

CURRICULUM VITAE



1 PERSONAL DATA

Name: **CHAN NGAI WENG**
 Gender: Male
 Date of Birth: 17th April 1954
 Citizenship: Malaysian
 Marital Status: Married
 Children: 3
 Current Position: Professor
 Field of Specialisation: Hydroclimatology, Water Resources and Hazards Management

2 EDUCATION & TRAINING

<u>College/University</u>	<u>Qualification/Degree</u>	<u>Date</u>
University of Malaya	B.A. (Hons) Geography, 2 nd Class Upper	1977
University of Malaya	M.A. (Climatology and Meteorology)	1981
Middlesex University (UK)	PhD (Environmental Hazards Management)	1995

<u>Awarding Organisation</u>	<u>Certificates/Diplomas</u>	<u>Date</u>
American Red Cross (Mid-South Chapter)	Adult, Infant & Child CPR	2001
American Red Cross (Mid-South Chapter)	Community, First Aid & Safety	2001
Japan International Cooperation Agency (JICA)	Certificate in "Capacity Building For Environmental NGOs"	2003
The Malaysian Environmental NGO (MENGO)	Certificate in "Conflict Management and Consensus Building"	2006

3 WORKING EXPERIENCE

<u>Position</u>	<u>Organisation/Department</u>	<u>Date</u>
Tutor	University of Malaya	1977-1986
Lecturer	Universiti Sains Malaysia	1986-1996
Tutor (Part-Time)	Middlesex University (UK)	1991-1995
Associate Professor	Universiti Sains Malaysia	1996-2001
Visiting Professor (Fulbright)	The University of Memphis	2000-2001
Professor Grade C (VK7)	Universiti Sains Malaysia	2001-2008
Professor Grade B (VK6)	Universiti Sains Malaysia	2009-2017
Professor (Flexible Retired Scholar Scheme)		2017

Academic Assessor	Environmental Management Programme Universiti Kebangsaan Malaysia	2005
Visiting Professor	Urban Environmental Management Department Asian Institute of Technology	2006-2007
Academic Assessor	Assessing Panel for Environmental Management Universiti Tun Hussein Onn Malaysia (UTHM)	2007
Panel Assessor	Malaysian Qualification Agency	2008
Externer Assessor	University of Malaya Staff Promotion Panel	2011

4 AWARDS, SCHOLARSHIPS, PROFESSIONAL MEMBERSHIPS, AFFILIATIONS AND ACADEMIC RECOGNITION

AWARDS:

Certificate of Service Excellence – Awarded by Universiti Sains Malaysia to the top 5 % of employees. Awarded three times in 1995, 2000 and 2011.

Fulbright Scholar Programme – Awarded the Malaysian-American Center for Educational Exchange (MACEE) to conduct research and teaching in the University of Memphis, Tennessee, USA from October 2000 to March 2001.

Malaysian Exchange Researcher For FY 2002 JSPS-VCC Cooperative Program (Environmental Science, Engineering & Ethics) – Awarded by Malaysian and Japanese Governments via Institute of Research Management and Consultancy Uni of Malaya. 1–10 Nov 2002.

Medal for Outstanding Service – Awarded by The Penang State Government on the occasion of the Governor of Penang's 67th Birthday on 14 July 2005. This medal is awarded to a select group of citizens who have contributed significantly to the development and welfare of the state.

Post-Doctoral Research Fellowship (as Visiting Professor) under the CIDA-AIT Partnership, SEA-UEM Project at Asian Institute of Technology, Thailand – Awarded by CIDA-AIT Partnership, SEA-UEM Project to conduct research and teaching in the Urban Environmental Management Department, School of Environment, Resources and Development, Asian Institute of Technology, P.O. Box 4, Klong Luang, Pathumthani, Thailand from 1st May 2006 to 30 April 2007.

(Top Researcher of School of Humanities USM 2007 – Awarded by School of Humanities USM.

