Environmental Control Technology	Characterization and Evaluation on the Potential of Activated carbon Derived from Agricultures Byproducts for Absorption of Toxic Vapour in Air Stream.	2009
6.	Siti Zakiah binti Mohamad	Malaysia	Urban Design (Faculty of Architecture and Landscape)	Addressing the Urban Heat Dome in kuala Lumpur City.	2009
7.	Tahereh Jafari	Iran	Seed Science and Technology	Micro Propagation of <i>Echinodorus amazonicus</i> Through the Manufacturing Synthetic Seed	2011

**v. Main Supervisor of Master of Environment Project (Non-Thesis)**

No.	Year	Name	Project Title
1	2015/2016	Jabir Abdullah Hussein	Spatial Distribution of Criteria Pollutants in the Klang Valley from 5 Monitoring Stations.
2		Jivitha A/P Veralingam	Air Quality Assessment by using Air Pollution Index in Klang Valley.
	2014/2015	Patheeba A/P Paneerchelvam	An Assessment of Thermal Comfort and User's Perception of Classroom in Tropical Climate Conditions.
		Shahrulnizam Jamen	Indoor Air Quality Assessment in Printing Industries with Specific Reference to Fine and Ultrafine Particles.
	2013/2014	Amna Elmabrouk Abu Baker	The urbanization effect on air temperature at Peninsular Malaysia.
		Azman Shah Ismail	Air Quality Pattern in Northern Region of Peninsular Malaysia Using Environmetric Technique.
		Yau Chwan Kun	Simulation of Total Dust Emission from Palm Oil Mills in Malaysia Using Biomass

			Fuel Composition and Dust Collector Efficiency Models.
	2012/2013	Mohan Kumar a/l Manikam	Reduction of Chemical Oxygen Demand, Ammonia Nitrogen and Iron in Sewage Using Coconut Shell Activated Carbon.
		Nor Nasihah Jamaludin	Study of the Awareness Level Among Secondary School Students on Indoor Air Pollution in Muar Area
		Rahimah binti Mohamed don	Valeting Proenvironmental Behavior in Green Building offices: A Case Study on Office Employees from Work to Home
		Tan Wei Wei	Roles of vegetation in Creating Crime Suppressing Environment: A Study to Multiple Residential Areas and Streets in Kuantan Pahang
		Zamzul Rizal Zulkifli	Awareness of Behaviours That Cause and Alleviate Global Warming and Intention to Perform the Behaviors Among Malaysian Educated Laypeople
		Muhammad Fadzil Ali	Determination on Factors Contributing Towards CO <sub>2</sub> Sequestration Potential of <i>Hevea brasiliensis</i> Through Environmentric Technique.
		2011/2012	Nur Maizatul Idayu bt Othman (GS27041)
	Fara Diba bt Badrul Hisham (GS27894)		Assessment of Energy Consumption and Potential of Energy at Masjid Tanah Community College towards Low Carbon Community.
	Nurul Hanira Mat Lazim (GS27968)		The Impact of the Road Users pattern on The Environment:A case study on the Carbon Dioxide (CO <sub>2</sub> ) Emission in Universiti Putra Malaysia.
	Hairul Nazmin bin Nasruddin		NOx Emission Modeling from Industrial Steam Boilers.
	2010/2011	Christiana Monica Fortune	Assessment of Land Use Change in Freetown Peninsula Rain Forest Western Area Sierra Leone Using Remote Sensing and Satellite Imagery.
		Tengku Shilatul Hirwany bt Tengku Mahassan	Assessment of Energy Consumption Masterskill University College of Health Sciences (MUCH).
		Nurul Izzati bt Mohd Zaki (GS28060)	Public Perception and Awareness of Urban Noise Pollution in Selangor, Malaysia.
		Mohd Najib Esa	Fisherman's Perception on the Factors Affecting the Reduction in Landing of Udang galah ( <i>Macrobrachium rosenberghii</i> D Man) in Ladang Nam Heng Jetty, Johor River.
	2009/2010	Low Chang Heng	Assessment of Thermal Comfort in Air-Conditioned Classrooms.
		Susilawati bt hj Ramli	Assessment on Putrajaya's River and Lake Water Quality.
		Low Chiang Heng	Assessment of Thermal Comfort in Air-Conditioned Classroom.

	2008/2009	Nicholas Cheong Chee Yin	Power Generation With Palm Oil Mill Effluent opportunity, viability and constraint.
		Nor Aslina Binti Abd Jalil	Emission Inventory: Industrial Emission of SO <sub>2</sub> in Klang, Selangor.
		Haslina Mansor	Prediction of Sulphur Dioxide Emission from The Industrial sector in Shah Alam using Integrated Models-3 System (MM5-Smoke-CMAQ).
		Nor Aslina Bd. Jalil	Emission Inventory industrial Emission of SO <sub>2</sub> in Klang, Selangor.
		Engku Nor Azura Aini Binti Engku Mustaffa	Home Composting: Relationship Between Level of Knowledge and Waste Reduction Behavior.
	2004/2005	Hafsah Binti Kastu	Rearing System, Animal Husbanday and the Chicken Manure Management: Case Study of Pontian Chicken Farms.

vi. **Main Supervisor: Final Year Student's Project for Program B.Sc (Environment)**

<b>Year: 2010/2011</b>	<b>Name</b>	<b>Project Title</b>
1.	Lim Ai Phing	Monitoring ozone concentration in Klang valley using passive sampler
2.	Mohd Hafifi Mat Nazir	Charaterization in fine pariculate matter pm2.5) at Sri Serdang industrial area
3.	Mohd Izmir Bin Nasharuddin	Milky Stork ( <i>mycteria cyneria</i> ) Population in Kuala Gula Bird Sanctuary
4.	Norhayati Hamdan	Impact of water pollution on coastal natural resources at kuala gula
5.	Nur Na Illah Sallih Udin	The Correlation of Climate Change to the Distribution of Migratory Birds in Kuala Gula Perak
6.	Zakirah Saad	Dispersion of PM <sub>10</sub> Emission From Anthropogenic Sources in Penang Using Industrial Source Complex Short-Term Model (ISCT3).
<b>Year: 2009/2010</b>	<b>Name</b>	<b>Project Title</b>
1.	NorainBintiAbd Karim	Expert System for Effects and Control Methods for Human Exposure Towards Turpentine
2.	Nur Asma Binti Abd Wahab	Determination of Normalized Difference Vegetation Index by Using Multispec
3.	Zulhimi bin Zakaria	Analysis of Carbon Dynamic in Tropical Forest Sungai Tekala Recreational Forest, Semnyih, Selangor
4.	Akmal Azfar Bin Abd Mutalib	A study on Plastic Management in Hulu langat District
5.	Nur Liyana Aris	Modeling the Impact of Ozone in Klang Valley Using Integrated Model MM5/SMOKE/CMAQ



<b>Year: 2008/2009</b>	<b>Name</b>	<b>Project Title</b>
1.	Nurfetri Sabrina Binti Mohd Sabri	Carbon Dioxide Emission From Energy Consumption (Electricity) in UPM
2.	Norhayati Hamdan	Evaluation of Nitrogen Dioxide (NO <sub>2</sub> ) in Klang Using Passive Samplers
3.	Intan Shafeenar Bt Ahmad Mohtar	Emission Inventory from Road Network
4.	Nur Haryaty Shazleen Binti Zulkefley	Thermal comfort in Putrajaya
<b>Year: 2007/2008</b>	<b>Name</b>	<b>Project Title</b>
1.	Kang Tzyy Wei	Thermal Comfort of Shah Alam
2.	Ching Yap Siew @ Ching Siew Chin	Evaluation of Atmospheric Pollution from Transportation Sector in Shah Alam
3.	Khairino Farhadi bin Khairulanuar Bashah	Perception of Environmental Hazards in Terengganu
4.	Lee Yun Xin	Comparative Study on Effectiveness of Chlorine and Bromine in UPM 's Swimming Pool water treatment
5.	Nur Afida Hashim	Effects of Air Pollution from Industrial Activities on Air Quality in Shah Alam
6.	Rolyn Anak Terrance Janting	Estimation of air pollutants emission from a traffic road link in Klang, Selangor Darul Ehsan, Malaysia
<b>Year: 2006/2007</b>	<b>Name</b>	<b>Project Title</b>
1.	Abdul Rahim bin Mohd Yusoff	Students preference for interpreting environmental awareness messages
2.	Fazlyzan Abdullah	Soils Carbon Budget of Tropical Forests in Peninsula Malaysia
3.	Imtyaz Mohd Azzat	Impact of Climate Change on the Coastal Ecosystem of Tioman Island
4.	Lau Huan Ping	Fertilizer Applied to Soil to minimize Pollution and maximize Yield
5.	Lim Sim Yi	Effects of Chicken Manure Application in Growth Performances and Nutrient Composition of Agricultural Crops
6.	Teo Lay Chin	Demand, Supply and Application of Chicken Manure on Vegetables
<b>Year: 2005/2006</b>	<b>Name</b>	<b>Project Title</b>
1.	Chua Hun Peng	Study of Dispersion of Sulphur Dioxide (SO <sub>2</sub> ) from Chemical Factory at Penang Using the ISCST 3 Model
2.	Seah Yu Yee	Benzene Emission from 2-Stroke Engine Motorcycle
3.	Khoo Ai Ling	Modelling of Landfill Gases Emission and Dispersion at Air Hitam Sanitary Landfill, Puchong.
4.	Nor Mazalina Mohd Nor	Study on Particulate Matter (PM <sub>10</sub> ) AND Carbon Monoxide (CO) Concentration at Jalan Tun Ismail near Hentian Putra, Kuala Lumpur
5.	Asamuddin Abu Hassan	Study on the Effects of Fertilizer

		Application on Net Photosynthetic Rates, Chlorophyll Content and Leaf Area Index of Oil Palm Saplings
<b>Year: 2004/2005</b>	<b>Name</b>	<b>Project Title</b>
1.	Lee Yen Teng	Characterization of Exhaust Gases Emitted From Cars
2.	Norhisham bin Shamsuddin	Determination of pH and Cations in Rainwater
3.	Siti Nur Surhayani bt Jefri	Acid rain: Determination of Cations and Wasout Effect in Leaves of Meranti
4.	Nadrah Abd. Ghaffar	Composition on Cigarette Smoke and the Effectiveness of Air Freshner in Reducing the Amount of Pollutant
5.	Chai Shann Ing	Evaluation of Kuala Lumpur Air Quality with Special Reference to (PM <sub>10</sub> ) AND Elemental Carbon
6.	Norliyati bt Mohamad	Study of MR219 Cultivar Growth Performances Subjected to Different Nitrogen Contents.
<b>Year: 2003/2004</b>	<b>Name</b>	<b>Project Title</b>
1.	Thia Siau Fan	Effects of Air Pollutants on Urban Tree: A Case Study on Beringin Tree (Ficus Benjamina) ant Taman Tasek Streets, Bangi New Town.
2.	Hilyati Saripudin	Establishment of The Relationship Between Chlorophyll Content And Nitrogen Content of Rice
<b>Year: 2002/2003</b>	<b>Name</b>	<b>Project Title</b>
1.	Shamilah binti Samian	Study on Growth and Physiological Characteristic of Tropical Rain Forest Species Seedling Grown Under Different Light Regime.
2.	Mohd Tarmizi bin Ahmad @ Jusoh	Kajian Terhadap Ciri-ciri Fisiologi dan Pertumbuhan Pokok Tongkat Ali ( <i>Eurycoma longifolia</i> ) Dlam.
3.	Ahmad Zaki bin Zainol Abidin	Pemodelan Kualiti Udara di kawasan Perindustrian
4.	Muhamad Faisal bin Mat Isa	Variasi Persekitaran-mikro di bawah Jambatan
5.	Norhasliha Bt Zulkifly	Sifat-sifat Tanah bagi Pertumbuhan Tongkat Ali <i>Eurycoma longifolia</i>
6.	Chong Huey Shien	Air Pollution Mapping at Perai Industrial Zone
7.	Azlina Binti Othman	Kajian kes NO <sub>2</sub> dan SO <sub>2</sub> dan kesan kombinasi antara NO <sub>2</sub> dan SO <sub>2</sub> terhadap Pertumbuhan dan Fisiologi
8.	Sharifah Azlina Binti Ali	Kajian kes NO <sub>2</sub> dan SO <sub>2</sub> dan kesan kombinasi antara NO <sub>2</sub> dan SO <sub>2</sub> terhadap Pertumbuhan dan Fisiologi
9.	Tee Guat Khim	Comparative Study of the Heavy Metal Uptake by Plants Growing Near a Polluted and Unpolluted Area.

