

**Prof. Dr Jamal Othman**  
**School of Economics**  
**Faculty of Economics and Management**  
**Universiti Kebangsaan Malaysia, 43600 Bangi, MALAYSIA**  
**Tel: +603 89213762 (DL); FAX: +603 89215789**  
**Email: Jortman@ukm.edu.my; J\_othman@yahoo.com**

### **Current Designation**

- *Professor*  
Resource and Environmental Economics Program, School of Economics  
Faculty of Economics and Management  
Universiti Kebangsaan Malaysia (UKM), Bangi

### **Areas of Expertise**

- Natural Resource and Environmental Economics ▪  
Applied Macro and Micro-economics
- Policy and Project Analysis

### **Research Interests/Themes /Subjects**

- Sustainable Development and Green Economy
- Resource-Environmental Project Analysis
- Economic Valuation of Non-Marketed Goods/Ecosystem Services ▪  
Economy-Energy-Environment Interface
- Trade and Economic Integration

### **Economic Modeling Expertise**

- Econometrics (including qualitative dependent variables analysis)
- Input-Output and Social Accounting Matrix (SAM) analysis
- Multiple Country Computable General Equilibrium (CGE) Model - GTAP9, GTAPE ▪  
Comparative Static Climate Change Modeling - GTAPE
- Dynamic Climate Change Modeling - MDGTAPE (Malaysian Dynamic GTAPE Model). ▪  
Econometric Softwares - SPSS 21, LIMDEP 9, MATHEMATICA 10

### **Academic Qualification**

- The University of Georgia (UGA), Department of Agricultural and Applied Economics, Athens, Georgia, US, 1994  
Ph.D (Agricultural and Applied Economics). **Thesis Title: A Comparative Static, Game Theoretic Trade Model with Explicit Policy-Price Linkages**
- The University of Georgia (UGA), Athens, Georgia, US, 1990  
M.S. (Agricultural Economics). **Thesis Title: Generic Commodity Advertising and Impacts on Palm Oil Demand in the US**
- University of Agriculture Malaysia (now Universiti Putra Malaysia) Serdang, 1987  
B.Sc. (Agribusiness)

- University of Agriculture Malaysia Serdang, 1980  
Diploma in Agricultural Science.

## Work Experience

- **1980 - 1981**  
*Assistant Farmer Services Officer*, Training and Publication Unit, Lembaga Pertubuhan Peladang (LPP) Malaysia, Jalan Dungun, Damansara Heights, Kuala Lumpur
- **1982-May 1984**  
*Area General Manager*, Pertubuhan Peladang Muar Utara, Johor state LPP

### June 1984 - July 1987 (Study Leave)

- **1987 - 1994**  
*Tutor*, Faculty of Economics, Universiti Kebangsaan Malaysia, Bangi

### Nov. 1994 - Jan 2005

- *Lecturer & Assoc Professor*, Faculty of Economics and Business, Universiti Kebangsaan Malaysia, Bangi
- **Feb 2005 - present**  
*Professor*, Faculty of Economics and Business (now Fac. of Economics and Management), Universiti Kebangsaan Malaysia, Bangi

## Administrative Experience at UKM

- Head, Department of Agricultural and Resource Economics, Faculty of Economics, October 1, 1998 - September 30, 2000
- Head of Program, Resource and Environmental Economics Program, School of Economics, Faculty of Economics and Business, April 1, 2007 - November 30, 2007
- Deputy Director, Institute for West Asian Studies (IKRAB), UKM, December 1, 2007 - October 1, 2009.
- UKM Senate Member, 2008 - 2012.
- Member of Faculty's Graduate Studies Committee from 1998 - present.
- Member of Faculty's Research and Publication Committee from 1998 - present. ▪ Member of Faculty's PhD Qualifying Exam Committee, from 1998 - present. ▪ UKM Senate Member, June 2014 - present.
- Member of UKM's Research and Publication Committee, June 2014 - present.

## Teaching and Research Supervision

- ⇒ Currently teaching graduate courses (Masters & Ph.D) - Applied Resource Policy and Project Analysis, Microeconomics, Advanced Microeconomics, Environment and Resource Economics.
- ⇒ Experienced teaching undergraduate class History of Economic Thoughts, graduate level Advanced Agricultural Economics, International Finance, Monetary Economics, Environmental Economics and Social Impact Analysis.
- ⇒ Major Professor (Chairman) for 8 successful Ph.D Thesis/Dissertation and 30 masters thesis/academic paper.
- ⇒ Currently Major Professor (chairman) for 7 PhD thesis/dissertation (ongoing).

## Research (selected 22 of more than 30 projects)

1. Lead Researcher, **Economic Valuation of Environmental Resources: The Total Economic Value (TEV) Approach**. Funded by UNEP/MATREM 1997-2000.
2. Researcher, **Incentives for Protected Areas and Biological Diversity Conservation in Malaysia**. Funded by WWFM, 1997/98.
3. Researcher, **Economic Values of the 1997 Haze Diseconomies on Malaysian Economy**. Funded by Economy and Environmental Program for S.E. Asia (EEPSEA), 1998.
4. Researcher, **Modelling Structural Changes in Palm Oil Demand in the US and EU Markets**. Funded by UKM, 1999.
5. Lead Researcher, **Urban Environmental Valuation for Policy Analysis and Benefit Transfer**. Funded by Bank of Tokyo Research Funds, Fac. of Economics, UKM, 2000/2001.
6. Researcher, **Household Preferences for Improved Municipal Solid Waste Management Attributes**. Funded by Economy and Environmental Program for S.E. Asia (EEPSEA), 2000/2001.
7. Researcher, **Environmental Valuation: Entrance Fee System for Recreational Forests in Selangor**. Funded by UiTM Shah Alam, 2002/2003.
8. Lead Researcher, **The Contingent Valuation of Passive Use Values: Case of Coastal Aquacultural Projects**. Funded by Fac. of Economics and Business, UKM, 2003/2005.
9. Lead Researcher, **Economic Valuation of Malaysian Agricultural Multifunctionality**. Funded by ASEAN-MAFF Japan, 2005/2006.
10. Lead Researcher, **Promotion of Malaysian Agricultural Multifunctionality**. Funded by ASEAN-MAFF Japan, 2006/2007.
11. Lead Researcher, **Establishment of Guidelines and Manuals for Environmental Benefit Cost Analysis**. Funded by Fundamental Research Grant, KPT, 2007-2009.
12. Researcher, **Economics of Conservation of Marine Parks**, GUP, KPT, 2008 - 2010.
13. Lead Researcher, **Accounting for Resources Depletion and Environmental Degradation in Malaysian National Income (GDP) Accounts**. GUP, MOHE, 2007-2010. Completed.
14. Researcher, **Social Impact of Biotechnology Development in Malaysia**. Mainstream Project (Projek Arus Perdana), 2009 - 2012.
15. Researcher, **Drivers of Climate Change - Land Use and Land Cover Changes**. Ministry of Higher Education (MOHE), Malaysia Long Term Research Grant on Global Warming - Drivers, Sciences, Impacts and Responses for Sustainability. February 2011 - 2014. Ongoing.
16. Researcher, **NUSAJAYA Regional Open Space: New Frontiers in Funding Mechanism**. UKM-Industry Network Project. Dec 2010 - November 2011.
17. Lead Researcher, **Economic Valuation of Haze Health Impacts in Malaysia**. Economy for South East Asia Program (EEPSEA). June 2011 - Feb 2012.
18. Researcher, **Land Use Changes and Development Tradeoffs in Malaysia and Indonesia**. Asia Pacific Network. September 2010 - August 2012.
19. Lead Researcher, **Economics and Policy Imperatives for Sustainable Water and Wastewater Treatment in Malaysia**. LRGS, MOHE, July 2011 - January 2015.
20. Lead Researcher for **MPOB Project on Development of a User Friendly Comparative Static, Partial Equilibrium Model for The Malaysian Oil Palm Economy**. April 2013 - December 2014.
21. Lead Researcher for **UKM-Yayasan Sime Darby Chair Project on the Development of the Malaysian Environmental Input-Output Database for Climate Change Policy Analysis**. April 2004 - June 2015. Ongoing.
22. Lead Researcher for **Institut Darul Redzuan (Perak) Project on Analysis of Fiscal Sustainability for Perak State**. August 2014 - June 2015. Ongoing