Merit of State Champion – Awarded by The Penang State Government on the occasion of the Governor of Penang's 70th Birthday on 11 July 2009. This medal is awarded to a select group of citizens who have contributed significantly to the development and welfare of the state.

Winner of Asia Water Management Excellence Awards 2010 Individual Category (National) – Awarded by Asian Water Magazine and the Asiawater Organising Committee (Includes International Water Association, The Malaysian Water Association, Ministry of Energy, Green Technology and Water, Malaysia and MAMB Exhibitions) at the Asia Water 2010 Conference & Exhibition, 6-8 April 2010, Kuala Lumpur Convention Centre. This is Asia's most prestigious water industry awards and is held in conjunction with Asiawater Expo & Forum. The award is given to water professionals who have contributed significantly to the field of water science in terms of development, innovation and conservation towards the sustainability of water resources.

Community Service Award 2011 by Universiti Sains Malaysia – Awarded by Universiti Sains Malaysia, 2012.

PROFESSIONAL MEMBERSHIPS, AFFILIATIONS AND ACADEMIC RECOGNITION:

International:

Vice President (2013-2015)

International Water Resources Association (IWRA) (<http://iwra.org/>)

Editorial Board Member

IWRA (India) Journal (Half Yearly Technical Journal of Indian Geographical Committee of IWRA)
(2011-Present)

Editorial Committee Member

APRU-USM Asia Pacific Studies Publication Series (AAPSPS)

Asia-Pacific Research Unit (APRU)

School of Humanities, Universiti Sains Malaysia (2007-Present)

Executive Board Member (2010-2012)

International Water Resources Association (IWRA) (<http://iwra.org/>)
(1st Jan 2010 – 31st Dec 2012)

Member

International Water Association (<http://www.iwahq.org>)
(3 July 2009-Present)

Member of Editorial Board

Editorial Board

Malaysian Journal of Environmental Management (August, 2007- Present)

Member of Editorial Board

Editorial Board of “Water International”

Journal of the IWRA (March 1, 2007- February 28, 2009)

Member of Editorial Board

Iranian Journal of Environmental Health Science & Engineering

P.O.Box: 14185-789 Tehran, Iran (November 2004 – Present)

Visiting Academic

School of Geography & Environmental Management

Middlesex University, Queensway, Enfield, Middlesex EN3 4SF

UNITED KINGDOM (1 August 1998 - Present)

Visiting Professor

Department of Geography, The University of Memphis

TN 38152, UNITED STATES (17 August 2000 – 8 July 2001)

Member

International Water Resources Association (IWRA) (April 1998 - Present)

Member

Association of American Geographers

(2001, 2009-Present)

National:

Evaluator of Fundamental Research Grants Scheme (FRGS)
 Ministry of Education Malaysia
 (2014-2019)

Externer Assessor
 Panel for Promotion of Academic Staff to Professor & Associate Professor
 University of Malaya, Faculty of Arts 50603 Kuala Lumpur (18 April 2011-30 April 2014)

Vice-Chairperson
 Malaysian Water Partnership
 Department of Irrigation and Drainage, Malaysia
 Jalan Sultan Salahuddin, 50626 Kuala Lumpur (22 April 2011-21 April 2013)

Research University Grant Reviewer 2010
 29-30 June 2010, INFORMM, Universiti Sains Malaysia
 C/O Socail Transformation Platform, Office of Research Platform
 Universiti Sains Malaysia (22 June 2010)

Paper Reviewer
 Pertanika Journals
 C/O Dr Nayan Deep S Kanwal
 Executive Editor, Pertanika Journals, Research Management Centre (RMC)
 Universiti Putra Malaysia (23 June 2010 - Present)

Panel of Reviewer and Paper Assessor
 Journal of Social Sciences & Humanities (JSSH)
 C/O Research Management Centre (RMC)
 Universiti Putra Malaysia (6 November 2009 - Present)