10.	Thia Siau Fan	Determination of Toxic Organic Content in Bottled Water
11.	Marliza Bin Zandin	Kajian kes Hujan Asid dan Penyingkiran Elemen dari Daun oleh Spesis Tumbuhan Hutan Tropika
12.	Mohd Azlan b in Pauzi	Carbon sequestration from natural and man-made ecosystem: verification, estimation of the carbon
13.	Tg. Nor Hafizah binto Tg. Awang @ Tg. Ismail	Study on Plant and Soil Water Potential in Sungai Lalang Watershed
14.	Mohamad Zuwairi Bin Md Noor	Persepsi penduduk Setempat Terhadap Kesyakan Lalulintas di Sg. Ramal
15.	Wan Nazrul Safri bin Kamarul Baharin	The study of Soil Respiration of Sungai Lalang Reserve Forest with Open Sytem
16.	Wan Hafizan Wan Razali	Photosynthehsis of Rice (MR84) Undr Ultra Violet Condition.
<b>Year: 2001/2002</b>	<b>Name</b>	<b>Project Title</b>
1.	Norwatihazlin binti Abd. Wahab	Kajian ke atas kesan Hujan Asid Terhadap Spesis Tumbuhan Tropika Terpilih
2.	Sila Zarina binti Sulaiman	Perbandingan kadar Fotosintesis dan Transpirasi <i>Acacia mangium</i> Willd. Antara kawasan Bekas Tapak Pelupusan Sampah dan Kawasan Hutan.
3.	Nur Salwanie Mohamed Resali	Air Pollution Modeling in Sabak Landfill, Kota Bharu, Kelantan.
4.	Mohammad Faisal Mat Isa	Study on Light Variation Under tropical Forest Canopy
<b>Year: 2000/2001</b>	<b>Name</b>	<b>Project Title</b>
1.	Nazirah bt Hamid Gul	Pengurusan guna tanah di Jinjang
2.	Nor Hashimahwah bt Mohd Yusof	Hakisan Tanah
3.	Nur Salwanie bt Mohd Resali	Perbandingan Kesan Toksikologi ke atas Tumbuhan dengan Manusia
4.	Safian bin Saidun	Penggunaan Multimedia dalam penyampaian maklumat alam sekitar
5.	Shila Zarina bt Sulaiman	Mengkaji dan Mengetahui Keberkesanan Program Kitar Semula yang diperkenalkan oleh Kementerian Perumahan dan Kerajaan Tempatan
6.	Mohd Shamsul Mohd Osman	Cuaca Mikro di Hutan Bakau, Trong, Perak Darul Ridzuan/Kitar Semula (Tahap Kefahaman Mengenai Kitar Semula di Kalangan Penduduk Luar Bandar)

**vii. Main Supervisor: Final Year Student's Project for Program Bachelor of Environmental Science and Technology**

<b>Year: 2015/2016</b>	<b>Name</b>	<b>Project Title</b>
1.	Fong Chng Saun	Delineation of the Flood Vulnerability Map to Assess the Severity of the December 2014 Flood Event in Kelantan, Malaysia

2.	Norsyazwani binti Abdul Samad	Flood Aftermath Community's Trust Towards Government in Kelantan
3.	Haifa Husna	Determination of Worriness Among the post-flood victim in Kelantan towards the future flood or other disaster.
<b>Year: 2014/2015</b>	<b>Name</b>	<b>Project Title</b>
1.	Nur Afifah Izati Binti Mohd Sharif	Determination of Heavy Metals on Suspended particulate Matter (PM <sub>10</sub> ) induced from Traffic At Shah Alam Selangor
2.	Mohd Norakmal bin Nordin	Assessment of Vehicle Pollution in North Campus, Universiti Putra Malaysia by Using CALINE Ver 4. Model
3.	Effa Nadia binti Mohd Nasir	Environmental Factor and Canopy Cover Impact on Total CO <sub>2</sub> Efflux in Palm Oil Field
4.	Nurlina Ridwan	Efficiency of Sugar Cane Bagasse as Noise Absorber
5.	Fatimatuzzahrah Binti Buang	Audit Electrical Appliances in Faculty of Environmental Studies, UPM
<b>Year: 2013/2014</b>	<b>Name</b>	<b>Project Title</b>
1.	Melawani Othman	Study of Chemicals and metal ions properties of water catchment in UPM & establishing the WQI
2.	Siti Najihah binti Che Saad	Determination of Heavy Metal in UPM's Surface Water for Water Quality Management
<b>Year: 2012/2013</b>	<b>Name</b>	<b>Project Title</b>
1.	NorFadilah binti Aini	Emission of Particulate Matter (PM <sub>10</sub> ) from Road Traffic of Kajang Silk Highway to Ambient Air in Balakong
2.	Siti Faizzah Bin Sani	Soil Respiration in Secondary tropical Forest
3.	Nor Adawiyah binti Che Hasan	Assessment of Plant Moisture Stress Subjected to Different Water Region
4.	Lui Wen Leong	Prediction of Sulphur Dioxide (SO <sub>2</sub> ) Dispersion from Anthropogenic Sources in Hulu Langat District Using Industrial Source Complex Short Term (ISCST3) Model
5.	Sumayyah Bt Abdul Haris	Prediction of Sulphur Dioxide Dispersion From Anthropogenic Sources in Klang 2011 using ISCST3 Modelling System
<b>Year: 2011/2012</b>	<b>Name</b>	<b>Project Title</b>
	Lau Hong Peng	Kajian Kesan baja artifisial dan organik terhadap pertumbuhan tanaman
	Lim Sim Yee	Chicken Manure Application on Agricultural Crops

viii. **Co-Supervisor: Final Year Student's Project for Program Bachelor of Environmental Science and Technology**

Year: 2015/2016	Name	Project Title
	Munira binti Basuni	Community Preparedness Towards Flood in Kelantan
	Nur Nabilah Roslan	Intention of Post Flood,Victims in Kelantan to Relocate After the Flood Disaster
Year: 2008/2009	Name	Project Title
	Shalini Noorkarajoo	Inventori of Carbon Content in Sg.Karang Peat Swamp ForestReserve,Sekinchan, KualaSelangor

**7. PUBLICATION: JOURNALS**

**i. Journals**

1. Mohd Asrul Jamalani, **Ahmad Makmom Abdullah**, Azman Azid, Mohammad Firuz Ramli, Mohd Rafee Baharudin, Mahmud Mohammed Bose, Rashieda Elawad Elhadi, Khaleed Ali Ahmed Ben Youssef, Azadeh Ghadimzadeh, Danladi Yusuf Gumel (2016). Monthly Analysis of PM<sub>10</sub> in Ambient Air of Klang Valley, Malaysia. *Malaysian Journal of Analytical Science*. Vol. 20, No. 5 (2016): 1159 – 1170. DOI: <http://dx.doi.org/10.17576/mjas-2016-2005-23>.  
**Scopus, Impact Factor (0.1)**
2. Amanollahi, J., Tzanis, J.C., Ramli, M.F., **Abdullah, A.M.** (2016). Urban Heat Evolution in a Tropical Area Utilizing Landsat Imagery. *Atmospheric Research* 167 (2016). 175–182.  
**(Thomson ISI Indexed, Q1, Impact factor 3.377)**
3. Mande, Kato Hosea, **Abdullah, Ahmad Makmom**. Zaharin, Ahmad Aris, Ainuddin, Ahmad Nuruddin, Ghadimzadeh, Azade, Asgari, Nazanin, Nghai Ezekiel Sulemane, Kasham J. Shamang (2016). Comparison of Soil CO<sub>2</sub> Efflux in Tropical Forests of Different Ages, Peninsular Malaysia. *International Journal of Agriculture, Forestry and Plantation*, Vol. 2 (February.)130-145.  
**(Refereed Non-Cited)**
4. Farzanmanesh, R., Latiff, M.T., **Abdullah, A.M.** (2016). Modeling of Soil Organic Carbon in North and Northeast of Iran Under Climate Change Scenarios. *Scientia Iranica*. Special Issue on “Resilient Cities”.  
**(Thomson ISI Indexed, Q3, Impact factor 0.83)**
5. Fadel Mohamed Binyehmed, **Ahmad Makmom Abdullah**, Zulkarnain Zainal, Rusniza Mohd Zawawi and Rashieda Elawd Elhadi Elawad(2016). Trend and Status of SO<sub>2</sub> Pollution as a Corrosive Agent at Four Different Monitoring Stations in the Klang Valley, Malaysia. *International Journal of Advanced Scientific and Technical Research*. Issue 6, Volume 3, May –June 2016. 302-317.  
**(Refereed Non-Cited)**
6. Khaled Ali Ahmed Ben Youssef , **Ahmad Makmom Abdullah**, Helmi Zuhaidi Mohd Shafri, Zulfa Hanan Ashaari, Danladi Yusuf Gumel, Sara Yasina Yusof(2016). Estimation of

Aerosols Dispersion & Urban Air Quality Evaluation over Malaysia using MODIS Satellite. *International Journal of Advanced Scientific and Technical Research*. Issue 6, Volume 3, May –June 2016. 229-238.

(Refereed Non-Cited)

7. Rasheeda E. Elhadi, Ahmad Makmom Abdullah, Abdul Halim Abdullah, Zulfa Hannan Ash'aari, D.Y. Gumel, Fadel, M. Binyehmed (2016). Identification of Heavy Metals in Particulate Matter PM10 of Traffic Area, Cherass, Malaysia. *Environment and Ecology*. Vol 34, Number 4. Pp 1731-1737.

(Refereed Non-Cited)

8. Danladi Yusuf Gumel, Ahmad Makmom Bin Abdullah, Mohammad Rosli Bin Ya'cob, Alias Mohd Sood. (2016). A Status Quo Review of Approach, Method, and Empirical Studies on Assessing the Impacts of Climate Change Variability on Agriculture. *Journal of Agriculture and Environmental Sciences*. June 2016, Vol. 5, No. 1, pp. 1-13.

(Scopus)

9. Olaniyi, A.O, Ajiboye, A.J., **Abdullah, A.M.**, Ramli, M.F. and Sood, A.M. (2015). Agricultural Land Use Suitability Assessment in Malaysia. *Bulgarian Journal of Agricultural Science*, 21 (No 3) 2015.pp 576-588.

(Scopus)

10. Ghadimzadeh, A., **Abdullah, A.M.**, Mande, K.H., Asgari, N., Shamsipour, R., Askari, A, Narany, T.S.(2015). Review on CO<sub>2</sub> Emission from Transportation Sector in Malaysia. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* e-ISSN: 2319-2402,p- ISSN: 2319-2399. Volume 9, Issue 5 Ver. I (May. 2015), pp 61-70.

(Refereed Non-Cited)

11. Musa, H.D., Mohd RusliYacob, **Abdullah, A.M.**, Ishak, M.Y. (2015). Delphi Method of Developing Environmental Well-being Indicators for the Evaluation of Urban Sustainability in Malaysia. International Conference on Environmental Forensics 2015 (iENFORCE2015). *Procedia Environmental Sciences*. 30 ( 2015 ) 244 – 249.

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12. Hairul Nazmin Nasruddin, Azman Azid, Hafizan Juahir, **Ahmad Makmom Abdullah**, Mohammad Azizi Amran, Ahmad Dasuki Mustafa, Fazureen Azaman. (2015). NO<sub>x</sub> Emission Modelling from Industrial Steam Boiler. *Jurnal Teknologi*.76:1 (2015) 115–123.

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13. Azadeh Ghadimzadeh, **Abdullah Ahmad Makmom**, John Chng, Arameh Askari, Tahoora Sheikhy Narany, Jamalani Mohd Asrul, Rasheida E. Elhadi, DanladiYusuff Gumel, Marzieh Fallah (2015). CO<sub>2</sub> Emission Inventory of on-road Vehicles in Selangor State in Peninsular Malaysia. *International Journal of Advanced Scientific and Technical Research*. Issue 5, Volume 7. 1-9.

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14. Mande, Kato Hosea, **Abdullah, Ahmad Makmom**, Nuruddin, Ahmad Ainuddin, Bose, Mahmud Mohammad, Binyehmed, Fadel Mohamed, Ben Youssef, Khaleed Ali Ahmed, Gabriel Emmanuel (2015). Forest Recovering and Soil Respiration Rate. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)*. e-ISSN: 2319-2402,p- ISSN: 2319-2399. Volume 8, Issue 12 Ver. IV (Dec. 2014), PP 44-49.

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15. Hosea Kato Mande, **Ahmad Makmom Abdullah**, Ahmad Zaharin Aris, Ahmad Nurudin Ainuddin (2015). Factors responsible for spatial and temporal variation of soil CO<sub>2</sub> efflux in a

50 year recovering tropical forest, Peninsular Malaysia. *Environmental Earth Sciences*. Volume 73. Issue 9. 5559-5569.

(Thomson ISI Indexed, Q3, Impact factor 1.765)

16. Azadeh Ghadimzadeh, **Ahmad Makmom Abdullah**, Saari Mustapha, Sabrina Ho Abdullah Arameh Askari, Loi Kok Chng, Tahura Sheykhi Narani, R.Shamsipour (2015). Highlighting of the factors, interventions and policies affecting co2 emissions level in Malaysian Transportation Sector. *International Journal of Advanced Scientific and Technical Research*. Issue 5, volume 7. 1-9. 198-213.

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17. Mande, Kato Hose, **Abdullah, Ahmad Makmom**, Aris, Ahmad Zaharin, Nuruddin, Ahmad Ainuddin, Liang, Naishe, Mahmud, Bose Mohammad and Gabriel, Emmanuel (2015). Influence of Monsoon Regime and Microclimate on Soil Respiration in the Recovering Forests of the Tropics. *International Academic Journal of Empirical Research*. Vol., Issue 1. Pp 48-63.

(Refereed Non-Cited)

18. Gumel D.Y., M.M. Bose, **A.M. Abdullah**, R. Harun (2015). Determinant of Farmers' Adaptation to Climate Change: Evidence from the Semi-arid Zone of North-eastern Nigeria. International Conference on Environmental Forensics 2015 (iENFORCE2015). *Procedia Environmental Sciences*, 30 (2015), 244 – 249.

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19. Mohd Asrul Jamalani, **Ahmad Makmom Abdullah**, Mohammad Firuz Ramli, Mohd Rafee Baharudin (2015). Spatial-temporal of Monthly PM10 in ambient air of Klang Valley, Malaysia. International Conference on Environmental Forensics 2015 (iENFORCE2015). *Procedia Environmental Sciences*, 30 (2015), 244 – 249.

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(Thomson ISI Indexed, Q3, Impact factor 1.692)

22. Marzieh Fallah, **Abdullah Ahmad Makmom**, Azlizam Aziz, Bose M.M., Abdullahi Adamu, Mazlina J., Mande Hosea, Azadeh Ghadimzadeh, Shadi K.M. (2014). A Fuzzy Analytic Hierarchy Approach for Ranking and Prioritizing Sustainability Criteria and Indicators of Ecotourism Management. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* e-ISSN: 2319-2402, p- ISSN: 2319-2399. Volume 8, Issue 12 Ver. IV (Dec. 2014), PP 64-73.

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23. Mande K. H, **Abdullah A. M.**, Zaharin A.A., Ainuddin A.N (2014). Drivers of Soil Carbon Dioxide Efflux in a Post Monsoon Regime of 70 years Mixed Trees Species, Tropical Lowland Forest Peninsular Malaysia. *Sains Malaysiana*, 43 (12) 1843-1853.