## Client-Based Research (selected 10 projects)

1. Lead Researcher for **DOF Project on Code of Practice for Sustainable Aquaculture**, 2005.
2. Lead Researcher for **FAMA Project on Agricultural Marketing Coordination Mechanism**, 2007/09.
3. Lead Researcher for **Ministry of Agriculture and Agro-based Industries Project on Development of Food Balance Sheet System for Malaysia**, 2008/09
4. Advisor for **Department of Agriculture Malaysia Project on Agricultural Best Practices and Roles of Service Provider in the Paddy Sector**, 2008/10
5. Lead Researcher for **MITI Project on Malaysia-GCC Free Trade Impacts**, 2009-2010
6. Lead Researcher for **MDI/EPU Project on Malaysia-US Free Trade Impacts**, 2009-2010.
8. Economist for Institute of Labor Market Information and Analysis (ILMIA) **Study on Wages Structure in the Major Economic Sector Particularly in NKEA's Industries and its Impact Towards Labour Productivity and Capital Intensity**. June 2012 - December 2012.
9. Economist for **IRDA Study on Economic Analysis of Nusajaya Area Natural Resources**. October 2012 - March 2013.
9. Lead Researcher for **IDR (Institut Darul Redzuan, Perak) Project on Measuring and Monitoring the Sustainability of Perak Macroeconomy**. July 2013 - April 2014.
10. Economist for **TERAJU study on the Probable Impact of the TPPA on Bumiputra SMEs**. August - October 2013.

## Selected International Consultancy

1. Economist for **OECD, Japan Project on Rural Development Administration for Poverty Eradication in Malaysia**. 1997/98.
2. Lead Regional Consultant for **ASEAN-UNDP ASP-6 Project on Harmonization of the Social Impact Assessment Mechanisms in Member Countries Through Comparative Analysis of Existing Mechanisms and Practices**. Funded by UNDP/ASEAN Sec., 2001/2002.
3. ASEAN Technical Expert, ASEAN Secretariat **Agricultural Multifunctionality Research** - providing followup technical assistance to Brunei and Indonesia (2005).
4. Expert Reviewer, Brunei Department of Agriculture. Consultancy Report on **Multifunctionality of Agriculture in Brunei Darussalam: Assessment, Research Evaluation and Policy Recommendations**. June, 2008.
5. Expert Reviewer, UNDP. Appraising the quantitative models used in the consultancy project on **UNDP/MITI Project on Malaysia's Options in the TPP+ Negotiations**. November, 2010.
6. Economist for **UNDP-EPU Project on Economics of Climate Change for Malaysia (ECCM)**, August 2011 - June 2013.
7. Expert Economist for **ADB Project on Technical Assistance for Low Carbon Economy for Malaysia**. August 2011 - March 2015.

## Selected Publications (Google Scholar total citations = > 150, H Index = 9) (Scopus-based H Index = 5)

1. Jamal Othman, Mohd Fauzi Mohd Jani, and Mohammad Haji Alias. "World Palm Oil Market Under Freer Trade: Implications for Malaysia." *ASEAN Economic Bulletin*. Vol 15, No. 2. August 1998: 168-183. [EconLit]
2. Jamal Othman. "Optimal Policy Modelling for the Malaysian Rice Sub-Sector". *Malaysian Journal of Agricultural Economics*. Vol 12, Dec. 1998:75-98.
3. Mohammad Haji Alias and Jamal Othman. "Cointegration Between Palm Oil and Soybean Oil Price: A Study of Market Integration". *Jurnal Ekonomi Malaysia*. Vol. 32, 1998:39-50.