Panel of Reviewer and Paper Assessor
 Journal of Sustainability Science and Management
 C/O Universiti Malaysia Terengganu (15 June 2009 - Present)

Panel of Reviewer and Paper Assessor
 Jurnal Kemanusiaan (Asian Journal of Humanities)
 C/O School of Humanities USM (January 2009 - Present)

Life Member (Membership Number: INDM0052)
 Malaysian Water Partnership (MyWP)
 C/o Department of Irrigation and Drainage Malaysia
 Jalan Sultan Salahuddin, 50626 Kuala Lumpur (April 2005 – Present)

External Academic Assessor
 Environmental Management Programme of Centre for Postgraduate Studies
 Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor (April 2005)

Committee Member
 National Geography Association of Malaysia
 C/O Geography Section, School of Humanities
 Universiti Sains Malaya, 11800 Penang (28 April 2003 - 2006)

Member

Malaysian National Committee on Irrigation and Drainage (MANCID)
JPS Malaysia, Jalan Sultan Salahuddin, 50626 Kuala Lumpur (13 November 2001 - Present)

President

Malaysian Nature Society, Penang Branch
17 Jalan Tanjung SD 13/2, Bandar Sri Damansara,
52200 Kuala Lumpur , Malaysia (July 1998 – July 2000)

President

Water Watch Penang (WWP)
C/O School of Humanities, Universiti Sains Malaysia
(November 1997 – July 2000; 2001-Present)

Member

Malaysian Water Association (MWA)
C/O Office of Director of Water Supplies, Jabatan Kerja Raya Malaysia
Jalan Sultan Salahuddin, 50582 Kuala Lumpur (January 1999 - Present)

Member

Malaysian Scientific Association
P.O. Box 10911, 50728 Kuala Lumpur (March 2000 – Present)

5 LIST OF COMPLETED AND CURRENT RESEARCH PROJECTS WITH DATES:

Completed Projects:

- (1) Chan N W **A Quantitative Analysis of Rainfall Patterns and Drought Occurrences in Northwest Peninsular Malaysia**. M.A. Dissertation Research, Funded by the University of Malaya via Tutorship Scheme worth RM36,000.00 over 3 years (June 1977 - January 1981).
- (2) Chan N W **The Climate of Penang Hill : A General View of Existing Climatic Conditions as Compared to its Surrounding Lowlands**. Funded by Universiti Sains Malaysia's Short-term Research Grant Project titled 'Kajian Tentang Ciri-Ciri Persekitaran dan Diversiti Flora dan Fauna Bukit Bendera Pulau Pinang'. A total of RM13,736.00 was approved (February 1991 - August 1991).
- (3) Chan N W **Amalan-Amalan Penanaman Padi Di Sawah Sempadan dan Sungai Burong, Mukim Tanjong Karang dan Pengaruhnya Terhadap Perubahan Kualiti Air Permukaan**, Funded by Universiti Sains Malaysia's R & D Social Science Research Grant Project titled 'Satu Kajian Tentang Perubahan Kualiti Air Permukaan Akibat Aktiviti-Aktiviti Dalam Kitaran Penanaman Padi di Mukim Tanjong Karang, Daerah Kuala Selangor' (August 1988 -August 1991). A total of RM89,390.00 was approved (Translation: Padi Farming Practices in Sawah Sempadan and Sungai Burong, Mukim Tanjong Karang and its influences on Surface Water Quality Changes')
- (4) Chan N W **A Contextual Analysis of Flood Hazard Management in Peninsular Malaysia**, PhD Research Project jointly funded by Universiti Sains Malaysia and Middlesex University. Total funding inclusive of scholarship amounts to RM168,000.00 (September 1991 - September 1995)
- (5) Chan N W **The Influence of Climate, especially Floods, on Agriculture, Tourism and Other Economic Activities in the East Coast of Peninsular Malaysia**, Short term Research Grant, Universiti Sains Malaysia totaling RM18,940.00 (August 1995 - August 1997).
- (6) Chan N W (Team leader & Hydrologist); Dr Wan Ruslan Ismail (Geomorphologist); Dr Ab Latif Ibrahim (Climatologist/Water Resource Expert); and Associate Professor Dr Morshidi Sirat (Urban/Industrial Geographer and Planner). A total of RM44,840.00 was approved by the Institute of