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24. Bose, M. M., **Abdullah A. M.**, Harun, R, Jamalain, M. A. (2014). Perception of an adaptation to Climate Change by Formers in the Semi-arid Zone of North-eastern Nigeria. *IOSR Journal of Environmental Science, Toxicology and Food Technology*, 8 (11), 52-51.  
(Refereed Non-Cited)
25. Nurul Hassan, Shamsul Tamrin, Sharifah Ismail, **Ahmad Makmom Abdullah** (2014). The Evaluation of Heat Stress on Steel Mill Workers through Monitoring of Environmental and Acute Physiological Changes. *Advance in Environmental Biology*. 8(15) Special 2014. 177-183.  
(Thomson ISI Indexed. Impact factor 2.726)
26. Mande K.H and **Abdullah A. M.** (2014). A Comparison Of Soil CO<sub>2</sub> Efflux Rate in Young Rubber Plantation, Oil Palm Plantation, Logged-Over and Primary Forest Ecosystems of Tropical Forest of Pasoh, Peninsula Malaysia. *Pol. J. Environ. Stud. Vol. 23, NO. 5.* 1649-1657.  
(Thomson ISI Indexed. Impact factor 0.871)
27. Nurashida Saad, Ahmad Makmom Abdullah, Hafizan Juahir, Rosta Harun (2014). Contribution Fuel Consumption of Fishing Vessel Operation to Greenhouse Gas Emission. *From Source to Solution* (p). Springer New York p. 343-346.  
(Scopus)
28. Mande K. H, **Abdullah A. M.**, Zaharin A.A., Ainuddin A.N. (2014). Factors Responsible For Monthly Variation of Soil CO<sub>2</sub> Efflux in a 50-years Recovering Tropical Forest, Peninsular Malaysia. *Environmental Earth Science*. May 2015, Volume 73, Issue 9, pp 5559–5569.  
(Thomson ISI Indexed. Impact factor 1.765)
29. Mande, Kato. Hosea, **Abdullah Ahmad Makmom**, Aris, Ahmad Zaharin, Ainuddin, Ahmad Nuruddin, Binyemed, Fadel Mohamed, Ben Youssef, Khaleed Ali Ahmed (2014). Forest Logging and It Impact on Soil Carbon Dioxide Efflux in the tropical Forest, Peninsular Malaysia. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* e-ISSN: 2319-2402, p- ISSN: 2319-2399. Volume 8, Issue 12 Ver. II (Dec. 2014), PP 69-77.  
(Refereed Non-Cited)
30. Mande K. H., **Abdullah A. M.**, Zaharin A.A., Ainuddin, A.N (2013). Soil Carbon Dioxide Efflux and Atmospheric Impact in a 10 years Dipterocarpus Recovering Lowland Tropical Forest, Peninsular Malaysia. *IENFORCE* (Ed.). *From Source to Solution* (p). Springer New York p.165-169.  
(Scopus)
31. Olaniyi, A. O., Abdullah, M.A., Ramli, M.F., Alias, M.S., (2013). Agricultural Land Use in Malaysia: an Historical Overview and Implication for Food Security. *Bulgarian Journal of Agricultural Research* 19. pp 1-6.  
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  13. M.B. Awang, **Mohd Kamil Yusoff**, H. Juahir and **A.M. Abdullah**. (2006). Environmatics: Application of mathematical approach into environmental systems. *National Conference on Mathematical Biology 2006*. Residence Hotel, Bangi. 22-23 August 2006.
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  15. **Ahmad Makmom, A.**, MohdKamil, Y., Hilyati, S., NurulSuliana, A.H. and Shamsudin, J. (2005). Assessment of Gap and Understorey Microclimates of Sungai Bebar Peat Swamp Forest, Pekan, Pahang for Potential Monitoring of Ecosystem Changes. In:*Summary Findings, PSF Technical Series No.4, Kepong: Peat Swamp Forest project, UNDP/GEF Funded*.
  16. **Abdullah A.M.**, N.S.A Hazemi, S. A. Ali, M. Ismail, H.Saripudin, (2005). Air Quality Trend in Northern Region of Peninsular Malaysia. *Proceeding of The Malaysian Science and Technology Congress 2004*, Cititel Hotel, MidValley, Kuala Lumpur. 18-20<sup>th</sup> April 2005.
  17. **Abdullah, A.M.**, N.S.A. Hazemi, Abdullah, R., Abd. Kadir, K.Z. and Ismail, M. (2005). Predicting Air Pollution Dispersion from Resource Recovery Centre-Waste to Energy (RRC-WtE) Plant Using Air Pollution Model. *Proceeding of The Second Seminar of JSPS-VCC Group 7 in 2005*, at Ritsumeikan University, Shiga, Japan. 111-120.
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  19. Mohd Kamil, Y., **Ahmad Makmom, A.**, Abdul Rashid, H., Nur Aina, K., Mohd Zamani, I., Nurhafiza, M.D. and Zurina, M. (2005). River Water Quality Assessment (Using DOE-WQI) of Sungai Bebar, Pekan Forest Reserve, Pahang. In: *Summary Findings, PSF Technical Series No.4, Kepong: Peat Swamp Forest Project, UNDP/GEF Funded*.
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21. **Ahmad Makmom**, A. Muhamad and A. Furukawa (2000). Estimation of Carbon Gain Utilizing the Light Availability and Photosynthetic Light Response of Tropical Forest Species. Proceedings of the *Fourth Conference on Forestry and Forest Products Research*. FRIM, Kepong, Malaysia, 236-246 pp.
22. Awang, M.B., **Abdullah, A.M.**, Hassan, M.N. and M.K. Yusoff (2000). Smoke Emission from 1997 Forest Fires in Southeast Asia (2000). *XXI IUFRO World Congress 2000*, Vol. 1, 164-173 pp.
23. Awang, M.B., **A.M. Abdullah** and S. Johan (2000). CO<sub>2</sub> Profiles in Coastal Mangrove Forest and Pasoh Forest Reserve. *XXI IUFRO World Congress 2000*, Vol. 3 (354). (Abstract).
24. Awang, M.B., **A.M. Abdullah** and S. Johan (2000). Effects of CO<sub>2</sub> Enrichment on Gas-Exchange of Tropical Hardwood and Pioneer Species Seedlings Grown Under Low and High Light Intensities. *XXI IUFRO World Congress 2000*, Vol. 3 (354), 7-12 August 2000 (Abstract).
25. Muhamad, R., Hee. Y.S., **Abdullah, A.M.** and Awang. M.B. (2000). Effects of different light intensities and damage caused by mirids on cocoa photosynthesis. *13<sup>th</sup> International Cocoa Research Conference*, 9-14 October 2000, Kota Kinabalu, Sabah, Malaysia.
26. Abdullah, A.M., M. Ismail and A.C. Tay (2000). The Role of Plant in Landscapes. *National Horticulture Conference 2000 (Landscape Horticulture)*. Equatorial Hotel, Bangi, Selangor Darul Ehsan, 26-28 September 2000.

## ii. Technical Reports

1. **Ahmad Makmom Abdullah**, Tengku Hanidza Tengku Ismail, Lim Sze Fook, Hafizan Juahir (2015). Inception Report on “A study to formulate an Ambient Air Quality Standard for Hydrogen Cyanide for Gold Mining and Gold Processing Activities”. The report submitted to Department of Environment, Malaysia.
2. **Ahmad Makmom Abdullah**, Tengku Hanidza Tengku Ismail, Lim Sze Fook, Hafizan Juahir (2015). Final Report on “A study to Formulate an Ambient Air Quality Standard for Hydrogen Cyanide for Gold Mining and Gold Processing Activities”. The report submitted to Department of Environment, Malaysia.
3. Environmental Impact Assessment (EIA) Report of the “Proposed Technical Feasibility Studies of Malaysia Defence and Security Technology Park”, Mukim Sungkai, Daerah Batang Padang, Perak. (Air Quality and Air Pollution Section). Submitted to Masterplan Consulting Sdn. Bhd. (2011).
4. Environmental Impact Assessment (EIA) Report of the “Proposed New Road from Kota Bharu to Kuala Krai, Kelantan. (Air Quality and Air Pollution Section). The report submitted to Padang Maju Sdn. Bhd. (2007).
5. Environmental Impact Assessment (EIA) Report of the “Proposed Coated Duplex Board Manufacturing Plant, Bentong, Pahang. (Air Quality and Air Pollution Section). The report submitted to CHH Pacific Paper Sdn. Bhd. (2007).

6. Environmental Impact Assessment (EIA) Report of the “Proposed Pulau Banding Development, Perak. (Air Quality and Air Pollution Section). Submitted to EMKAY Sdn. Bhd. (2008).
7. Detailed Environmental Impact Assessment (EIA) Report of the “Proposed Resource Recovery Centre/Waste to Energy (RRC/WTE) Plant in Mukim Semenyih, Hulu Langat, Selangor. (Air Quality and Air Pollution Section). Submitted to Recycle Energy Sdn. Bhd. (2004).
8. Reports on Investigation and Assessment of Municipal Landfill Sites in the Federal Territory of Kuala Lumpur. Vol. 1 and Vol. 2 (2000). (Section on Air Quality and Air Pollution). Submitted to Department of Environment. Malaysia.
9. Kassim, A.R., Nik, A.R., **A.M. Abdullah**, T. Toma and S.K. Yap, Y. Matsumoto, Y. Maruyama, A. Uemura (1994). Understanding the role of tropical forest in climate change through the energy/H<sub>2</sub>O/CO<sub>2</sub> exchange process. In: *Progress Report Joint Research Project on Tropical Forest Ecology and Biodiversity 2013*. FRIM, UPM and NIES Joint Research Project.
10. Report of the Inter-laboratory Comparison Project 2006. Acid Deposition Monitoring Network in East Asia (EANET). Network Center for EANET.
11. **Ahmad Makmom Abdullah**, Abdul Rahim Nik, Elizabeth Philip, Marryanna Lion, Siti Aishah Shamsuddin, Mohd Md Sahat (2010). Understanding the Roles of Tropical Forest in Climate Change Through the Energy/H<sub>2</sub>O/CO<sub>2</sub> Exchange Processes. In: *Progress Report Joint Research Project on Tropical Forest Ecology and Biodiversity 2010*. FRIM, UPM and NIES Joint Research Project.
12. **Ahmad Makmom Abdullah**, Abdul Rahim Nik, Elizabeth Philip, Siti Aishah Shamsuddin, Mohd Md Sahat (2011). Understanding the Role of Tropical Forest in Climate Change through the Energy/H<sub>2</sub>O/CO<sub>2</sub> Exchange Processes. In: *Progress Report Joint Research Project on Tropical Forest Ecology and Biodiversity 2011*. FRIM, UPM and NIES Joint Research Project.
13. **Ahmad Makmom Abdullah**, Abdul Rahim Nik, Elizabeth Philip, Siti Aishah Shamsuddin, Mohd Md Sahat (2013). Understanding the Roles of Tropical Forest in Climate Change Through the Energy/H<sub>2</sub>O/CO<sub>2</sub> Exchange Processes-Effect of Inter-Annual Climate Variability on Evapotranspiration and Canopy CO<sub>2</sub> Exchange of a Tropical Rain Forest in Peninsular. In: *Progress Report Joint Research Project on Tropical Forest Ecology and Biodiversity 2013*. FRIM, UPM and NIES Joint Research Project.
14. Ahmad Makmom Abdullah, Ramdzani Abdullah, Loi Kok Chng and Gakuji Kurata. Case Study: Air Quality in Klang Valley, Malaysia. *Group Report on Development of a Long-term Environmental Planning for Local Government:-its Concept and Application. Group VII*. JSPS-VCC Core University Program “Environmental Science” 2000-2009. Sponsored by JSPS-VCC.

<b>9.</b>	<b>CONSULTANCY</b>
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No.	Name	Place	Year	Status
1.	The Study of Ambient Air Quality at	Seberang Prai,	2000	Completed

	Binariang Technical Operation Center (TOC) Seberang Jaya, Pulau Pinang for Binariang (MAXIS)	Penang.		
2.	Intrusive Investigation of An Illegal Dumping Site at Bukit Kapar for JKR	Bukit kapar, Kelang, Selangor	2001	Completed
3.	Investigation of Illegal Dumping Site at Kg. Batu for Department of Environmnet, Malaysia	Kg. Batu, Kuala Lumpur	2002	Completed
4.	Kajian EIA ke atas projek Pembotolan gas di Bukit Kayu Hitam for Kel-Oil Sdn. Bhd.	Bukit Kayu Hitam	2005	Completed
5.	Kajian EIA Keatas Cadangan Pembangunan Ladang Beef Valley di Gemas Negeri Sembilan for Menteri Besar Incorporation, Negeri Sembilan.	Gemas, Negeri Sembilan	2005	Completed
6.	Investigation and Assessment of Municipal Waste Landfill Sites in Federal Territory, Kuala Lumpur for Department of Environment, Ministry of Science, Technology and Environment.	Federal Territory, Kuala Lumpur	1998/1999	Completed
7.	Preparation of development Strategic Plan for Kelantan State (Environmental Sector) for Unit PerancangEkonomiNegeri (UPEN) Negeri Kelantan	Kelantan	1998/1999	Completed
8.	DEIA Study of The Proposed Resource Recovery Centre/Waste to Energy (RRC/WTE) Plant in MukimSemenyih, Hulu Langat, Selangor.	Semenyih, Hulu Langat, Selangor	2003-2005	Completed
9.	EIA Study of The proposed New Highway from Kota Bharu to Kuala Krai, Kelantan for Padang MajuSdn. Bhd.	Kota Bharu to Kuala Krai, Kelantan	2006/2007	Completed
10.	EIA of The Proposed Technical Feasibility Studies of Malaysia Defense and Security Technology Park, MukimSungkai Perak for Masterplan Consulting Sdn. Bhd.	Sungkai, Perak	2011/2012	Completed
11.	EIA Study of The Proposed Coated Duplex Board manufacturing Plant, Bentong, Pahang for CHH pacific paper Sdn. Bhd.	Bentong, Pahang	2006/2007	Completed
12.	DEIA Study of The Proposed Pulau Banding Development, Perak for EMKAY Sdn. Bhd.	Pulau Banding, Perak	2007/2008	Completed
13.	A Study to Establish Ambient Air Standard for Hydrogen Cyanide from Gold Mining and Processing Activities For Department of Environment, Malaysia	Penjom Gold Mines, Pahang	2015	Completed
14.	EIA untuk Cadangan Pelan Konsep Bagi Pembangunan Ladang Beef Valley di atas Hutan Simpan Gemas Mukim Gemas, Daerah Gemas, Negeri Sembilan Darul Khusus for MBI and Vet-Fine Sdn. Bhd.	Hutan Simpan Gemas Mukim Gemas, Daerah Gemas, Negeri Sembilan Darul Khusus.	2005	Completed
15.	Environmental Monitoring in Putrajaya (Precint 15 and 17). Cypark Sdn. Bhd. (RM 36,000.00)	Putrajaya	2005-2006	Completed

## 10. CONFERENCE/SEMINAR/COURSES

1. **Participant:** Negotiation Skill Enhancement Course: How to negotiate and get the result you desire. Seksyen Latihan Pejabat Pendaftar, UPM. Dewan Osh, Pejabat Pengurusan Keselamatan dan Kesihatan Pekerjaan. 12<sup>th</sup> October 2015.
2. **Participant:** Bengkel Penulisan e-Book Daripada Tesis Projek Tahun Akhir, Makmal Kuantitatif, FPAS. Universiti Putra Malaysia. 12-13<sup>th</sup> November 2015.
3. **Participant:** Bengkel socioeconomics and environmental impacts of urban agriculture practices. Dewan Pertanaian. Organised by Fakulti Pertanian Fakulti Petanian. 29<sup>th</sup> October, 2015.
4. **Panel Expert:** Seminar Stakeholder Bagi Projek Kajian Semula Indeks Pencemar Udara (IPU) dan Projek Kajian Pencemaran Ozon di Malaysia. Palm Garden Hotel IOI Resort Putrajaya. Organised by Department of Environment. 15<sup>th</sup> October 2015.
5. **Speaker:** Seminar Kesedaran Kualiti Udara. Dewan Taklimat. Organised by Fakulti Pengajian Alam Sekitar. Universiti Putra Malaysia. UPM. 11<sup>th</sup> November 2015.
6. **Participant:** Continuous Quality Improvement (CQI) Report Writing Workshop for Course Outcome (CO) and Programme Outcome (PO) from Program Output Summary Evaluation (POSE). Center for Academic Development (CADE), Putra Learning Space, UPM. 23<sup>rd</sup> October, 2015.
7. **Participant:** Stakeholders Seminar for Revised Air Pollutant Index Project and Ozone Pollution Study Project in Malaysia. Palm Garden Hotel, IOI Resort, Putrajaya. Organised by Department of Environment (DOE), Malaysia. 15<sup>th</sup> October 2015.
8. **Participant:** Workshop on Mapping and Achievement CO-PO Semester 2 Session 2014/2015. Makmal Kuantitatif 1, Faculty of Environmental Studies. 21<sup>st</sup> September 2015.
9. **Project Leader:** Kajian Bencana Banjir 2014. Kementerian Pendidikan Tinggi, Universiti Teknologi Malaysia. 14-15<sup>th</sup> September 2015.
10. **Chairperson:** International Conference on Environmental Forensic 2015 (iENFORCE 2105). Putrajaya Marriot Hotel. Organized by Faculty of Environmental Studies, Universiti Putra Malaysia. 19 & 20<sup>th</sup> August 2015.
11. **Participant:** Workshop on Curriculum, Department of Environmental Science, Faculty of Environmental Studies, Universiti Putra Malaysia, Bilik Sidang Utama. 12<sup>th</sup> -13<sup>th</sup> February 2015.
12. **Participant:** Workshop on Teaching Plan, Department of Environmental Science, Faculty of Environmental Studies, Universiti Putra Malaysia, Makmal Kuantitatif. 9<sup>th</sup> February 2015.
13. **Participant:** Workshop on Restructuring Master of Environment Program, Faculty of Environmental Studies, Universiti Putra Malaysia, Makmal Kuantitatif. 4<sup>th</sup> and 5<sup>th</sup> February 2015.
14. **Invited Speaker.** Enviropoly Research Seminar 2015.National Level (Middle Zone). Politeknik Sultan Idris Shah, Kementerian Pendidikan Malaysia. 1-8<sup>th</sup>May, 2015.