4. Jamal Othman and Mohd Shawahid H.O. “**Cost of Transboundary Haze Externalities**”. *Jurnal Ekonomi Malaysia*. Vol. 33 (1999):3-19.
5. Jamal Othman. “**Exchange Rates and Market Failure: Impacts on Agricultural Land Demand**”. *Jurnal Ekonomi Malaysia*. Vol. 34(2000): 21-37.
6. Jamal Othman and Mohammad Haji Alias. “**Examining Palm Oil Price Responsiveness in the US and EU Markets**”. *Journal of International Food and Agribusiness Marketing*. Vol. 12, Number 2 2000:83-96. [Scopus][Q2]
7. Jamal Othman, Mohammad Haji Alias and Tang Eng Cheng. “**Cointegration and Price Discovery in the Malaysian Palm Oil Market**”. *Malaysian Journal of Agricultural Economics*. Vol. 13, 2000: 14-30.
8. Mohammad Haji Alias, Tang Tuck Cheong and Jamal Othman. “**Aggregate Import Demand and Expenditure Componensts in ASEAN-5 Countries**”. *Jurnal Ekonomi Malaysia*, vol 35 (2001):37-50.
9. Jamal Othman and Mansor Jusoh. “**Factor Shares, Productivity, and Sustainability of Growth in the Malaysian Agricultural Sector.**” *ASEAN Economic Bulletin*. Vol. 18, No. 3 (2001): 320-333. [EconLit]
10. Jamal Othman, A. Latiff, 2001 (eds). **Biodiversity and Economic Valuation**. Round Table Dialogues, No. 6. Penerbit Lestari, UKM.
11. Jamal Othman. “**Food Security, Freer Agricultural Trade and Endogenous Policy Formation**”. *Jurnal Analisis*, Vol. 10, No. 1, June 2003.
12. Jamal Othman and Shahariah Asmuni. “**Economic Values of Wetlands Conservation from Urban Non-Users Perspectives**”. *Jurnal Analisis*, Vol. 10, N0. 2, December 2003.
13. Jamal Othman. “**Linking Trade Expansion, Environmental Policies and Haze Externalities: Case of Oil Palm in South East Asia**”. *ASEAN Economic Bulletin*, Vol. 20, No. 3, 2003. [EconLit]
14. Jamal Othman and Norlida Hanim Mohd Salleh. “**Estimation of Optimal Entrance Fee for Marine Parks Recreation: The Contingent Ranking Approach**” (in Malay). *Malaysian Journal of Environmental Management*. Vol 4, 2003, pp 57-82.
15. Jamal Othman, Mohammad Haji Alias and Mansor Jusoh. “**Sustainability of Growth in the Malaysian Oil Palm Farm Subsector**”. *Journal of International Food and Agribusiness Marketing*. Vol. 16, Number 2 2004:85-101. [Scopus][Q2]
16. Jamal Othman, Jeff Bennett and Russell Blamey. “**Environmental Values and Resource Management Options: A Choice Modelling Experience in Malaysia**”. *Environment and Development Economics*, Vol. 9, Part 6, 2004. [ISI][Q2]
17. Jamal Othman, Basri Abdul Talib and Redzuan Othman. “**Recreational Values of Malaysia Agricultural Park, Shah Alam**” (in malay). *International Journal of Management Studies*, Vol. 11, number 1, 2004.
18. Jamal Othman. “**Benefits Valuation of Improved Residential Solid Waste Management Services in Malaysia**”. Chapter in Milan and Melichar (eds), *Lectures in Non-Market Valuation Methods in the Environmental Area*. Charles University Environment Center, Charles University, Prague, 2004.
19. Jamal Othman. “**Policy Failures and Environmental Externalities: Case of Oil Palm in Malaysia and Indonesia**”. Chapter in Roy and Chatterjee (eds), *Readings in World Development: Growth and Development in the Asia Pacific*. Nova Science Publisher, 2006.
20. Jamal Othman. “**Economic Valuation of Household Preference for Solid Waste Management In Malaysia: A Choice Modeling Approach**”. *International Journal of Management Studies*, 13(1), 1 - 23 (2006).
21. Jamal Othman, Redzuan Othman, Nor Ghani Md Nor. “**Welfare Impacts of Air Quality Changes in Malaysia: The Hedonic Pricing Approach**”. *Jurnal Ekonomi Malaysia* 40, pp. 47-58 (2006).[Scopus]
22. Jamal Othman, Nousa Noor and Arifin Tawang. **Rural Viability and Environmental Functions in Malaysian Agriculture**. In Fahmuddin Agus (ed), *Country Case Studies on Multifunctionality of Agriculture in ASEAN Countries*, The ASEAN Secretariat and MAFF, Japan, Jakarta, 2006.
23. Jamal Othman, Jeff Bennett and Russell Blamey. “**Environmental Values and Resource Management Options: A Choice Modelling Experience in Malaysia**” in Richard T. Carson (ed). *International Library of Environmental Economics and Policy: The Stated Preference Approach to Environmental Valuation*, 2007, Vol 3. Ashgate Publishing Co.



24. Jamal Othman, Nousa Noor, and Ariffin Tawang (eds). **Multifunctionality of Agriculture in Malaysia. Department of Agriculture**, Malaysia, 2007.
25. Ishak Yussof, **Jamal Othman**, Roy Wilkinson. **Demand for Private Higher Education in Malaysia: The Case of Twinning Programs**. School of Economics, Faculty of Economics and Business, UKM Discussion Paper Series, No. 1, 2008.
26. Jamal Othman and Anggi Rahajeng. **“Economic Valuation of Recreational Attributes: Case of Nature and Culture-Based Tourism In Malaysia and Indonesia”**. *Scientific Magazine of Faculty of Tourism and Hotels*, Fayoum University, Egypt. Vol 4, No 1: 45-57 (2009).
27. Ahmad Mad Zin, **Jamal Othman** and Nor Ghani Md Nor. **“Conservation Policies and Equity Issues”** (in Malay). *Proceeding of the IVth National Economic Conference, 2009*. Faculty of Economics and Business, UKM.
28. Jamal Othman. **“Money Impartiality: Panacea for Economic Crisis”**. *International Journal of Management Studies*. Vol 17, Special Issue Feb 2010.
29. Jamal Othman and Yaghoob Jafari. **“Does ASEAN Freer Trade Benefit Malaysia?”** *The Swiss Review of International Economic Relations*. 2010, 65: 191-214. [EconLit]
30. Pek Chuen-Khee and **Jamal Othman**. **“Household Demand for Solid Waste Disposal Options in Malaysia”**. *International Journal of Human and Social Sciences*. 2010, 5(14): 913-918.
31. Chuen-Khee, P., **Jamal Othman**. **Household Demand for Solid Waste Disposal Options in Malaysia**. *Proceedings of World Academy of Science, Engineering and Technology*, 2010, pp. 235-240. [Scopus]
32. Goh Hong Lip, **Jamal Othman** & Latifah Amin. **The Moral Concern and Consumer Preference On GM Food**. *Proceedings of The International Conference on Ethics & Professionalism ICEP 2010*, pp 77-85.
33. Yaghoob Jafari and **Jamal Othman**. **Potential Economic Impacts of the Malaysia-US Free Trade Agreement**. *Proceedings of the Fifth Malaysian National Economic Conference*, organized by the Fac. of Economics and Management, UKM, Hotel Avillion Admiral Cove, Port Dickson, Oct 15-17, 2010, 291-299.
34. **Jamal Othman** and Yaghoob Jafari. **A Comparative Statics, Partial Equilibrium, Multi-Commodity Model for the Malaysian Agriculture**. *Proceedings of the Sixth Malaysian National Economic Conference, organized by the Fac. of Economics and Management, UKM, Everly Resort Malacca, June 5-6, 2011*.
35. Chuen-Khee Pek and **Othman, Jamal**. **A Choice Experiment Analysis for Solid Waste Disposal Options: A Case Study in Malaysia**. *Journal of Environmental Management* 92 (2011) 2993-3001. [ISI] [Q1]
36. Latifah M. Amin, **Jamal Othman**, Hong Lip, Goh and Kamaruzzaman J. **Consumer preference for genetically modified (GM) food: The case of less saturated fat palm oil in Malaysia**. *African Journal of Agricultural Research* Vol. 6(23), pp. 5212-5220, 19 October, 2011. [Scopus]
37. **Jamal Othman** and Yaghoob Jafari. **Effects of Cooking Oil Subsidy Removals on Related Markets: A Comparative Static, Multi-Commodity, Multi Stage Production Approach**. *International Journal of Management Studies*. Vol. 18, No. 2 December, 2011
38. **Jamal Othman**, Roby Falatehan and Yaghoob Jafari. **Genuine Savings for Malaysia: What Does it Tell?** *International Journal of Management Studies*. Vol. 19, No. 1 June, 2012
39. Yaghoob Jafari, **Jamal Othman** and Abu Hassan Shaari Mohd Nor (2012), **Energy Consumption, Economic Growth and Environmental Pollutants in Indonesia**. *Journal of Policy Modeling*. 2012;34(6):879-889. [ISI] [Q2]
40. Mark P.S. Krekeler, Dave Aldridge, Pek Chuen-Khee, **Jamal Othman**. **A Glance at the World, Solid waste disposal options in Malaysia: A contingent valuation experience**. *Waste Management* 2012; 32(12):2563-2566. [ISI] [Q1]
41. **Jamal Othman** and Yaghoob Jafari. **Accounting for Depletion of Oil and Gas Resources in Malaysia**. *Natural Resources Research*. 2012;21(4):483-494. [Scopus][Q2]
42. **Jamal Othman** and Anggi Rahajeng. **Economic Valuation of Jogjakarta Tourism Attributes**. *Tourism Economics*. 2013;19(1):187-201. [ISI][Q1]
43. **Jamal Othman**, Mustafa Acar, Yaghoob Jafari. **Towards OIC Economic Cooperation: Impact of Developing 8 (D-8) Preferential Trade Agreement**. *Singapore Economic Review*. 2013; (2): 1-18. [EconLit, Scopus, ISI]