Strategic and International Studies (ISIS) Malaysia for our research project "**Urban Sustainability and the Effects of Rapid Socio-Economic, Industrial and Infrastructure Development in Penang Island on the Environment, with special reference to Soil Erosion, Landslides, Water Pollution and Flooding**" (September 1996 - April 1998).

(7) Chan N W **Hill Land Development and Effects On The Environment: Some Case Studies In Bukit Bendera (Penang), Bukit Larut (Perak) And Cameron Highlands (Pahang)**. IRPA Short Term Research Grant, Universiti Sains Malaysia. A total of RM14,380.00 was approved for this project (1 August 1998 - 31 July 1999).

(8) Chan N W **Current And Future Situation of Freshwater Water Resources in Penang: Some Projections And Recommendations On The Long Term Water Security Of Penang State**. Short Term Research Grant, Water Watch Penang (WWP), 10 Persiaran Bt Jambul (International College), 11900 Bayan Lepas, Penang. (1 September 1998 - 31 August 1999).

(9) Chan N W **Managing Water Resources in The 21st Century In Malaysia**. A Research Grant to produce a book. Funded by the Alliance for a responsible and United World (Paris). A Total of RM10,000.00 was approved for this project (1 September 1998 - 31 December 1999).

(10) Chan N W **Awareness and Educational Programme for Water Conservation in Penang**. A Water Watch Penang (WWP) Project funded by the Penang Water Corporation (Perbadanan Bekalan Air Pulau Pinang). Total funding is RM50,000.00 (1 June 1999 - 31 May 2000).

(11) Chan L K, Che Salmah, Chan N W and Ho S H *Climate and Hydrology of Pantai Acheh Forest Reserve, Penang*. Part of the Malaysian Nature Society (Penang Branch) Project on **Climate, Hydrology, Flora and Fauna Diversity and the Role of the Pantai Acheh Forest Reserve as a National Park in Pulau Pinang**. A Total of RM14,000.00 was approved for this project (1 December 1999 - 31 -December 2000).

(12) Lee S M, Khor H T, Foon, S Y, Yeoh, O B, Chan N W and Teh, K H **Youth Action For Water – Active Watershed Education (AWE) Programme**. Ford Motor Company Conservation & Environmental Grants 1999. Grant awarded to Water Watch Penang (WWP). A Total of RM15,000.00 was awarded for this project (1 March 1999 – 28 February 2000).

(13) Chan, NW, Hajar Abdul Rahim, Khor H T and Baharulnizam Baharum **Publication of “Learning About Water – A Training Manual”**. Ford Motor Company Conservation & Environmental Grants 2000. Grant awarded to Water Watch Penang (WWP). A total of RM10,000.00 was awarded under this project (1 March 2000 – 28 February 2002).

(14) Chan N W and Kung H T **Fulbright Scholar Programme – Management of Flood Hazards in the Memphis Area, Tennessee, USA and Management of Flood Hazards in Penang, Malaysia: A Comparative Study**. A joint research programme worth \$15,050.00 approved under the Malaysian-American Center for Educational Exchange (MACEE). The other researcher is Professor Hsiang-te Kung of the Department of Geography, University of Memphis, Tennessee, USA. The period of the research is from 17 August 2000 to 30 June 2001.