15. **Review Panel.** Enviropoly Research Seminar 2015. National Level (Middle Zone). Politeknik Sultan Idris Shah, Kementerian pendidikan Malaysia. 1-8<sup>th</sup> May, 2015.
16. **Paper Presentation.** Bengkel 1, Kajian Bencana Banjir 2014. Progress Report on Resilience, Vulnerability and Adaptive Capacity Assessment of East Coast Communities in Malaysia to Flood. The Everly Hotel Putrajaya. Organised by Ministry of Higher Education (KPT), Universiti Teknologi Malaysia (UTM) and Center for Environmental Sustainability and Water Security. 14-15<sup>th</sup> September 2015.
17. **Paper Presentation:** Seminar Presentation of Research Outcomes of Ambient Air Standard Establishment for Hydrogen Cyanide Parameter (HCN) from Gold Mining and Gold Processing Activities. Prima Land, Port Dickson Resort and Convention Center, Port Dickson, Negeri Sembilan. Organised by Department of Environment. 16<sup>th</sup> November 2015.
18. **Speaker:** Global Environmental Problem and Climate Change. Diploma in Diplomacy (DID) Course/Program. Institute of Diplomacy and Foreign Relation. Ministry of Foreign Affairs, Malaysia. 30<sup>th</sup> June 2015.
19. **Speaker:** Waste Management Awareness Program. Kongkong Laut, Masai, Johor. Co-organized by Faculty of Environmental Studies (UPM) and Koperasi Nelayan Kongkong Laut. 15<sup>th</sup> November 2015.
20. **Participant.** World Meteorological Organization's Global Atmospheric Watch Urban Research Meteorology and Environment Regional Workshop for Asean Countries (WMO GURME for Asean), Department of Meteorology Malaysia, Petaling Jaya. 7-10<sup>th</sup> April, 2015.
21. **Co-Author:** Olayani Akeem **Ahmad Makmom Bin Haji Abdullah** Alias Mohd Sood, Adegbite Bashiru Adeniyi, Ajiboye John Akinyele, Mohammad Firuz Bin Ramli. Hotspot Of Agricultural land use change in Selangor, Malaysia Paper presented at Annual World Bank Conference on Land and Poverty 2015: Linking Land Tenure and Use for Shared Prosperity Washington D.C., United States of America. 27<sup>th</sup> December 2015.
22. **Participant:** Bengkel semakan kurikulum Master Environment. Fakulti Pengajian Alam Sekitar. Universiti Putra Malaysia. Avillion Admiral Cove, Port Dickson, Negeri Sembilan. 3-5<sup>th</sup> April 2015.
23. **Participant:** Workshop on Curriculum. Department of Environmental Sciences. Faculty of Environmental Studies. Bilik Sidang Utama, FPAS. 12-13<sup>th</sup> February, 2015.
24. **Participant:** Bengkel Rancangan Pengajaran. Makmal Kuantitatif. Faculty of Environmental Studies. 9<sup>th</sup> February 2015.
25. **Participant:** Workshop on Re-Structuring Master of Environment Program. Makmal Kuantitatif, Fpas. 4-5<sup>th</sup> February 2015.
26. **Speaker:** Seminar Media Capacity Building to Cover Climate Change. Organised by Ministry of Communication and Multimedia at tun Abdul Razak Institute of Broadcast and Information (IPPTAR), Kuala Lumpur. 17 & 18<sup>th</sup> November 2014.
27. **Session Chairperson:** Seminar Media Capacity Building to Cover Climate Change. Organised by Ministry of Communication and Multimedia at tun Abdul Razak Institute of Broadcast and Information (IPPTAR), Kuala Lumpur. 17 & 18<sup>th</sup> November 2014.

28. **Session Chairperson:** Seminar Media Capacity Building to Cover Climate Change. Organised by Ministry of Communication and Multimedia at Tun Abdul Razak Institute of Broadcast and Information (IPPTAR), Kuala Lumpur. 17 & 18<sup>th</sup> November 2014.
29. **Paper Presenter:** Climate Change: Public Perception, Impacts and Adaptation. Paper presented at Seminar Media Capacity Building to Cover Climate Change. Organised by Ministry of Communication and Multimedia at Tun Abdul Razak Institute of Broadcast and Information (IPPTAR), Kuala Lumpur. 17 & 18<sup>th</sup> November 2014.
30. **Participant:** Bengkel Pemurnian Panduan Penyediaan Dokumen Pengajian Program Edisi 2014 Dewan Sri Pulasan, Kolej Keenam. Bahagian Akademik, UPM. 8-9<sup>th</sup> July 2014.
31. **Participant:** Bengkel Inisiatif UPM untuk Data Besar (Big Data) Kelapa Sawit Bilik Seminar. INTELL Pejabat, TNCPI. 7<sup>th</sup> July 2014.
32. **Paper Presenter:** Malaysia Ambient Air Quality Guidelines 2013. National Stakeholder Seminar. Organised by Department of Environment. Putrajaya. 29<sup>th</sup> August, 2013.
33. **Participant.** Training of Trainer on “Regional Climate Change Curriculum Development”. Organised by USAID LEAF. On August 3-8<sup>th</sup>, 2014, Hilton Petaling Jaya, Kuala Lumpur.
34. **Participant.** Capstone Project Workshop. Organised by Center for Academic Development (CADE), Universiti Putra Malaysia. 24<sup>th</sup> April 2014. Al-Farabi Seminar Room, FEM, UPM.
35. **Participant:** Bengkel Semakan Semula Program BSTAS Bilik Sidang Utama , Fpas Fakulti Pengajian Alam Sekitar. 10<sup>th</sup> February 2014.
36. **Participant:** Bengkel Penyelarasan Pelan Tindakan JINM 2014 (Menjajarkan Keperluan Pelan Strategik UPM 2014-2020 dan 'Industry-Community Engagement. A University Framework'. Bilik Kuliah 8 Aras 1 Kompleks Mahasiswa. TNC JINM. 29-30<sup>th</sup> January 2014.
37. **Participant:** Bengkel Pemantapan Sistem Pengurusan Kualiti (SPK) Prasiswazah. Bahagian Akademik UPM. Hotel Marriot Putrajaya. 4-5<sup>th</sup> December 2013.
38. **Session Chairperson:** Mitigation and Adaptation of Global Change. International Symposium on Southern Asian Tropical Rain Forest Research Related With Climate Change and Biodiversity. Co-organized by National Institute for Environmental Studies and Hiroshima University. Tokyo. September 25-26<sup>th</sup> 2012.
39. **Participant:** Bengkel Persediaan Stakeholders Seminar on Revised Malaysia Ambient Air Quality Quidelines. Jabatan Alam Sekitar (DOE). Wisma Sumber Asli, Jabatan Alam Sekitar. 27<sup>th</sup> November 2013.
40. **Participant:** International Conference on Environmental Forensics. Putrajaya, Marriot Hotel Environmental forencis- FPAS. 12-13<sup>th</sup> November 2013.
41. **Participant:** Bengkel Stakeholders Seminar on Revised Malaysian Ambient Air Quality Guidelines 2013 Jabatan Alam Sekitar (DOE). Dewan Baiduri, Jabatan Alam Sekitar. 28<sup>th</sup> August 2013.
42. **Participant:** Bengkel Pembangunan dan Pemurnian Buku Bahan Pengajaran da Pembelajaran Berpusatkan Pelajar (SCL) untuk Bidang Pengajian Alam Sekitar Cade Mahkota, Hotel Melaka. 23-15<sup>th</sup> August 2013.

43. **Participant:** Bengkel Penilaian Geran UPM 2013 Peringkat Fakulti, Bilik Sidang A, FPAS FPAS. 23<sup>rd</sup> August 2013.
44. **Participant:** Leaf Regional Training Workshop on climate Change curriculum Development Lowering Emissions in Asia's Forest Bangkok. Thailand. 5<sup>th</sup> -16 August 2013.
45. **Participant:** Bengkel Penulisan Dewan Bahasa dan Pustaka (DPB) bilik Sidang Utama FPAS. Fakulti Pengajian Alam Sekitar. 23<sup>rd</sup> July 2013.
46. **Participant:** Forum Pengerusi National Mirror Committee (NMC) Bersama Jabatan Standard Malaysia Jabatan Standard Malaysia PICC Putrajaya. 31<sup>st</sup> May, 2013.
47. **Participant:** Bengkel Pembentukan Standard Kualiti Udara Ambien Bersama Kumpulan Pakar. Hotel Marriot Putrajaya. Hotel Marriot Putrajaya. 27-28<sup>th</sup> May, 2013.
48. **Participant:** Bengkel Pelan Strategik 2014-2020, UPM. Hotel Lexis , UPM, Port Dickson. 22<sup>nd</sup> – 23<sup>rd</sup> March, 2013.
49. **Participant:** Bengkel Semakan Proposal ERGS. Fakulti Pengajian Alam Sekitar. Bilik Sidang Utama FPAS. 30<sup>th</sup> January, 2013.
50. **Field Expert.** Bengkel Pembentukan Standard Kualiti Udara Ambien Bersama Kumpulan Pakar. Organised by Department of Environmnet, Malaysia. Hotel Equatorial Bangi-Putrajaya. 23-24<sup>th</sup> October, 2012.
51. **Poster presentation:** Exhibition of Invention, Research and Innovation (PRPI)-Commercialization Innovation towards Sustainable Economy and Community Wellbeing (2011) at Sultan Salahuddin Abdul Aziz Hall, Universiti Putra Malaysia. Poster Entitled“. PM<sub>10</sub> Distribution Using Remotely Sensed Data and GIS Techniques, Klang Valley, Malaysia”. 19-21<sup>st</sup> July 2011.
52. **Poster presentation:** Exhibition of Invention, Research and Innovation (PRPI)-Commercialization Innovation towards Sustainable Economy and Community Wellbeing(2011) at Sultan Salahuddin Abdul Aziz Hall, Universiti Putra Malaysia. Poster Entitled “.Accuracy Assessment of Moderate Resolution Image Spectroradiometer Products for Dust Storm in Semiarid Environment”. 19-21<sup>st</sup> July 2011.
53. **Observer:** The Twelfth Senior Technical Managers’ Meeting of the Acid Deposition monitoring Network in East Asia. 21-22 September 2011, Kuala Lumpur, Malaysia. Organized by the Network Center (NC) for EANET in Collaboration with the Secretariat for EANET, hosted by the Government of Malaysia.
54. **Country Representative:** Eleventh Session of the Scientific Advisory Committee (SAC11) on Acid Deposition Monitoring Network in East Asia (EANET). 12-14<sup>th</sup> October 2011, Ho Chi Minh City, Vietnam.
55. **Participant:** Training Course on Leadership Challenge by OneRevSdn. Bhd. Organised by Universiti Putra Malaysia. Ibnu Sina Room, Pusat Islam, UPM. 25-26<sup>th</sup> May 2010.
56. **Participant:** The Malaysia Green growth Policy Tools Training Workshop for Low carbon Development. Organised by KETTHA, Environment and Development ESCAP and UNDP. Putrajaya. 18-19<sup>th</sup> May 2010.