44. Mostafa Ghasemi, Wan Ramli Wan Daud, Ahmad Fauzi Ismail, Yaghoob Jafari, Manal Ismail, Alireza Mayahi, **Jamal Othman. Simultaneous wastewater treatment and electricity generation by microbial fuel cell: Performance comparison and cost investigation of using Nafion 117 and SPEEK as separators.** *Desalination* (2013), vol 325, 16 September 2013, Pages 1-6 [ISI] [Q1]
45. Jamal Othman and Ahmad Mad Zin. **Who Pays and Who Gets What from Taman Negara Protection?.** *Jurnal Ekonomi Malaysia*, 2013; 47(2):25-37. [Scopus]
46. Jamal Othman, Yaghoob Jafari and Tamat Sarmidi. **Economic Growth, Foreign Direct Investment, Macroeconomic Conditions and Sustainability in Malaysia,** *Applied Econometrics and International Development*, 2014, 14-1 [Scopus] [Q3]
47. Jamal Othman, Goh Hong Lip and Yaghoob Jafari. **Benefits valuation of potable water quality improvement in Malaysia: the case of Kajang Municipality,** *International Journal of Water Resources Development*, 2014. 30(4): 621-634  
<http://dx.doi.org/10.1080/07900627.2013.876851>. [ISI][Q2]
48. Jamal Othman and Chuen-Khee Pek. **Choice of noxious facilities: case of a solid waste incinerator versus a sanitary landfill in Malaysia.** *Waste Management and Research*, 2014, March 6. DOI: 10.1177/0734242X14523662 [ISI][Q1]
49. Jamal Othman, Mazrura Sahani, Mastura Mahmud and Md Khadzir Sheikh Ahmad. **Transboundary Smoke Haze Pollution in Malaysia: Inpatient Health Impacts and Economic Valuation.** *Environmental Pollution*, 2014 189, pp. 194-201. DOI: 10.1016/j.envpol.2014.03.010 [ISI] [Q1]
50. Yaghoob Jafari and Jamal Othman. **Potential Economic Impacts of the Malaysia-US Free Trade Agreement.** *Journal of International and Global Economic Studies*, 6(1), June 2013, 33-47.
51. Jamal Othman and Masoud Yahoo. Reducing CO2 Emissions in Malaysia: Do Carbon Taxes Work? *9th PERKEM Proceedings* (2014), 175-182. ISSN: 2231-962X
52. Jamal Othman and Masoud Yahoo. A CGE Analysis of the Impact of Energy and Carbon Taxes on the Malaysian Economy. *MIICEMA Proceedings* (2014), 339-358, ISBN: 978-983-3198-82-5

#### **Selected Seminar Papers (from 2007) - selected 31 (out of 180 papers)**

1. Jamal Othman. **New Dimension for Malaysian Agriculture Amidst Industrialization.** Invited paper presented at the International Seminar on Multifunctionality and Revitalization of Agriculture, organized by Indonesia Soil Research Institute, Department of Agriculture, Lido Lakes and Resort, Bogor, Indonesia, June 27-28, 2007.
2. Jamal Othman. **Economic Values of Ecological Corridors: Case of Mangroves and Agri-Environment Services.** Invited paper presented at the Workshop on Creating and Reestablishing Ecological Corridors within the Central Forest Spine, organized by JPBD, July 30-31 2007, Awana Genting Highland Golf and Country Resort, Pahang.
3. Jamal Othman. **Measure of Sustainability: The Green GDP/Natural Resource Accounting Approach.** Invited paper presented at the EPSM National Conference on Sustainable Living in Malaysia, June 13-16, 2007, University Malaya, Kuala Lumpur.
4. Jamal Othman. **Application of Quantitative Methods in Environmental Economic Research.** Collection of case studies presented at the UKM Mathematics Research Group Workshop, Cherating Resort Kuantan, November 6, 2007.
5. Jamal Othman. **Analysis of Free Trade Impacts Using a Multiregion CGE Model.** Invited paper presented at the MDI Trade Modelling Workshop, Nov 13, 2008.
6. Jamal Othman. **Global Economic Crisis and Challenges Impinging Islamic Development Economics: Perspectives for Malaysia.** Lead paper presented at the IKRAB National Conference on Malaysia-West Asia Relations: Prospect and Challenges, 1-2 December, 2008.
7. Jamal Othman & Pek Chuen-Khee. **Household Willingness-to-pay For Improved Municipal Solid Waste Management.** Invited Paper presented at the National Seminar on Best Practices for MSW Collections and Treatments in Malaysia, organized by the Centre of Environmental Research, Faculty of Chemical Engineering, UiTM, November 6, 2008.