57. **Trainer:** Short Course Training on Air Quality Modeling. Human Resource Development Program with Modeling Simulation SMOKE, CMAQ and Hysplit. Organised by Department of Meteorology Malaysia. Petaling Jaya. 18-22<sup>nd</sup> October 2010.
58. **The Judge:** Flextronics Eco Challenge. Organised by Flextronics. Crowne Plaza Mutiara Kuala Lumpur. 24<sup>th</sup> November 2010.
59. **Participant.** Seminar on Integration of Environment, Including Climate Change in Development Co-operation. ADM Support Team, EuropeAid. 26-29<sup>th</sup> April 2010.
60. **Participant.** Malaysia Green Growth Policy Tools Training Workshop for Low Carbon Development. The British High Commission in partnership with the United Nations Development Programme and Economic and Social Commission for Aisa and the Pacific and supported by the United nations Industrial Development Organization. 18-19 May 2010. Pullman Putrajaya Lakeside, Putrajaya.
61. **Co-Author.** Ahmad Makmom Bin Haji Abdullah, Mohammad Firuz Bin Ramli, Jamil Amanollahi. Urban Heat Island Monitoring Using Landsat Satellite Images Processing, Tehran Iran. 3<sup>rd</sup> International Conference on Geoinformation Technology for Natural Disaster Management & Rehabilitaiton held at Chiang Mai Thailand. Organised by Geoinformatics International. Chiang Mai, Thailand. 19-20<sup>th</sup> October, 2010.
62. **Co-Author:** Masitah Mohd Yusof dan Ahmad Makmom Bin Haji Abdullah. Factors influence selffficacy in environmental education among Malaysian secondary school teacher. Paper presented at Seminar Antarabangsa ke 3, Ekologi Habitat Manusia dan Perubahan Lingkungan. Riau, Pekan Baru Indonesia. 21<sup>st</sup> December 2010.
63. **Paper Presenter:** The Impact of Land Use Changes on the Climatic Condition of Pasoh Forest Reserve. Pasoh International Symposium Celebrating 25 Years of Lowland Tropical Forest Research. Organised by Forest Research Institute of Malaysia (FRIM), Kepong. 10-11<sup>th</sup> November 2010.
64. **Participant:** Exhibition of Invention, Research and Innovation (PRPI) UPM 2009. Application of Photographic Survey in Scenic Beauty Assessment of Highland Enviroment. Sultan Salahuddin Abdul Aziz Shah Art and Cultural Centre. Organised by UPM. 28<sup>th</sup> July 2009.
65. **Paper Presenter:** Workshop on Disposal of Soild Waste Through Sanitary landfill Mechanisms, Process, Potential Impacts and Post Closure Management. 25-26<sup>th</sup> August, 1999 at UPM. Organised by UPM and DOE, Malaysia.
66. **Session Chairman:** National Seminar on “Current Issues and Challenges in Environmnetal Quality Management in Malaysia”. 2-3<sup>rd</sup> December, 2009. Marriot Hotel, Putrajaya. Organised by UPM.
67. **Session Chairman.** Seminar Hasil Ekspedisi Penyelidikan Saintifik ke-2 Hutan Simpan Ayer Hitam. 23-25<sup>th</sup> November 2009. Hotel Grand Bluewave, Shah Alam. Organised by Faculty of Forestry, UPM and Department of Forestry, Selangor.
68. **Paper presentation.** Air Quality. Seminar Hasil Ekspedisi Penyelidikan Saintifik ke-2 Hutan Simpan Ayer Hitam. 23-25<sup>th</sup> November 2009. Hotel Grand Bluewave, Shah Alam. Organised by Faculty of Forestry, UPM and Department of Forestry, Selangor.
69. **Participant:** Exhibition of Invention, Research and Innovation 2009 (PRPI09). Application of Photographic Survey in Scenic Beauty Assessment of Highland Environment. Sultan

- Salahuddin Abdul Aziz Shah Art and Cultural Centre. Universiti Putra Malaysia. 28 July 2009.
70. **Participant.** Seminar paper National Seminar on Current Issues and Challenges in Environmental Quality Management in Malaysia, Putrajaya, 2-3 December 2009.
  71. **Ahmad Makmom Abdullah**, Loi Kok, Chng and Mohd Kamil Yusoff. (2008). Application of MM5/SMOKE/CMAQ System to evaluate impact of climate change on Malaysia Air Quality. *International Seminar on Climate Variabilities, Change and Extreme Weather Events*. Danau Golf Club, Universiti Kebangsaan Malaysia. 26-27<sup>th</sup> February, 2008.
  72. **Paper Presenter.** Urban Air Quality. Seminar on The Planning of urban Energy and Environmental System (Group VII). Sponsored by Vice Chancellor Council & Japan Society for the Promotion of Science. Hotel Seri Puteri, Johor Bahru, Johor. March 2009.
  73. **Ahmad Makmom Abdullah**, and Loi Kok, Chng, (2008). The Application of MM5-CMAQ For Modeling Urban Air Pollution In Selangor, Malaysia. *International Conference on Environmental Research and Technology (ICERT 2008)*. Universiti Sains Malaysia, Penang. 28-30<sup>th</sup> May 2008.
  74. **Penalist:** Postgraduate Colloquium. First Semester 2008/2009. Faculty of Environmental Studies. Universiti Putra Malaysia. 2008.
  75. **Paper presenter.** Greenhouse Gases Emission. Forest Rehabilitation Brainstorming Session. UPM-Mitsubishi Corporation Joint Research Project. UPMKB. 24<sup>th</sup> October, 2008.
  76. **Ahmad Makmom Abdullah**, Loi Kok, Chng and Mohd Kamil Yusoff. (2008). Application of MM5/SMOKE/CMAQ System to evaluate impact of climate change on Malaysia Air Quality. *International Seminar on Climate Variabilities, Change and Extreme Weather Events*. Danau Golf Club, Universiti Kebangsaan Malaysia. 26-27<sup>th</sup> February 2008.
  77. **Co-Author:** Jamilah Othman, **Ahmad Makmom**, Azizi Bin Muda and Manohar Mariapan. Tourists Perceptions on Highland management: Cameron Highland. Paper presented at Ecocity World Summit, San Francisco, United States of America. 22-26<sup>th</sup> April 2008.
  78. **Co-Author:** Puziah Abdul Latif dan **Ahmad Makmom**. Determination of physical characteristics of activated carbon derived from durian shell. Paper presented at CUTSE International Conference 2008. Curtin University of Technology and Institute of Engineers. Miri, Sarawak. 24-27<sup>th</sup> November 2008.
  79. **Participant:** Bengkel Pelancaran (Inception Workshop) Projek Second National Communication (NC2) Di Bawah Konvensyen Rangkakerja Perubahan Iklim (UNFCCC). Organised by Ministry of Natural Resources and Environment, Malaysia. Selesa Beach Resort, Port Dickson. 19-20<sup>th</sup> March 2007
  80. **Paper Presenter:** Ahmad Makmom Abdullah, Nurul Suliana Ahmad Hazmi, Ramdzani Abdullah, John Chng (2007). Preliminary Assessment of SO<sub>2</sub> Dispersion from Industrial Activities in Seberang Perai. *Seminar Proceedings the planning of Urban Energy and Environmental Systems*. Universiti Teknologi Malaysia, Johor Bahru, 10-11<sup>th</sup> September 2007.
  81. **Paper Presenter:** Ahmad Makmom Abdullah, Muhamad Awang, Akio Furukawa, Nur Rasidah Hashim, Rosta Harun, Mohd Kamil Yusoff (2006). Forest Conservation Movement towards Sustainable Forest Management in Peninsular Malaysia. Paper presented at International Symposium on Sustainable Environment in Asia. NARA Women's University. Nara. Japan.

82. **Participant: Internal Auditor Workshop**, Bilik Kuliah Biotech 2.2, Fakulti Bioteknologi dan Sains Molekul, UPM Fakulti Bioteknologi dan Sains Molekul, UPM Bengkel, 4<sup>th</sup> March 2006
83. **Participant:** Bengkel Learning Outcomes Initiatives I. Organised by Centre for Academic Development (CADe). Seminar Hall Block B, Faculty of Engineering, UPM, 8 – 9<sup>th</sup> March 2006.
84. **Participant** Bengkel Learning Outcomes Initiatives II Institute of Bioscience, UPM, 15 – 16<sup>th</sup> March 2006, Centre for Academic Development (CADe).
85. **Paper Presenter: Ahmad Makmom Abdullah**, Wan Nor Azmin Sulaiman, Mohd Nasir Hassan (2006) Problems of Chicken Manure in Malaysia. Paper presented at Workshop on Chicken Manure treatment and Application. Sponsored by EU ASIA ECO-PRO Programme Hotel President. Uniten. Putrajaya. 25<sup>th</sup> Mac 2006.
86. **Participant:** Bengkel Learning Outcomes Initiative 1. Bilik Seminar Blok D ITMA. 7-8<sup>th</sup> Februari 2006.
87. **Paper Presenter:** Persidangan Antarabangsa Sisa Pertanian (ICAW2006). Organised by Faculty of Environmental Studies, Universiti Putra Malaysia. Sponsored by EU ASIA ECO-PRO Programme and UPM. Marriot Hotel Putrajaya. 22-24<sup>th</sup> Mac 2006.
88. **Participant:** Second Workshop on Green House Gases (GHG). Inventory in the Land Use and Forestry Sector. Organised by Ministry of Natural Resource and Environment. Eastin Hotel, Petaling Jaya, 25<sup>th</sup> April 2006.
89. **Paper Presenter.** “The Planning of Urban Energy and Environmental System”. Sponsored by JSPS-VCC Programme. Ritsumeikan University, Biwako-Ohtsu campus. 20 – 26<sup>th</sup> September 2005
90. **Participant:** Bengkel Audit Dalaman MS ISO 9001:2000. Fakulti Pengajian Alam Sekitar, Universiti Putra Malaysia, Bilik Serbaguna. 3-4<sup>th</sup> Mei 2005.
91. **Participant:** JSPS-VCC Comprehensive Seminar. Sponsored by JSPS-VCC Programme. Grand Plaza ParkRoyal, Batu Ferringhi, Penang Malaysia. 21-24<sup>th</sup> November 2005
92. **Panel Session:** International Workshop, CHIMATRA (Chicken manure Treatment and Application in Europe and Asia) and Meeting on Asia Pro Eco Project. Sponsored by EU ASIA ECO-PRO Programme, Hamburg University of Technology (TUHH), Hamburg, Germany. 16 – 22<sup>nd</sup> January 2005
93. **Participant:** Seminar On Policy Implementation And Alternative Technologies Concerning Ozone Layer Protection.
94. **Participant** in the Kick off Meeting on “Asia ECO-PRO Programme” at Wargenigen University, The Netherland, 4-10 June 2003. (Sponsored by EU ASIA ECO-PRO Programme).
95. **Session Chairman:** on International Symposium Global Environment and Forest Management at KYOUSEI Science Center for Life and Nature. National Institute for Environmental Studies. January 24-25<sup>th</sup>, (2003). Memorial Hall, Nara Women’s University. Japan.

96. **Paper Presentation:** The Regeneration Trial of tropical Environment Forest. International Symposium Global Environment and Forest Management at KYOUSEI Science Center for Life and Nature. National Institute for Environmental Studies. January 24-25<sup>th</sup> , (2003). Memorial Hall, Nara Women's University. Japan.
97. **Paper Presenter: Ahmad Makmom Abdullah**, Nurul Azzura Shahadan, Marzuki Ismail, Suhana Musa, Akio Furukawa. Physiological Performance of Urban Tree (*Mesua ferrea L. Clusiaceae*) to Atmospheric Pollutant SO<sub>2</sub> and NO<sub>2</sub>. 14<sup>th</sup> Malaysian Society of Plant Physiology Conference (MSPPC 2003). Malaysian Society of Plant Physiology (MSPP). Awana Golf & Country Resort, Genting Highlands. 23-25<sup>th</sup> September 2003.
98. **Paper Presenter: Ahmad Makmom Abdullah**, Nurul Azzura Shahadan, Marzuki Ismail, Tay Ai Chen, Furukawa Akio, Lau Mun Yee and Gan Pek Chuan. Environmental Stress on Rice with Special Reference to O<sub>3</sub> and Simulated Haze. 14<sup>th</sup> Malaysian Society of Plant Physiology Conference (MSPPC 2003). Malaysian Society of Plant Physiology (MSPP). Awana Golf & Country Resort, Genting Highlands. 23-25<sup>th</sup> September 2003.
99. **Auditor:** Audit Dalaman Fakulti Pengajian Alam Sekitar.
100. **Panelist** Post-graduate Colloquium (II) First Semester 2007/2008. Conference Room, Faculty of Environmental Studies. 21 – 23<sup>rd</sup> February 2007. Faculty of Environmental Studies. Universiti Putra Malaysia.
101. **Country Representative:** The third Session of the Scientific Advisory Committee Meeting. Acid Deposition Monitoring Network in East Asia (EANET). EANET Secretariat Network Center. Pattaya, Thailand. 24 – 26<sup>th</sup> November 2003.
102. **Participant:** Bengkel Asas Penulisan Ilmiah Dewan Bahasa dan Pustaka. 5 – 6<sup>th</sup> April 2007. Bilik Konferens. Fakulti Pengajian Alam Sekitar. Universiti Putra Malaysia.
103. **Participant:** Kursus Ketua Juruaudit Sistem Pengurusan Kualiti ISO 9001:2000. Total Organisation Management Consulting (M) Sdn Bhd Hotel Residence, UNITEN. 23 – 27<sup>th</sup> April 2007. UPM.
104. **Participant:** Kursus Intensif Pegawai Makmal Peralatan Kualiti Air dan Udara Sanctuary Resort, Cherating, Pahang. 18 – 22<sup>nd</sup> May 2006.
105. **Participant** Kursus Penilaian Tahap Kecekapan (PTK 3)Pejabat Pendaftar, UPM. Hotel Residence, UNITEN. 4 – 12<sup>nd</sup> June 2006.
106. **Participant** Bengkel Penstrukturan Semula Program Master Alam Sekitar MASPUTRA, Fakulti Pengajian Alam Sekitar. Bilik Mesyuarat Fakulti Pengajian Alam Sekitar, UPM. 25<sup>th</sup> June 2007.
107. **Participant** Seminar Sistem Kredit Kerangka Kelayakan Malaysia. Centre for Academic Development (CADE) and Pejabat Pendaftar Auditorium Jurutera, Fakulti Kejuruteraan, UPM. 9<sup>th</sup> October 2007.
108. **Participant** Bengkel Penulisan Nota Audit. Fakulti Pengajian Alam Sekitar. Bilik Konferens, Fakulti Pengajian Alam Sekitar, UPM.
109. **Participant** Bengkel Kemahiran Insaniah Fakulti Pengajian Alam Sekitar. Hotel Renaissance, Melaka. 29 June – 1<sup>st</sup> July 2007.

110. **Auditor.** Audit Dalaman Fakulti Pengajian Alam Sekitar Fakulti Pengajian Alam Sekitar.
111. **Auditor** Audit Dalaman Fakulti Pengajian Alam Sekitar. Fakulti Pengajian Alam Sekitar, UPM. 8 – 9<sup>th</sup> January 2008.
112. **Group Leader/Facilitator** Hari Silaturrahim Pelajar Baharu Sesi 2007/2008. Fakulti Pengajian Alam Sekitar, Bukit Ekspo, UPM. 17<sup>th</sup> February 2008.
113. **Participant** Bengkel Penulisan Abstrak. Fakulti Pengajian Alam Sekitar. Bilik Konferens, Fakulti Pengajian Alam Sekitar, 20<sup>th</sup> February 2008.
114. **Participant.** Kursus Penulisan Akademik Centre for Academic Development (CADE) Dewan Taklimat, Bangunan Pentadbiran, UPM. 12<sup>nd</sup> March 2008.
115. **Participant:** Kursus Motivasi Fakulti Pengajian Alam Sekitar. Fakulti Pengajian Alam Sekitar, UPM, 28<sup>th</sup> March 2008.
116. **Panelist:** Post-graduate Colloquium (III) Second Semester 2007/2008. Fakulti Pengajian Alam Sekitar Bilik Konferens Fakulti Pengajian Alam Sekitar, UPM. 7 – 9<sup>th</sup> April 2008.
117. **Chairperson:** Seminar on "Research Projects in Environment" 2008. Fakulti Pengajian Alam Sekitar. Bilik Konferens Fakulti Pengajian Alam Sekitar, UPM. 28 April – 2<sup>nd</sup> May 2008.
118. **Participant:** Bengkel Leadership Altruistic Centre for Academic Development (CADE). Bilik Al Farabi, Fakulti Ekologi Manusia, UPM. 13<sup>th</sup> May 2008.
119. **Participant** Bengkel Penulisan Akademik Fakulti Pengajian Alam Sekitar. Bilik Gerakan Alam Sekitar, Fakulti Pengajian Alam Sekitar. 9- 10<sup>th</sup> September 2008.
120. **Panelist** Post-graduate Colloquium (IV) First Semester 2008/2009 Faculty of Environmental Studies Dewan Taklimat, Faculty of Environmental Studies, 20 – 22<sup>nd</sup> October 2008.
121. **Participant.** Bengkel Hala Tuju dan Pelan Strategik Fakulti Pengajian Alam Sekitar. Jabatan Sains Alam Sekitar, FSAS..Hotel Century Mahkota. 20-22<sup>th</sup> August 2004.
122. **Lead Auditor.** Audit Dalaman 1/2009. Fakulti Pengajian Alam Sekitar. 11 – 12<sup>th</sup> February 2009 Fakulti Pengajian Alam Sekitar.
123. **Panelist.** Post-graduate Colloquium (7) Second Semester 2008/2009. Fakulti Pengajian Alam Sekitar. 13 – 16<sup>th</sup> April 2009. Fakulti Pengajian Alam Sekitar.
124. **Panelist.** Environmental Research Project. Fakulti Pengajian Alam Sekitar. 27<sup>th</sup> April 2009. Fakulti Pengajian Alam Sekitar .
125. **Chairperson & Panelist.** Seminar Final Year Project. Fakulti Pengajian Alam Sekitar. 27 – 30<sup>th</sup> April 2009. Fakulti Pengajian Alam Sekitar.
126. **Participant.** Kursus Asas Penyediaan Sampel untuk Analisis Peralatan Khas Siri 1/2009. Fakulti Pengajian Alam Sekitar. 12 – 14<sup>th</sup> May 2009. Fakulti Pengajian Alam Sekitar
127. **Participant:** Pameran Reka Cipta, Penyelidikan dan Inovasi Pusat Kebudayaan dan Kesenian Sultan Salahuddin Abdul Aziz Shah, UPM. 28 – 30<sup>th</sup> July 2009.

128. **Participant.** Bengkel Latihan Audit Dalaman Fakulti Sains dan Fakulti Pengajian Alam Sekitar Bilik Serbaguna, Fakulti Sains, UPM. 3 – 4<sup>th</sup> May 2005.
129. **Participant.** Bengkel Hala Tuju Penyelidikan. Fakulti Pengajian Alam Sekitar. 3 – 5<sup>th</sup> June 2005. Century Mahkota Hotel, Melaka.
130. **Participant:** Workshop on Human Consequences of Climate Change. Commonwealth Geographical Bureau and School of Humanities, School of Humanities, USM. 12 – 17<sup>th</sup> June 2005.
131. **Paper Presenter.** Why Open Top Chamber (OTC) for microclimatic and air pollution monitoring? Case Study: MADA Area. The Malaysian Science and Technology Congress, Palace Of The Golden Horses, Seri Kembangan, Selangor. 2004.
132. **Abdullah, A.M.,** Ismail, M., Muda, A., Yusoff, M.K., Sulaiman, W.N.A., Ali, S.A. (2004) Rice yield losses from ambient trophospheric ozone exposure in MADA area. Paper presented at Malaysian Science and Technology Congress, Palace Of The Golden Horses, Seri Kembangan, Selangor.
133. Ismail, M., **Abdullah, A.M.,** Ali, S.A., A. Hazmi, N.S., A. Bakar, M.A. (2004). Air pollution dispersion modelling from multiple chemical industrial sources. Paper presented at National Environment Seminars 2020: City Environment, Mines Beach Resort, Seri Kembangan, Selangor.
134. **Trainer:** Understanding the Role of Vegetation. Environmental Management System. Training for JKR Road Designer. Tasik Kenyir. Terengganu. 2004.
135. **Participant.** Forum Pengerusi National Mirror Committee (NMC) Bersama Jabatan Standard Malaysia SIRIM. 2013.
136. **Abdullah, A.M.,** Ismail, M., Sharifah Azlina Ali, Nurul Azzura Shahadan, Zardi, Z. and Zainol Abidin, A.Z. (2003). Modelling air pollutant dispersion from power plant. Paper presented at Malaysian Science and Technology Congress, Mid Valley, Kuala Lumpur.
137. **Abdullah, A.M.,** Ismail, M., Sharifah Azlina Ali, Nurul Azzura Shahadan., Furukawa, A. and Awang, M. (2003). Study on the effects of SO<sub>2</sub>, NO<sub>2</sub> singly and in combination on growth and physiological performance of Malaysian rice cultivars. Paper presented at Malaysian Science and Technology Congress, Mid Valley, Kuala Lumpur.
138. **Abdullah, A.M.,** Ismail, M., Shahadan, N.A., Musa, S. and Furukawa, A. (2003). Physiological performance of urban tree (*Mesua Ferrea L. Clusiaceae*) to atmospheric pollutant SO<sub>2</sub> and NO<sub>2</sub>. Paper presented at Malaysian Society of Plant Physiology, Genting Highlands, Selangor.
139. **Abdullah, A.M.,** Ismail, M., Shahadan, N.A., Chen, T.A. and Furukawa, A. (2003). Environmental stress on rice with special reference to O<sub>3</sub> and simulated haze. Paper presented at Malaysian Society of Plant Physiology, Genting Highlands, Selangor.
140. Ismail, M., **Abdullah, A.M.,** Ali, S.A., A. Bakar, M.A. (2004). Why Open Top Chamber (OTC) for microclimatic and air pollution monitoring? Case Study: MADA Area. Paper presented at Malaysian Science and Technology Congress, Palace Of The Golden Horses, Seri Kembangan, Selangor.

141. **Abdullah, A.M.**, Ismail, M., Muda, A., Yusoff, M.K., Sulaiman, W.N.A., Ali, S.A. (2004) Rice yield losses from ambient trophospheric ozone exposure in MADA area. Paper presented at Malaysian Science and Technology Congress, Palace Of The Golden Horses, Seri Kembangan, Selangor.
142. Ismail, M., **Abdullah, A.M.**, Ali, S.A., A. Hazmi, N.S., A. Bakar, M.A. (2004) Air pollution dispersion modelling from multiple chemical industrial sources. Paper presented at National Environment Seminars 2020: City Environment, Mines Beach Resort, Seri Kembangan, Selangor.
143. **Paper Presenter:** The International Symposium on Global Environment and Forest Management. Organized by KYOUSEI Science Center for Life and Nature, National Institute for Environmental Studies. Memorial Hall, Nara Women's University. Nara, Japan. January 24 and 25, 2003.
144. **Session Chairman:** The International Symposium on Global Environment and Forest Management. Organized by KYOUSEI Science Center for Life and Nature, National Institute for Environmental Studies. Memorial Hall, Nara Women's University. Nara, Japan. January 24 and 25, 2003.
145. **Abdullah, A.M.**, Ismail, M., Sharifah Azlina Ali, Nurul Azzura Shahadan, Zardi, Z. and Zainol Abidin, A.Z. (2003) Modelling air pollutant dispersion from power plant. Paper presented at Malaysian Science and Technology Congress, Mid Valley, Kuala Lumpur.
146. **Abdullah, A.M.**, Ismail, M., Sharifah Azlina Ali, Nurul Azzura Shahadan., Furukawa, A. And Awang, M. (2003) Study on the effects of SO<sub>2</sub>, NO<sub>2</sub> singly and in combination on growth and physiological performance of Malaysian rice cultivars. Paper presented at Malaysian Science and Technology Congress, Mid Valley, Kuala Lumpur.
147. **Abdullah, A.M.**, Ismail, M., Shahadan, N.A., Musa, S. and Furukawa, A. (2003). Physiological performance of urban tree (*Mesua Ferrea L. Clusiaceae*) to atmospheric pollutant SO<sub>2</sub> and NO<sub>2</sub>. Paper presented at Malaysian Society of Plant Physiology, Genting Highlands, Selangor.
148. **Abdullah, A.M.**, Ismail, M., Shahadan, N.A., Chen, T.A. and Furukawa, A. (2003) Environmental stress on rice with special reference to O<sub>3</sub> and simulated haze. Paper presented at Malaysian Society of Plant Physiology, Genting Highlands, Selangor
149. **Ahmad Makmom Abdullah**, Nurul Azzura Shahadan, Suhana Musa, Muhammad Awang, Akio Furukawa (2002). Effects of Low Ambient SO<sub>2</sub> and NO<sub>2</sub> Concentration on Urban Tree with Special Reference to *Mesuaferrea* b. Clusiaceae. *Symposium B. Malaysia Science and Technology Conference*, 17-19<sup>th</sup> October, Awana Genting Highland, Golf and Country Club. Genting Highland.
150. Marzuki Ismail, **Ahmad Makmom Abdullah**, Tan Meng Kwan. (2002). PM<sub>10</sub> Cross the Threshold Atmospheric from Cement Factory in Rawang. *Symposium B. Malaysia Science and Technology Conference*, 17-19<sup>th</sup> October, Awana Genting Highland, Golf and Country Clud. Genting Highland.
151. **Participant.** Bengkel Persediaan Stakeholders Seminar on Revised Malaysia Ambient Air Quality Guidelines. Organised by Department of Environment (DOE) Malaysia. 2013.
152. **Panel Expert.** Expert group on Malaysia Ambient Air Quality Guidelines Development Workshop 1 . Organised by Department of Environment (DOE) Malaysia. 2013.

153. **Panel Expert.** Expert group on Malaysia Ambient Air Quality Guidelines Development Workshop 2 . Organised by Department of Environment (DOE) Malaysia. 2013.
154. Awang, M.B., **A.M. Abdullah** and S. Johan. Effects of CO<sub>2</sub> Enrichment on Gas-Exchange of Tropical Hardwood and Pioneer Species Seedlings Grown Under Low and High Light Intensities. XXI IUFRO World Congress, Kuala Lumpur. 7-12<sup>th</sup> August, 2000.
155. Awang, M.B., **A.M. Abdullah** and S. Johan. CO<sub>2</sub> Profiles in coastal mangroves forest and primary forest. XXI IUFRO World Congress, Kuala Lumpur. 7-12<sup>th</sup> August, 2000.
156. Awang, M.B., **A.M. Abdullah**, M.N. Hassan and M.K. Yusoff. Smoke Emissions from 1997 Forest Fire in Southeast Asia. XXI IUFRO World Congress, Kuala Lumpur. 7-12<sup>th</sup> August, 2000.
157. **Abdullah, A.M.**, Awang, M.B., Wan Yunus, W.M.Z., Ismail, M., Lau, T.M., Tay, A.C., Yusoff, M.K., Zakaria, Z., Hassan, M.N. and S. Johan. Comparative Study of Physico-chemical of Biomass Burning and Haze Particles. Malaysian Science and Technology Congress 2000, Hotel Casuarina Park Royal, Ipoh. 16-18<sup>th</sup> October 2000.
158. Awang, M.B., Muhamad, R., **Abdullah, A.M.** and Hee, Y.S. Photosynthetic Activities of Cocoa Leaves Damaged by *Helopeltis* Under Different Light Regime Malaysian Science and Technology Congress 2000, Hotel Casuarina Park Royal, Ipoh. 16-18<sup>th</sup> October 2000.
159. **Abdullah, A.M.**, Awang, M.B., Ismail, M., Chong, S.M. and A.C. Tay. Study on the Effects of Sulfur Dioxide (SO<sub>2</sub>) On The Ornamental Plant Species. Malaysian Science and Technology Congress 2000, Hotel Casuarina Park Royal, Ipoh. 16-18<sup>th</sup> October 2000.
160. **Abdullah, A.M.**, Awang, M.B., Wan Yunus, W.M.Z., Tay, A.C., Sii, L.I. And F.S. Tan Characterization of Suspended Particles and Gases From Phytomass Burning and Vehicle Emission. Malaysian Science and Technology Congress 2000, Hotel Casuarina Park Royal, Ipoh. 16-18<sup>th</sup> October 2000.
161. **Abdullah, A.M.**, M. Ismail and A.C. Tay The Role of Plant in Landscapes. National Horticulture Conference 2000 (Landscape Horticulture) Equatorial Hotel, Bangi, Selangor Darul Ehsan. 26-28<sup>th</sup> September 2000.
162. Tuan Ibrahim, S.Z., **A.M. Abdullah**, A. Hashim, N. Abdul Samad. Physiological Performance of Healthy and Virus-Infected Orchid Hybrids Inoculated With Mycoorhiza. Paper presented in 11th Malaysian Society on Plant Physiology Conference and 2nd National Banana Seminar, Sutra Beach Resort, Kuala Terengganu. 4-7<sup>th</sup> September 2000. Pp 4.
163. **Abdullah, A. M.**, M. B. Awang, and A. Furukawa. Estimation of Carbon Gain Utilising the Light Availability and Photosynthetic Light Response of Tropical Forest Species. Paper presented in Conference on Forestry and Forest Products Research, FRIM, Kepong 2-4<sup>th</sup> October, 1997.
164. Haron, M.J., M.N. Hassan, M. Awang, **A.M. Abdullah** and M.K. Yusoff. Estimations of Green House Gases from Solid Waste Landfills in Malaysia. Paper presented in Synthesis Workshop on Green House Gases, Aerosol and Land Use and Land Cover Change in South East Asia. SARC. National Taiwan University Chungli, China-Taipe 15-18<sup>th</sup> November, 1997.