8. Jamal Othman. **Islam, the Economy and Natural Equilibrium**. Invited paper presented at the Hadhari Economics Roundtable Discourse, organized by the Institute of Islam Hadhari, UKM, November 25, 2008.
9. Jamal Othman. **The Economics of Zakat and Poverty Alleviation: Case of Malaysia**. Plenary paper presented at the International Seminar on Poverty Alleviation dan Economic Empowerment under Global Economic Crisis, organized by Faculty of Economics, Universitas Andalas, Indonesia. November 6, 2008.
10. Jamal Othman. **Assessing Trade Competitiveness using a Comparative Static, Partial Equilibrium Trade Model**. Paper circulated at the Conference on Quantitative Analytical Tools Framework for Assessing Trade and Investment Competitiveness, organized by the Faculty of Economics, IPB, Bogor, Indonesia, August 14, 2008.
11. Jamal Othman. Agricultural Development, **Ecological Risk and Sustainability Issues in Malaysia**. Plenary paper presented at the International Conference on Ecological Risk and Food Security in Asia, organized by Yokohama National University, Japan, February 23, 2008.
12. Jamal Othman. **Measuring True Progress: The Green GDP Approach**. Paper presented at the National Environmental Conference 2008, organized by AEP, 17-18 Jan 2008. ,  
Jamal Othman and Yaghoob Jafari. **Accounting for Depletion of Oil and Gas Resources in Malaysia**. Paper presented in the Capacity Building Workshop on Green GDP Accounting, organized by EnRE, UKM. Hotel Seri Pacific, December 21-22, 2009.
13. Jamal Othman. **Green Economy and Macro Measure of Sustainability**. Paper presented in the Capacity Building Workshop on Green GDP Accounting, organized by EnRE, UKM. Hotel Seri Pacific, December 21-22, 2009.
14. Jamal Othman and Roby Falatehan. **A Framework for the Development of Forestry Accounts in the Context of SEEA in Malaysia**. Paper presented at the National Conference on Forest Products Valuation, organized by Department of Forestry Malaysia. Hotel Seri Pacific, November 9-10 2009.
15. Latifah Cheong Merican, Chee Sung Lee and **Jamal Othman**. **Economic Development, Environment and Sustainability**. Discussion paper circulated at the 3<sup>rd</sup> NEAC Council Meeting. Hotel Western, 11-12 December, 2009.
16. Pek Khuen Chee and **Jamal Othman**. **Solid Waste Disposal: A Choice Experiment Experience in Malaysia**. Paper presented at the Singapore Economic Review Conference (SERC), August 6-8, 2009.
17. Rosmini Ismail, **Jamal Othman**, Murray Patterson, and Vicky Forgie. **A Review for Valuing Environmental Assets Using the TCM for Items in Sustainability Accounting Balance Sheet**. Paper presented at the ANZSEE Ecological Economics Conference, Darwin Australia, October 28-29, 2009.
18. Zuroni Md Jusoh, **Jamal Othman**, Abdul Hamid Jaafar & Tamat Sarmidi. **Green Home Attributes In Environmental Choice Modelling**. Paper presented at the Fifth International Conf. on Global Research in Business and Economics, December 28-30, 2009.
19. Jamal Othman and Akhmad Fauzi. **Green GDP and Natural Resource Accounting: Perspectives for Malaysia and Indonesia**. Paper presented at the IPB International Conference on Malaysia-Indonesia Economic Relations, Bogor, Indonesia, April 14, 2009.
20. Jamal Othman. **Money and Sustainability**. Invited paper presented at the IJMS Seminar. USIM Nilai, July 25, 2009.
21. Jamal Othman. **The Quest for Money**. Lead paper presented at the Gold Dinar Conference, organized by the Gold Dinar Research Group and IKRAB. ILIM, August 27, 2009.
22. Jamal Othman and Yaghoob Jafari. **Towards OIC Economic Cooperation: Impacts of Developing 8 (D-8) Preferential Trade Agreement**. Paper presented at the IKRAB International Conf on West Asia-Malaysia Relations: Opportunities from Globalization. October 12, 2009.
23. Pek Khuen Chee and **Jamal Othman**. **Household Demand for Solid Waste Disposal Options in Malaysia**. Paper presented at the International Conference on Business, Economics and Management. Holiday Inn, Paris, June 28-30, 2010.
24. Yaghoob Jafari and **Jamal Othman**. **Potential Economic Impacts of the Malaysia-US Free Trade Agreement**. Paper presented at the Fifth<sup>th</sup> Malaysian National Economic Conference, organized by the Fac. of Economics and Management, UKM, Hotel Avillion Admiral Cove, Port Dickson, October 15-17, 2010.



25. Jamal Othman. **Economic and Environmental Sustainability: The Issue of Measurement.** Invited paper presented at the MIER National Economic Outlook Conference. KL Hilton, November 31-December 1, 2010.
26. Goh Hong Lip, Jamal Othman & Latifah Amin. **The Moral Concern and Consumer Preference On GM Food.** Paper presented at the International Conference on Ethics and Professionalism December 1-2, 2010.
27. Jamal Othman and Yaghoob Jafari. **Accounting for Depletion of Oil and Gas Resources in Malaysia** Contributed paper presented at the 55<sup>th</sup> AARES Annual Conference, Melbourne, Victoria, 8-11 February 2011.
28. Jamal Othman and Yaghoob Jafari. **A Comparative Statics, Partial Equilibrium, Multi-Commodity Model for Malaysian Agriculture.** Paper presented at the Sixth Malaysian National Economic Conference, organized by the Fac. of Economics and Management, UKM, Everly Resort Malacca, June 5-6, 2011.
29. Jamal Othman and Roby Falatchan. **Genuine Savings for Malaysia: What Does It Tell?** Paper presented at the National Conference on the 10th Malaysia Plan: Transformation Towards a High Income Economy. Organized by IJMS and MIER. July 18-20, 2011. Pan Pacific Hotel, Kuala Lumpur.
30. Yaghoob Jafari and Jamal Othman. **Effects of Cooking Oil Subsidy Removals on Related Markets: A Comparative Static, Multi-Commodity, Multi Stage Production Approach.** Paper presented at the National Conference on the 10th Malaysia Plan: Transformation Towards a High Income Economy. Organized by IJMS and MIER. July 18-20, 2011. Pan Pacific Hotel, Kuala Lumpur.
31. Jamal Othman. **Payment for Environmental Services - some practical matters for Malaysia.** Invited paper presented at the Seminar on Payment for Ecosystem Services of Tropical Forest, organized by FRIM and APAFRI. Hotel Sri Pacific, March 13, 2013.
32. Jamal Othman. **Malaysian Agricultural Multifunctionality: Economic Values and Policy Implications.** Paper presented at the 6<sup>th</sup> Annual International ESP Conference 2013, Bali Indonesia (Pan Pacific Nirwana Bali Resort), August 26-31, 2013.
33. Jamal Othman. **Regional Development Approach for West Aceh Province, Indonesia: The FELDA Approach.** Invited paper presented at the Indonesian National Seminar for the Acceleration of West Aceh Regency Development, organized by West Aceh Regency and Universitas Teuku Umar, Maleuboh, Aceh, Indonesia, October 21, 2013.
34. Jamal Othman. **Economic empowerment and trade between islamic countries: challenges impinging shariah economics.** Paper presented at the Syariah Economics Seminar 2013: Strengthening Trade and Economic Relations Between Islamic Countries, Bogor Agricultural University, Bogor Indonesia, Nov 17, 2013.
35. Jamal Othman. **The Economics of Malaysian CO2 Reduction Strategies and Renewable Energy Development.** Presented at the Faculty of Economics and Management UKM research seminar series, December 12, 2013.
36. Jamal Othman. **Analysis of the "Key" Economic Sectors in Producing Emissions and Climate Change Policy Challenges in Malaysia.** Selected paper presented at the Conference on Climate Change, organized by Economy and Environment Program for South East Asia and EAAERE, Siem Reap Cambodia, February 27-28, 2014.