165. Awang, M.B., M.N. Hassan, N.A.M. Salleh and **A.M. Abdullah**. Air Pollution in Malaysia. Paper presented in Forum on Environmental Health Research. Institute of Medical Research Malaysia, Kuala Lumpur 15 September, 1997
166. Awang, M.B., **A.M. Abdullah**, S. Johan, S. Sias, M.J. Haron and C.P. Leong. Physiological Responses of Tropical Hardwood Species (*Shorea macrophylla*, *Shorea assamica* and *Hopea odorata*) to Simulated Acid Rain. International Symposium on Forest Decline Caused by Air Pollution (Photo-oxidants, Acid Rain and Fog), Hiroshima, Japan. December 8-10<sup>th</sup> 1997.
167. Awang, M.B., **A.M. Abdullah** and Z. Zakaria Recent Conditions of the Atmospheric Environment in Malaysia. Paper presented at "Asia Network Forum 1998. Kumamoto Prefecture. Japan.
168. Awang, M.B., **A.M. Abdullah**, Z. Zakaria, M.N. Hassan, and J. Shamsuddin Towards a Cleaner Atmospheric Environment: Monitoring, Assessment and Evaluation. Proceedings of National Symposium on "The Impact of Haze". UPM. 21<sup>st</sup> April 1998.
169. Usmani, Q.N., **A.M. Abdullah**, K.B. Khalid and M.B. Awang Small Scale and Portable Air Purification Systems for Haze Conditions. Proceedings of National Symposium on "The Impact of Haze". UPM. 21<sup>st</sup> April 1998.
170. Dzulkifly, K., W.M.Z. Wan Yunus, , M.D. Zaizi, , **A.M. Abdullah**, M.Z.A. Rahman, M.B. Awang and Haron, M.J. Physioco-Chemical Characterization of Haze Particles. Proceedings of National Symposium on "The Impact of Haze". UPM. 21<sup>st</sup> April 1998.
171. **Abdullah, A.M.** and M.B. Awang Effects of Light Reduction Due to Haze on Photosynthetic Activities of Agricultural Crops and Forest Species. Proceedings of National Symposium on "The Impact of Haze". UPM. 21<sup>st</sup> April 1998.
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173. **Participant:** Awang, M.B., **A.M. Abdullah**, M.N. Hassan and M.K. Yusoff. Smoke Emissions from 1997 Forest Fire in Southeast Asia. XXI IUFRO World Congress, PWTC. Kuala Lumpur. 7-12<sup>th</sup> August 2000.
174. **Paper Presenter: Abdullah, A.M.**, Awang, M.B., Wan Yunus, W.M.Z., Ismail, M., Lau, T.M., Tay, A.C., Yusoff, M.K., Zakaria, Z., Hassan, M.N. and S. Johan. Comparative Study of Physico-chemical of Biomass Burning and Haze Particles. Symposium B, Malaysian Science and Technology Congress. Hotel Casuarina Park Royal. Ipoh, Perak. 16-18 October, 2000.
175. **Participant:** Awang, M.B., Muhamad, R., **Abdullah, A.M.** and Y.S. Hee. Photosynthetic Activities of Cocoa Leaves Damaged by Heleopeltis Under Different Light Regime. Symposium B, Malaysian Science and Technology Congress. Hotel Casuarina Park Royaa;, Ipoh, Perak. 16-18<sup>th</sup> October, 2000.
176. **Paper Presenter: Abdullah, A.M.**, Awang, M.B., Ismail, M., Chong, S.M. and A.C. Tay. Study on the Effects of Sulfur Dioxide (SO<sub>2</sub>) on the Ornamental Plant Species. Symposium B, Malaysian Science and Technology Congress. Hotel Casuarina Park Royaa;, Ipoh, Perak. 16-18<sup>th</sup> October, 2000.

<b>11. PUBLIC SERVICE</b>
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**a. Professional**

**i. External Examiner for Ph.D**

	<b>Candidate Name</b>	<b>University</b>	<b>Thesis Title</b>	<b>Year (viva)</b>
1.	Hind Shnawa Jasmin	Universiti Kebangsaan Malaysia (UKM)	Determination of Heavy Metal Content and Antioxidant Activity in Medicinal Ferns, <i>Blechnum Orientale</i> and	2015
2.	IzharAbadi bin Ibrahim Rais	P-GD0061 (USM) Conceptual Modeling Industrial Dust	Multivariate Statistical Concept Modeling on Industrial Dust Emission From Quarry Sites Towards Effective Sustainable Development	2012
3.	Fatimah Ph Ahamad	P-63141 (UKM)	Tropospheric and Daily Maximum Ground Level Ozone Variability in the West Coast of Peninsular Malaysia	2015
4.	Yong Kim Hwang	(GSK1033) (UMT)	Application of GIS for Wind Potential Study in Malaysia	2014
5.	Khalil Mokhless El-Khateeb	The Islamic University- Gaza Air Quality Modeling	Affect of Indoor Environmental Quality in the Islamic University-Gaza Occupants	2014

**ii. External Examiner for M.Sc**

	<b>Candidate Name</b>	<b>Matric No.</b>	<b>Thesis Title</b>	<b>Year (viva)</b>
1.	Yong Kim Hwang	GSK1033(UMT) Teknologi Alam Sekitar	Application of GIS for Wind Potential Study in Malaysia	2014
2.	Muhammad Ihsan Bin Shaharil	Master of Science (Built Environment) (USM)	The Effects of Airborne Particulate from Coal Power Plant Towards the Residents at Manjung , Perak	2014
3.	Azrin binti Suroto	M.Sc Teknologi dan Pengurusan Alam Sekitar	Effects of Elevated Tropospheric Ozone on Biochemical and Yield of selected Indica Rice Plants	2014
4.	Mahmood Sulaiman	Universiti Teknologi Malaysia (UTM) Food science and technology	A Treatment system for reducing carbon dioxide using synergistic generated oil Palm shel Activated carbon	2012
5.	Nur Zafirah MohdSofian	UMT Air Pollution	Indoor and Outdoor Air Pollutants Relationship at Primary Schools in Kuala Terengganu	2011

iii. **Internal Examiner for Ph.D thesis:**

	<b>Candidate Name</b>	<b>Degree</b>	<b>Thesis Title</b>	<b>Year (viva)</b>
1.	Noorain bt Mohd Isa	GS25839 Environmental Process and System	Hydrochemistry Evolution in the Shallow Aquifer of kapas Island, Terengganu, Malaysia.	2016
2.	Pardis Karimi Alavijeh	GS29059	Isolation and Identification of Oil Degrading Indegeneous bacteria of tropical Soils of Malaysia	2015
3.	Chen Ying Mah	Landscape architecture	Microclimate Modeling of various Isolated tree Species in UPM, Malaysia	2014
4.	Mohd Armi Abu Samah	GS 17045 Solid Waste Management	An Expert System for Selecting An Appropriate Solid Waste Treatment Technology	2013
5.	Roland Kueh Jui Heng	Ph.D (Forestry)	Biomass and carbon Assessment of a rehabilitated tropical Forest	2013
6.	Sara Yasina binti Yusuf	GS20074 Environmental Engineering	Monitoring and Modeling of Air Particulate Matter in Ambient Air of Klang Valley, Malaysia	2011
7.	Tiwi binti Kamidin	GS17903 Environmental Education	Penerapan Unsur Ekopsikologi Dalam Pendidikan Alam Sekitar Dalam Kalangan Guru Pelatih Institut Pendidikan Guru	2010
6.	Farid Saeidyan	Dry Farming	Effects On Flood Events, Erosion and Sediment Yield in Kardeh Drainage Basin , Iran	2010
7.	Elidrissi Aboujaafar Sidi Mohamed	Environmental Control and Technology	Degradation of endocrine disrupting chemicals (PCBs: Aroclor 1254 and 1260) from drinking water using laboratory synthesised Fe and Pd/Fe nanoparticles	2008
8.	Mohd Noor bin Bidin	Hidrologi dan Hidrogeologi Alam Sekitar	The Impact Of Land Development On Flood Wave's Lag Time Of Pahang River Basin	2008
9.	Sim Cheng Hua	Environmental Control and Technology (GS09139)	Nutrient Removal in a Constructed Surface Flow Wetland System in Pilot Experiment and Field Study in Putrajaya, Malaysia	2006
10.	Kartini Abdul Mutalib	Environmental Education (Ecosystem of Forest)	Penilaian Keberkesanan Modul Pengajaran Ekosistem Hutan JAS Dalam Meningkatkan Pengetahuan dan Sikap Pelajar Terhadap Ekosistem	2007
11.	Sandra Kumar A/L Thiruvangodan	Environmental Planning and Management (GS06945)	Development of A model for Waste Tyre Management in Malaysia	2006

12.	LakanaJanya	Environmental Control and Technology (GS33834)	The impact of Industrial Development on Urban Land Use in Ayutthaya, Thailand	2004
13.	Srirat Ketmuang	Environmental Planning and Management (GS01940)	Local residents' and Tourists' Attitudes Toward Tourism Development in Phuket, Thailand: A Case Study at patong Beach.	2004

**iv. Internal Examiner for M.Sc Thesis:**

	Candidate Name	Specialization	Thesis Title	Year (viva)
1.	Mohamad Zaidi Sapli	Environmental Impact Assessment	Temporal Variations of Meteorological Parameters as Selected Malaysian Naval Stations	2015
2.	Syafrinawati binti sarfen	Climate Change	A survey on Understanding and Awareness Among Health Science Student in City University College of Science and Technology(cucts)	2015
3.	Siti Khairani Ramli	Risk Assessment	Trust Attributes and Risk Acceptance of the rareEarths Refinery Plant: ACASE Study on the Rerp Gebeng	2015
4.	Nurul Fadila bt Fadhilludin	Solid Waste	Community ReadinessTowards Solid WasteSeparation at Source in Taman Sri Serdang	2015
5.	Abdul Shukor bin Abdul Aziz	Pemeliharaan Kualiti Alam Sekitar	Equilibrium Studies and Dynamic Behavior ofCadmium and CopperAdsorption onto Palm Boiler Mill Fly Ash (POFA)	2014
6.	Fatma Sabariah binti Alias	Environmental Planning and Management	The Evaluation ofMunicipal Solid WasteManagement in Sabah Water villages	2014
7.	Faradiah binti Md Dali	Analisis dan Pemodelan Alam Sekitar (GS30154)	Spatial and Temporal Characterization of Heavy Metal using Chemometrics Techniques at Langat River basin, Malaysia	2014
8.	Mohd Saiful bin Samsudin	Analisis dan Pemodelan Alam Sekitar (GS27252)	Interpretation of Surface River Water Quality Using Environmetric Techniques and Statistical Process Control Performances for Selected River Basins in Peninsular Malaysia	2014
9.	Bavani A/P Nadaraja	Environmental Pollution Control Technology (GS17758)	Evaluation of traffic Noise barrier in Reducing Noise Pollution at Selected Residential Area in Klang Valley	2013

10.	Shamala Devi A/P Arumugam	Environmental Pollution Control Technology	Physico-chemical Characterization of mangosteen Peel Activated Carbon for Benzene Removal	2013
11.	Mohd Fahmi Mohd Nasir	Environmental Pollution Control Technology	Spatial and Temporal Variation Analysis of Surface Water Quality at Klang River basin, Malaysia	2013
12.	Doreena Anak Dominick	Environmental Quality Conservation	Spatial Assessment and Source Apportionment of Air Pollution in Malaysia Through Environmental Techniques	2013
13.	Billy Guan Teck Huat	Environmental Pollution Control Technology	Use of Selected Agricultural Waste Fibers as Potential Adsorbent for Ammonia Gas	2013
14.	Chandra Iman Arianto	Environmental Process and System	Above-Ground Biomass and Carbon Sequestration in Sarawak Mangrove Forest	2013
15.	Ishak Mohd	Environmental Pollution Control Technology (Water Quality Index)	River Water Quality Studies in Peninsular Malaysia Using Predictive Models: Integration of Principal Component Analysis and Artificial Neural Network	2013
16.	Cheryl Stephen A/L Jeganathan	Governan dan Polisi Alam Sekitar (GS24443)	Environmental Literacy Among Undergraduates of Environmental Programs at Public Universities in Selangor	2012
17.	Mohd Lokman bin Che Jusoh	Environmental Process and System (GS23555)	Influence of effective Microorganisms (EM) in the Composting Process of Rice Straw	2012
18.	Norhabina Binti Abd Aris	Environmental Pollution Control Technology	Development of A Methodology for Rapid Assessment of the Impact of Water Resource Management Options on Saline Intrusions in Malaysian Estuaries Application on the Langkat River	2012
19.	Nur Hidayah binti Abdul Latip	Environmental Pollution Control Technology	Characterization of Packing Material Derived From Durian Shell and Evaluation on the Potential Removal of Ammonia Gas	2012
20.	Daryllynn Chung Yiu Li	Environmental Planning and Management	Perception and Visual Aesthetic Assessment of On-site Domestic Waste	2011
21.	Nur Ilyana Bt Mohd Zukki	Environmental Analysis and Modeling (Expert System)	An Expert System for forest resources management	2010
22.	Kuhan Chandru a/l Balasanthiran	Proses dan Sistem Alam Sekitar	Malaysia using Hopanes and Polycyclic Aromatic Hydrocarbons (PAHs) as Fingerprinting Molecular Markers.	2008
23.	Azizul Azlin B. Razali	Proses	Dense Gas Dispersion	2008

		Keselamatan Dan Pengurusan Kecemasan	Study At Water Treatment And LNG Facility	
24.	Siti Zaharah Sakimin	Environmental Pollution Control Technology (GS 11589)	Root Restriction and Water Stree on Growth, Physiological and Biochemical Changes of Mango ( <i>Mangifera indica</i> ) Cv. Chokanan	2006
25.	Irene Chung	Environmental Planning and Management (GS10921)	Life Cycle Assessment of Malaysia Heaven: Implication for the National Carbon Inventory	2004
26.	Radin Diana Radin Ahmad	Environmental Pollution Control Technology (GS09973)	Assessment of Carbon dioxide (CO <sub>2</sub> ) Emissions from the Transport and Residential Sectors in Malaysia using Asia pacific Integrated Model (AIM)	2004
27.	Mohd Roslan Mohd Noor	Environmental Pollution Control Technology (GS 11732)	Water use Efficiency and Physiological Evaluation in oil Palm	2006
28.	Billy Guan Teck Huat	Environmental Pollution Control Technology	Use of Selected Agricultural Waste Fibers as Potential Adsorbant for Ammonia Gas	2013
29.	Mohd Fahmi bin Mohd Nasir	Environmental Pollution Control Technology	Spatial and temporal variation Analysis of Surface Water Quality at Klang river Basin, Malaysia	2013
30.	Nur Hidayah Binti Abdul Latip	Environmental Pollution Control Technology	Characterization of Packing Material Derived From Durian Shell and Evaluation on the Potential Removal Ammonia Gas	2012
31.	Chandra Iman Arianto	Environmental Process and System	Above-Ground and Carbon Sequestration in Sarawak Mangrove Forest	2013
32.	Doreena Anak Dominick	Environmental Pollution Control Technology	Spatial Assessment and Source Apportionment of Air Pollution in Malaysia Through Environmetric Techniques	2013
33.	Fatma Sabariah binti Alias	Environmental Pollution Control Technology	The Evaluation of Municipal Solid Waste Management in Sabah Water Villages	2014
34.	Othman Deris	Environmental Process and System	Effects of Forest Harvesting on River Water Quality and Physical Soil properties in Gunung Benom Forest Reserve, Raub Pahang.	2009