### **Selected Honors and Award**

1. Won Graduate Student Best Paper Award (1990, 1992, 1993), Department of Agricultural and Applied Economics, The University of Georgia, Athens.
2. **Post Doctoral Fellow**, Department of Agricultural and Applied Economics, The University of Georgia, Athens - *Modelling the Impacts of North American Free Trade Agreement (NAFTA) on labor market in the US.* March 25 - June 1995.
3. **Training Fellowship** - *Planning for Environmentally Sustainable Development.* Institute of Advanced Studies, United Nations University. Asian Institute of Technology (AIT), Bangkok, September 29 - October 7 1996.

4. **Visiting Fellow** - Inter University Center (IUC) for Economics, Gadjah Mada University, Jogjakarta. April 1997.
5. **Associate Fellow**, Institute of Environment and Development (LESTARI), Universiti Kebangsaan Malaysia, September 2 1997 - July 2000.
6. Recognized by the Faculty of Economics, Universiti Kebangsaan Malaysia as **Lead Scholar** in the field of *Economic Valuation of Environmental Resources*
7. **Visiting Fellow** - Course Development in Environmental Economics and Management, Aalborg University, Denmark, September 5 - October 1 2001.
8. **Study/Visiting Fellowship** - Natural Resource Economics in the Environmental Economics Unit, School of Economics and Commercial Law, Goteborg University, Sweden, February 24 - March 31, 2003.
9. Won the **Gold Medal** at the **Faculty of Economics and Business Research Exhibition 2004**, and **UKM Research and Innovation Expo, 2004**. Product titled "Pricing Model for Residential Solid Waste Management".
10. Won the **Gold Medal** at the **IPTA 2005 R&D Exhibition**. Product titled "Ecosystem Valuation: Case of Selangor Mangroves".
11. UKM Excellent Service Award - Years **1998, 2003, 2009**
12. UKM Research Award - **2012**
13. Award for publication in top journal - **2014**.

### Selected Recognition

1. Appointed by the Ministry of Rural Development Malaysia as **expert and resource person on sustainable rural development**. Advising the government on rural development related matters in the ASEAN senior officials and ministerial meetings (SOMRDPE and AMRDPE), 1997-2001.
2. Appointed by the government as a **member** of the ASEAN Expert Group on rural development and poverty measurement techniques, 1997 - 2000.
3. **Regular Speaker** for the Annual International Course on Sustainable Development and Poverty Eradication Administration organized by Malaysian Technical Cooperation Programs, EPU and Institute of Rural Advancement (INFRA), 1998 - 2001.
4. **Course leader** (Environmental Economics), Malaysian Universities Consortium for Environment and Development (MUCED) framework (2001-2002).
5. **Appointed as Adjunct Associate Professor of Sustainable Development and Environmental Policy**, Malaysian University of Science and Technology (MUST), 2003-2004.
6. **Appointed as Resource Person** for the SLUSE (sustainable land use) program at UNIMAS, 2003 and 2004.
7. **Appointed by the Ministry of Foreign Affairs as member of the special team on damages valuation** of Singapore Land Reclamation Activity, 2004-2005.
8. **Member of Consultant/Research Team-** Valuation of Economic Impacts of Singapore Land Reclamation activity on maritime (navigation) interests, 2005- 2007.
9. **Appointed by the Department of Environment (DOE) as Expert Reviewer** for DEIA TOR and Reports, 2004 - present.
10. **DOE Subject Specialist** (Economic Valuation of Environmental Impacts), 2007 - present.
11. **Instructor** for various PPA UKM organized courses for UKM academics - Research Methodology, Quantitative Techniques, PTK4 -6. 2004 - 2009.
12. **Advisor** for *Department of Agriculture Malaysia Project on Agricultural Best Practices and Roles of Service Provider in the Paddy Sector*, 2008/10.
13. Appointed by the **National Economic Advisory Council (NEAC) at the Prime Minister's Department** to head the Macroeconomic Section for the formulation of the Malaysian New Economic Model, September - October 2009. Note this appointment could not be further realized due to overlaps in commitments at the time. Contributed two important papers on the Malaysia services sector and economic sustainability deliberated in the NEAC meetings, 2009.
14. Appointed by the AELB as **Member of the Public Consultative Committee**, 2011 - present.

15. Appointed by FRIM as member of the **FRIM Research Advisory Committee (RAC)**, 2012.
16. **Panel Evaluator** for University of Malaysia High Impact Research Projects, 2013 and 2014.
17. Appointed by EPU (Resource and Environment Section) as Member of the Core Team for RMKe-11: Fourth Thrust on Pursuing Green Growth. July 2014.

### Other Professional and Community Services

1. **Deputy Secretary**, Malaysian Agricultural Economics Association, 1998-2000.
2. **Journal Editorial Board member** for various scholarly journals.
3. **Life member** (since 1995), Malaysian Agricultural Economics Association (Persatuan Ekonomi Pertanian Malaysia (PETA)).
4. **Member**, International Society of Ecological Economics (ISEE).
5. **Member**, Australian Agricultural and Resource Economics Association (AARES).
6. **Manuscript reviewer** for various scholarly journals.
7. **External examiner** for a number of masters and doctoral dissertations.
8. **External assessor** for academic promotions (associate professors and professors).
9. **Regular contributor** (2012) to the Edge Daily and Weekly Forum (My Say).
10. **Head of the Principal Group on Socio-Economic Justice**, Organizing Committee for the National Professors Council (MPN) 2nd Congress (2013).
11. **Chairman**, National Professors Council Committee on Cost of Living, Jan 2014 - present.
12. **Member**, Akademi Sains Malaysia Working Group Committee on NKEA for Water, March 18 2014 - present
13. **Deputy Head**, Economic and Management Cluster, National Professors Council, April 1 2014 - March 31 2016.
14. **Member, Board of Governor**, Kolej Universiti Tunku Abdul Rahman. September 16 2013 - August 2016.
15. Participated regularly in various media talk shows (Astro Awani, TV3, TV2, TV9) affecting the economy in general