v. **Chairman for Viva Voce of Ph.D**

No.	Name of Student	Specialization	Title of Thesis	Year
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1.	Vahab Vaezzadeh	Environmental Process and System (GS 31168)	Bioavailability of Petroleum Hydrocarbons to Mangrove Oyster ( <i>Cassostrea belcher</i> ) from Sediment in Mangrove Ecosystems of West Coast of Peninsular Malaysia.	2015
2.	Mehzad Keshavarzifard	Environmental Process and System (GS 31571)	Bioavailability of Polycyclic Aromatic hydrocarbons (PAHs) to <i>Phaphia undulata</i> from Sediments in Selected Coastal Area of Peninsular Malaysia.	2015
3.	Yakubu Danasabe Mohammed	Environmental Planning and Management (GS27222)	Assessment of Performance Compliance to Construction Site Safety Management System in Klang Valley	2015
4.	Kasimu Ibrahim	Environmental Planning and Management (GS 30995)	Economic Impact of Climate Change on Maize Production in Northern Nigeria	2015
5.	Zufarzaana binti Zulkeflee	Environmental Pollution Control Technology (GS 22755)	Flocculating Capacities and Attributions of a Bioflocculant Derived Through the Implementation of Submerged (SMF) and Solid State Fermentation (SSF) of <i>basillus subtilis</i> UPMB13.	2014
6.	Kadafa Adati Ayuba	Environmental Analysis and Modeling	A Conceptual Model for Sustainable Solid Waste Management in Abuja Through an Assessment of Status of municipalities in Abuja, Nigeria and Putrajaya, Malaysia	2014
7.	Ahmad Faisal bin Alias	Environmental Planning and Management	Measuring Environmental Awareness of Artisanal Fishers in Manjung District to Facilitate Active Environmental Co Management	2014
8.	Sami Muhsen Sleman	Environmental Pollution Control Technology	Distribution of Linear Alkylbenzene (LABs) in Selected Sediments of Sarawak, Sembulan and Kuantan Rivers in Malaysia	2012
9.	Leila Khodapanah	Hydrology and Environmental Hydrogeology (GS16700)	A Comprehensive Approach for Evaluation of Groundwater Vulnerability to Contamination and Geochemical Characterization in an Alluvial Aquifer	2012
10.	Hazilia Binti Hussain	Environmental Pollution Control Technology (GS14391)	Nitrate-Nitrogen leaching in Paddy Soils and pattern Recognition of Nitrate-Nitrogen leaching	2012
11.	Yakubu Danasabe Mohammed	Environmental Planning and Management	Assessment of Safety and Health Measures on Construction Sites in Malaysia	2013
12.	Qasim Mohammed	Environmental	Identification and	2013

	Matrood Al-Darraji	Quality Conservation	Characterization of Cosmeceutical Bioactive Compounds From Red Worm ( <i>Lumbricus rubellus</i> ) and African Night Crawler ( <i>Eudrilus eugeniae</i> )	
13.	Nabeel Mohammad Gazzaz	Environmental Pollution Control Technology	Kinta River Water Quality Assesment and Land use patern Recognition using Artificial neural Network (ANN)	2011
14.	Elidrissi Aboujaafar Sidi Mohamed	Environmental Process and System (GS14032)	Degradation of Endocrine Disrupting Chemicals )PCBs: Aocolor 1254 and 1260) from Drinking Water using Laboratory Synthesised Fe and Pd/Fe Nanoparticles	2009
15.	Abdel Galeel Ali Yousif	Environmental Process and System GS10476	Remotely Sensed Chlorophyll-A Variability in the Straites of Malacca	2008
16.	Alireza Riyahi Bakhtiari	Environmental Process and System (GS16922)	Sources, Distribution and Depositional History of natural and Petroleum Hydrocarbons in Selected Locations in Peninsular Malaysia: perylene as molecular marker for source identification	2009
17.	IIng Lukman	Environmental Analysis and Modeling (GS07358)	Data Mining for Economic Evaluation of Air Pollution Impact and Controls	2007
18.	Sim Cheng Hua	Environmental Pollution Control Technology	Nutrient Removal In A Constructed Surface FlowWetland System In Pilot Experiment AndField Study In Putrajaya Wetland,Malaysia	2006
19.	Sandra Kumar A/L Thiruvangodan	Environmental Planning and Management (GS06945)	Development of A model for Waste Tyre management in Malaysia	2006
20.	Abdul Hamid	Environmental Process and System (GS10531)	Characterisation of Stormwater Quality from the Sungai Lui Catchment	2005

**vi. Chairman for Viva Voce of M.Sc**

No.	Name of Student	Specilization	Title of Thesis	Year
1.	Siti Hajar binti Sulaiman	Environmental Quality Conservation (GS27235)	An Acceptability of Environmental Education Kit (EE KIT) Among teachers at Selected Schools in Peninsular Malaysia	2014
2.	Siti Aishah binti Ismail	Hidrologi dan Hidrogeologi Alam	Application of Electrical Resistivity and Induced	2013



		Sekitar (GS20247)	Polarization Techniques to Study Factor Affecting Landslide in Banding Island, Perak	
3.	Ika Liana Binti Khalid	Environmental Education (GS23172)	Pengetahuan, Kesedaran dan Kepemimpinan Pengajaran guru Besar di Sekolah Rendah kebangsaan Terhadap Isu dan Pendidikan Alam Sekitar di Kuala Lumpur.	2012
4.	Nurliza binti Rosli	Environmental Pollution Control Technology (GS19280)	Effects of Ultrasonic Irradiation on Raw and Biologically Treated Palm Oil Mill effluent (POME)	2010
5.	Lee Yoke Lee	Environmental Process and System (GS10496)	Ecology of Scleractinian Corals in the Waters of Port Dickson and Their Tolerance to Sedimentation	2004
6.	Chee Thiam Ming	Environmental Analysis and Modeling (GS09613)	Multiple Regression Models Relating Municipal Solid Waste Composition and Energy Content of Refuse Derive Fuel (RD7).	2006
7.	Muhammad bin Raza	Environmental Process and System (GS22158)	Distribution and Source Identification of Polycyclic Aromatic Hydrocarbon in Mangrove Sediments and Pneumatophores in Rembau-Linggi Estuary, Negeri Sembilan, Malaysia	2012
8.	Sami Muhsen Sleman	Environmental Process and System	Distribution of Linear Alkylbenzenes (LABs) in Selected Sediments of Sarawak, Sembulan and Kuantan Rivers in Malaysia	2011
9.	Siti Aishah Binti Ismail	Environmental Process and System	Application of Electrical resistivity and Induced Polarization Techniques to Study Factors Affecting landslide in Banding Island, Perak	2013
10.	Qasim Mohammaed Matrood Al-Darraji	Environmental Education	Identification and Characterization of Cosmeceutical Bioactive Compounds From Red Worm ( <i>Lumbricus rebellus</i> ) and African Night Crawler ( <i>Eudriluse ugeniae</i> )	2013
11.	Kuhan Chandru A/L Balasanthiran (GS16342)	Environmental Process and System	Identification of Tarball Sources in Selected Beaches in the Eastern Seaboard of Peninsular Malaysia Using Hopane and Polycyclic Aromatic Hydrocarbons (PAHs) as Fingerprinting Molecules.	2007

## 12. EXTRA CURRICULAR ACTIVITIES

### i. Community Engagement

No.	Name of Society/Affiliation	Role	Year Joined
1.	Program Kesedaran Mengenai Jerebu Kepada Komuniti Kampus dan Sekolah	Speaker	2015
2.	Program Penyelidikan Saintis Muda Alam Sekitar di Hutan Simpan Sungai Menyala, Port Dickson. Sekolah Menengah Kebangsaan (STAR, Ipoh).	Advisor	2012
3.	Program Kesedaran Alam Sekitar (PROKAS 2010) Rawatan Najir Ayam Secara Efektif. Dewan Serbaguna mempaga, Kawasan Petempatan FELDA, Pahang. Organised by FESSA Session 2010/2011 with Collaboration with Faculty of Environmental Studies. Universiti Putra Malaysia.	Advisor	14 August 2010
4.	Program Sekolah Kluster, Sekolah Rendah Bukit Rokan, Negeri Sembilan.	Chairperson	2012
5.	Program Kitar Semula Alam Sekitar, Fakulti Pengajian Alam Sekitar (PROKAS)	Advisor	2010
6.	Program Ekspidisi Pacuan Empat Roda (ESPER 2). Endau Rompin, Johor	Advisor	2010
7.	Program Ekspidisi Pacuan Empat Roda (ESPER 3). Ulu Slim, Slim River, Perak	Advisor	2012
8.	Environmental Day, Faculty of Environmental Studies with Department of Environment, Port Dickson.	Advisor	2014
9.	Program Cintailah Sungai Kinta Sempena Hari Alam Sitar anjuran bersama JPS, Perak dan UPM	Chairperson	2010
10.	Flextronic Eco Challenge (UPM student team)	Advisor	2010
11.	Nobel Laurette Programme Committee, Faculty of Environmental Studies	Chairman	2000
12.	Kajian Inovasi Sains, Kolej Tunku Kursiah,	Advisor	2013
13.	Bayer Young Environmental Envoy, BAYER	Guest Lecturer	2013
14.	Expedisi Saintifik Pacuan 4 Roda Sungai Slim, Anjuran Bersama JPS/batang Padang dan UPM. 26-27 November 2010.	Advisor	2010
15.	Syarahannya bagi Program Ijazah Tinggi Doktor Kesihatan Awam (Kesihatan Persekitaran). Global Warming and Greenhouse Gases. Bilik Mesyuarat Jabatan Perubatan Masyarakat, Pusat Pengajian Sains Perubatan, Kampus Kesihatan, USM. 22 September 2010.	Invited Speaker	2010
16.	Syarahannya bagi Program Ijazah Tinggi Doktor Kesihatan Awam (Kesihatan Persekitaran). Air pollution and contamination. Bilik Mesyuarat Jabatan Perubatan Masyarakat, Pusat Pengajian Sains Perubatan, Kampus Kesihatan, USM. 24 March 2011.	Invited Speaker	2011
17.	Syarahannya bagi Program Ijazah Tinggi Doktor Kesihatan Awam (Kesihatan Persekitaran). Air Pollution Control and Legislation. Bilik Mesyuarat Jabatan Perubatan Masyarakat, Pusat Pengajian Sains Perubatan, Kampus Kesihatan, USM. 24 March 2011.	Invited Speaker	2011
18.	Kursus Penilaian Tahap Kecekapan Arkitek Lanskap J52. Jabatan Lanskap Negara. 2008.	Invited Speaker	2008
19.	Eco Challenge Press Conference. Negara Room, Crowne Plaza Mutiara Hotel, Kuala Lumpur.	Media Spokesperson	2010
20.	Program Nobel Lauretes Outreach Camp (NLOC) 2013-Scientist of Tomorrow. Faculty of Science, Universiti Putra Malaysia	Assessor/Judge	2013

**ii. University Representative**

No.	Name of Society/Affiliation	Role	Year Joined
1.	Working Group IV – Environmental Risk Management – JSPS-VCC Core Program	Member	2009
2.	Scientific Advisory committee (SAC) and the Session of Intergovernmental Meeting (IG) in 2012 on the Acid Deposition Monitoring Network in East Asia (EANET), UNEP and Ministry of National Resource and Environment	Committee Member	2012-2014
3.	MOU Research Collaboration between UPM-NIES-FRIM	Collaborator	2010
4.	European Union Malaysia Chamber of Commerce and Industry (EUMCCI) Environment Energy and Green Technology Committee.	Member	2014

**iii. Professional Affiliation**

No.	Name of Society/Affiliation	Role	Year Joined
1.	Malaysian Natural Society (MNS)	Member	2012
2.	Jawatankuasa Teknikal (TC8) Air Quality, SIRIM	Advisor	2010
3.	PERTANIKA Board Member, UPM	Committee Member	2006
4.	Pewasit Jurnal Sains Malaysiana, Universiti kebangsaan Malaysia	Committee Member	2010
5.	Registered Member of EIA Consultant as Subject Consultant (Air Quality), Department of Environment	Advisor	2005-present
6.	South East Asia Sustainability Network Asean	Committee Member	2013
7.	Clean Development Mechanism Committee (Agricultural Sector) MARDI and Ministry of Natural Resource and Environment	Expert Panel	2007
8.	Fundamental Research Grant Scheme (FRGS), Ministry of Education, Malaysia	Panel of Evaluator	2014
9.	Panel Penilai Rancangan Penyelidikan Bagi Skim Penyelidikan PASCA Doktor (PDF) Kementerian Sains, Teknologi dan Inovasi (MOSTI).	Panel of Evaluator	2010
10.	Presentation Seminar (Proposal) Course SPS5903. Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Session 2012/2013.	Assessor/Judge	2013

**iv. Academic Services**

No.	Name of Society/Affiliation	Role	Year Joined
1.	Curriculum Committee, Faculty of Environmental Studies	Chairman	2012-present
2.	Student Academic and Student Activities Advisor Committee, Faculty of Environmental Studies	Chairman	2010-present
3.	Student Industrial Training Committee, Faculty of Environmental Studies	Chairman	2010-present

4.	Alumni and Career Committee, Faculty of Environmental Studies	Chairman	2010-present
5.	Industrial and Community Network Committee (JINM)	Member	2011-present

**v. Others**

1.	Ahmad Makmom Abdullah. Apakah Teknologi Hijau. Era Hijau. Kick The Habit: Towards Low Carbon Economy. Department of Environment.	Author	2008
2.	Penulisan Bidang Karya Alam Sekitar, Dewan Bahasa dan Pustaka	Chairperson	2010
3.	Pemanasan Global- Fenomena Yang sedang Mengancam Bumi, Dewan Bahasa dan Pustaka	Panelist	2010

## REFEREES

Prof. Madya Dr. Ramdzani Abdullah  
Department of Environmental Management  
Faculty of Environmental Studies  
Universiti Putra Malaysia  
43400 UPM, Serdang  
Email.: [ramdzani@upm.edu.my](mailto:ramdzani@upm.edu.my).

Prof. Dr. Wan Nor Azmin Sulaiman  
Department of Environmental Science  
Faculty of Environmental Studies  
Universiti Putra Malaysia  
43400 UPM, Serdang  
Email: [wannor@upm.edu.my](mailto:wannor@upm.edu.my)  
Tel. No:

Prof. Dr. Ahmad Ainuddin Nuruddin  
Faculty of Forestry  
Universiti Putra  
43400 UPM, Serdang  
Email: [a\\_ainuddin@fyahoo.com](mailto:a_ainuddin@fyahoo.com) or [ainuddin@upm.edu.my](mailto:ainuddin@upm.edu.my)

Or

Prof. Dr. Ahmad Ainuddin Nuruddin  
Deputy Director  
Institute of Tropical Forestry and Forest Product (INTROP)  
Universiti Putra Malaysia  
43400 UPM, Serdang  
Email: [a\\_ainuddin@fyahoo.com](mailto:a_ainuddin@fyahoo.com) or [ainuddin@upm.edu.my](mailto:ainuddin@upm.edu.my)  
Tel. No.: 03-89471781