### Selected Keynote Speech/Plenary Paper Presenter

1. "Structure of Economic Program in the Era of Globalization". **Keynote Speech**, National Seminar on Economic Education: Academic vs Market Imperatives. Pan Pacific Kuala Lumpur, July 20, 2004.
2. "Agricultural Development, Food Security and Sustainability Issues in Malaysia". **Plenary Paper**, International Conference on Ecological Risks in Agriculture and Food Security in Asia. Organized by Yokohama National University, Japan, February 22-24, 2008
3. "Economics of Zakah & Poverty Alleviation: The Malaysian Experience. **Plenary Paper**, Conference on Globalization and Poverty Alleviation, Universitas Andalas, Padang, Indonesia, November 6, 2008.
4. "Financial Crises and Challenges Impinging Islamic Development Economics: Roles for Malaysia". **Plenary Paper**, IKRAB National Conference on Malaysia-West Asia Relations: Prospect and Challenges, December 1 - 2, 2008.
5. "The Quest for the „Right“ Money". **Plenary Paper**, DINAR Conference, organized by UKM Dinar Research Group & IKRAB. ILIM Bangi, August 27, 2009
6. "Market Failures, Trade and Climate Change". **Keynote Speech**, 2<sup>nd</sup> International Conference on Business and Economics, Universitas Andalas Indonesia, April 14-15 2010.
7. "Agricultural Multi-functionality: Economic Values and Policy Implications. **Plenary paper**, 2<sup>nd</sup> National Conference on Agro-biodiversity Conservation and Sustainable utilization. Promenade Hotel, Tawau, Sabah. May 11 - 13, 2010
8. "Growing Sustainably". **Keynote Speech**, Asian Development Bank Institute (ADBI)-Malaysian Institute of Economic Research (MIER) Joint Dissemination Seminar on

- Rebalancing for Sustainable Growth: Asia's Post Crisis Challenge". Parkroyal Hotel Kuala Lumpur, August 5, 2010.
9. "The Economic Sense of Forest and Biodiversity Resources". **Keynote Speech**, Regional Seminar on Conservation of Biological Diversity through Improved Forest Planning Tools, organized by FRIM. Prince Hotel, Kuala Lumpur, March 26-28, 2012.
  10. "Towards Economic Sustainability for Malaysia: The Issue of Measurement and the Low Carbon Economy". **Keynote Speech**, Pangkor International Development Dialogue, organized by IDR and Government of Perak. Impiana Hotel, Ipoh, Nov 19-21, 2012.
  11. "Sustainable Marine Eco-Business". **Keynote Speech**, Seminar on the Status of Marine Biodiversity of the Islands and Coastal Waters of Malaysia: Enhancing Scientific Knowledge of Marine Biodiversity for Conservation and Sustainable Development., organized by Department of Marine Parks Malaysia and National Oceanography Directorate, MOSTI. Avillion Admiral Cove, Port Dickson, November 26 - 28, 2012.
  12. "Macro Economic Analysis of Climate Change Focusing on Energy and Power Sectors in Malaysia". **Keynote Speech**, International seminar on the Economics of Climate Change, organized by the Malaysian Meteorological Department, November 26, 2013.
  13. "Hong Kong's Accession to ACFTA: Will it Benefit ASEAN?" **Keynote Speech**, Malaysia-Indonesia International Conference In Economics, Management and Accounting 2013 (MIICEMA 2013), October 9-10, 2013. Organized by Bogor Agricultural University, Bogor, West Java, Indonesia.
  14. "Accelerating the Development of South and West Aceh Regencies: Lessons from Malaysia", **Keynote Speech**, Indonesian National Conference on Accelerating the Development of South and West Aceh Regencies, organized by West Aceh Regency and Universitas Teuku Umar, Meulabuh, October 21 2013.
  15. "State's Role in Economic Development: Case of Malaysia". **Keynote Speech**, International Seminar on State's Role in Economic Development, April 30, 2015. Organized by Narotama University, Indonesia.

### Public Lecture

1. "Towards Sustainable Development: The Role of Syariah Economics?". **Public Lecture**, Universitas Islam Negeri Malang (UINM) Malang, Indonesia, December 17, 2005.
2. "Empowering the Economy under Globalization: A Perspective". **Public Lecture**, Universitas Pembangunan Nasional Veteran (UPNV), Jogjakarta, May 15, 2006.
3. "Sustainable Development, Globalization, Financial Crisis and the Syariah". **Public Lecture** (*Stadium General*), STAIN Surakarta, October 27, 2008.
4. "Money: Shariah and Holistic Perspectives". **Public Lecture**, Islamic Information Center (IIC) Public Lecture Series on - Contemporary Issues: The Financial Crisis, Kuching, February 26, 2009.
5. "Why We Should Care About Economic Sustainability: Lessons from Economic Crises". **Public Lecture**, Universitas Airlangga Surabaya, Indonesia, October 13, 2010.

### Instructor for Specialized Courses for Malaysian Government Agencies

1. "Economic Instruments for Environmental Management". PTK6 Course, organized by Department of Environment (DOE). EiMAS, December 8, 2004.  
Participants: DOE PTK6 course participants.
2. Green GDP Accounting using the SEEA (UN System of Economic and Environmental Accounting). Organized by Department of Statistics, Malaysia, September 19-21, 2006.  
Participants: Statisticians from the Department of Statistics, Malaysia
3. Course on Impact Analysis of Agricultural Projects. Organized by Department of Agriculture Malaysia. Swiss Inn Sg Petani, Kedah. July, 2007. Participants: Officials from Department of Agriculture, various states and districts.
4. Development of Supply Utilization Account and Food Balance Sheet. Organized by Ministry of Agriculture and Agro-based Industry. INTEKMA Resort Shah Alam. June 7 - 9, 2007.



- Participants: Officers from various agencies under the Ministry of Agriculture and Agro-based Industry.
5. Training Workshop on Agricultural Best Practices, organized by Department of Agriculture. Tabung Haji Complex Penang, June 9-12, 2008.  
Participants: Agricultural officers from the Department of Agriculture.  
Topics: Quantitative techniques in socio-economic research, Questionnaires construction
  6. Practical Supply-Utilization Accounts and Food Balance Sheet. Organized by the Ministry of Agriculture and Agro-based Industry. Grand Pacific Hotel Kuala Lumpur, October 24 2009.  
Participants: Officers from agencies under the Ministry of Agriculture and Agro-based Industries.
  7. Course on Training Impact Valuation and SPSS Analysis, organized by Department of Agriculture, Malaysia. Serdang Agricultural Training Institute, July 8 - 10, 2009.  
Participants: Extension officers from various Agricultural Training Institutes throughout Malaysia.
  8. Trade Modelling using the Computable General Equilibrium Model (GTAP7). Economic Planning Unit, Sept 21-23, 2010.  
Participants: Officers and researchers from EPU, MDI, MIER, Statistic Department, Ministry of Agriculture and Agro-based Industry.

### **Instructor at Selected International Training Workshop/Course**

1. Professional Training Workshop on Urban Air Quality Management: Policy and Tools for Integrated Assessment, organized by the Canada SEA-UEMA Project, AIT and MUST, March 27-29 2007, Kuala Lumpur.  
Audience: International participants from SEA countries  
Topics: *Valuing the Heat Reduction Function of Rice Areas using Dose Response Function, Assessing Options for Air Quality Management with Benefit Cost Analysis, Assigning Economic Values to DoseResponse Functions.*
2. Training Workshop on Economic Valuation of the Environment, Balai Penelitian Tanah, Bogor, Indonesia, October 26-27 2005.  
Audience: Researchers from Balai Penelitian Tanah, Bogor, Indonesia  
Topics: *Theoretical Overview of Contingent Valuation (CV) Technique, Construction of CV Questionnaires and Data Analysis, Commissioning a CV Study*

### **Instructor for Development-Based Courses (Selected international and national level courses)**

1. "Emerging Strategies for Sustainable Development in light of Globalization". International Course on "Localising the Anti-Poverty Agenda: The Malaysian Experience", organized by the Ministry of Rural Development Malaysia and Malaysian Technical Co-operation Programme, October 1, 2003.
2. "Strategies for Sustainable Development in Light of Globalization". International Course on "Localising the Anti-Poverty Agenda: The Malaysian Experience", organized by the Malaysian Technical Co-operation Programme and Economic Planning Unit, Malaysia, September 8, 2004.
3. "Globalization and Sustainable Development Intricacies". University Management Course for UINM senior management officials, organized by PKP Universiti Kebangsaan Malaysia, Bangi, November 24 - December 3, 2004.
4. "Sustainable Development and Learning Organization". University Management Course for Universitas Sunan Kalijaga Indonesia, organized by PKP Universiti Kebangsaan Malaysia, December 14, 2006.
5. "Malaysian Economic Development: Policies and Strategies Towards Sustainable Development". MTCP Course on Urban Planning and Management, organized by the Malaysian Technical Co-Operation Programme and INTAN, October 31, 2008.
6. "Management of Environmental Resources: Urban Development & Risk of Exploitation" INTAN Course on Hazard Management. Bukit Kiara, February 16, 2009.

7. "Management of Environmental Resources and Sustainable Urbanization". INTAN Course on Urban Resource Management. Bukit Kiara, May 4, 2009.
8. "International Financial Crisis and Challenges Impinging Syariah Economics". MIDF Directors Discourse. Menara MIDF, Jalan Raja Chulan, Kuala Lumpur, April 16, 2009 .
9. "Development Planning and Sustainable Development". MIER-MIDA Training Program on Benefit-Cost Analysis. March 24-25, 2014. MIDA, KL Sentral.

### **Participation in Selected Professional Courses**

1. International Trade Modelling with GTAP. Organized by Center of Policy Studies (COPS), Monash University and University of Pretoria, South Africa. Pretoria, October 29 - November 2, 2007
2. Contributing I-O Tables to the GTAP Database. Organized by Purdue University, US. Helsinki, Finland, June 15-16, 2008.
3. Practical General Equilibrium. Organized by Center of Policy Studies (Cops), Monash University and Tsinghua University. Beijing, China, April 7-12, 2009.
4. Database Construction for CGE Models. Organized by Center of Policy Studies (COPS), Monash University. Monash, Australia, July 13-14, 2009.
5. Technical Training on PAGE 2009 Model (Economic Analysis Model of Climate Change), organized by EPU (Environment and Natural Resource Section). Marriott Putrajaya, September 28-30, 2010
6. Strengthening Planning Capacity for Low Carbon Growth in Developing Asia: Regional Capacity Building Workshop, organized by ADB. Bangkok, October 11-13, 2012.

### **Marked Contribution to University and Country**

1. Pioneered the inception and development of the Resource and Environmental Economics Program at the Faculty of Economics, UKM (1997 - 2000). It is a now a strong focus at the Faculty.
2. Introduced/pioneered the concept and implementation of Ph.D program qualifying/preliminary examinations at the Faculty of Economics and Management, UKM, 1996.
3. Spearhead the introduction and capacity building of environmental valuation in Malaysia through a UNEP grant obtained in 1997. Environmental Valuation has now made inroads into:
  - National Environment Policy, 2001
  - Made mandatory in EIA processes with the adoption of the 2007 DOE Guidelines on Economic Analysis of Environmental Impacts in EIA.
  - Ongoing deliberation on the establishment of Payment for Environmental Services (PES) Framework for Malaysia (since 2011).
4. Pioneered and advocated the notion of Agricultural Multifunctionality concept in Malaysia (since 1998) within the Department of Agriculture and Ministry of Agriculture and Agrobased Industry - currently making inroads into national agricultural policy debates.
5. Participated as Committee Member for the establishment of the UKM Graduate School of Business (UKM GSB), 2003-2004.
6. Instrumental in developing the graduate level program on West Asian Studies for the UKM Institute of West Asian Studies (IKRAB), 2007-2008.
7. Instrumental in developing and advocating an alternative framework on Beyond GDP indicators to measure the macro-sustainability of the Malaysian Economy. Measures include Green GDP, Genuine Savings and Genuine Progress Indicator.
8. One of the pioneer internal auditors for the quality assurance programs at UKM - Code of Practice for Programme Accreditation (COPPA) and Code of Practice for Institutional. Audit (COPLA), 2008/2009.

9. Contributed to policy inputs on the Green Economy/Economic Sustainability and Services Sector resiliency in the deliberation of the Malaysian New Economic Model via the NEAC, Prime Minister's Department, 2009.
10. Participated in the EPU discussion series on the Economics for Climate Change Malaysia (ECCM), 2010 - 2011.
11. Developed the customized, dynamic version of GTAP-E for climate change policy modeling (mitigation) incorporating REDD-Plus scenarios for Malaysia.

## **Personal**

- *Date and Place of Birth:* October 26, 1959; Segamat, Johor.
- *Language Proficiency (written and spoken):* English (10/10), Bahasa Malaysia (10/10), Bahasa Indonesia (10/10), Arabic (6/10)
- *Personal Interest and Passion:* Music, nature and cultural-history adventure.