(15) Chan N W **Assessment of Available Water Resources, Water Supply and Demand, Issues, Threats and Recommendations for Sustainable Development of Water Resources in Penang in the 21st Century**. Funding applied for under the Short-term Intensification of Research in Priority Areas (IRPA) of the Ministry of Science, Technology and the Environment (MOSTE) of Malaysia. I am the sole researcher. Total funding approved is RM8,698.20. (August 2000 to July 2002).

(16) Chan N W **An Assessment of Climate Change in Cameron Highlands**. IRPA Short-term Research under the 8th Malaysia Plan totaling RM17,014.00 (Research Period is 1.4.2002-31.3.2003).

(17) Chan N W, Barrow C J and Clifton J **Land Use, Land Development and Control of Environmental Degradation in Highland areas of Peninsular Malaysia: Supporting Sustainable Livelihoods**. DFID, The British Council Higher Education Links. Joined project together with (Dr) C.J. Barrow [UNIV. WALES SWANSEA] and (Dr) J. Clifton [PORTSMOUTH UNIV.]. Total Funding sought is RM12,000.00 (Research period is 01 APRIL 2002 - 31 MARCH 2005).

(18) Chan N W, Barrow C J and Clifton J **Sustainable Development of Cameron Highlands: Issues & Challenges**. DFID. The British Council Higher Education Links. Joined book project with (Dr)

C.J. Barrow [UNIV. WALES SWANSEA] and (Dr) J. Clifton [PORTSMOUTH UNIV.]. Funding totaled RM4,500.00 for the publication of a book (Research Period is 1 May 2005 - 31 July 2005).

(19) Chan N W **Developing a Model of Flood Hazards on Urban Floodplains in Malaysia**. Universiti Sains Malaysia Fundamental Research Grant (FRGS) Year 2003. Total funding approved is RM66,530.00. Prof Koh H L and Assoc. Prof. Aminuddin Ab Ghani were later incorporated into the research (Research Period is from 1 October 2003 - 30 September 2005).

(20) Chan, NW, Hajar Abdul Rahim, Khor H T and Teng, D. **Production of a VCD on River Conservation Using Sungai Pinang as The Model**. Ford Motor Company Conservation & Environmental Grants 2000. Grant awarded to Water Watch Penang (WWP). A total of RM12,000.00 was awarded under this project (Research Period is 12 December 2003 – 11 December 2004).

(21) Chan N W, Norizan Md Nor and Suriati Ghazali **Environmental Change and Sustainable Tourism: A Study of Impacts, Benefits and Involvement of Orang Asli Communities Along the Perak-Pahang-Kelantan Borders**. IRPA Short-term Research under the 8th Malaysia Plan. This is a joint project with Associate Professor Dr Norizan Md Nor and Dr Suriati Ghazali. Total funding sought is RM19,974.00 (Research Period is 1 April 2004 - 31 March 2005).

(22) Chan, NW, Abu Hassan, Che Salmah Rawi, Jabil Mapjabil, Edlic Sathiamurthy, Hajar Abdul Rahim, Khor H T and Teng, D. **Water Conservation Projects 2005 in Penang**. Penang Water Corporation Grant 2005. Grant awarded to Water Watch Penang (WWP). A total of RM50,000.00 was awarded under this project (Research Period is 1 January 2005 – 31 December 2005).

(23) Chan, NW, Abu Hassan, Che Salmah Rawi, Jabil Mapjabil, Khor H T, Teng, D and Chang, W F **Water Conservation Projects 2006 in Penang**. Penang Water Corporation Grant 2005. Grant awarded to Water Watch Penang (WWP). A total of RM50,000.00 was awarded under this project (Research Period is 1 January 2006 – 31 December 2006).

(24) Chan N W **A Comparative Study of Community Water Resources Management in Thailand and Malaysia with Emphasis on the Role of Women**. Asian Institute of Technology, Southeast Asia Urban Environmental Management Applications (SEA-UEM) Project. Post-Doctoral Fellowship Research Sponsored by CIDA-AIT. A total of 150,000.00 Baht (RM15,000.00) was awarded under this project (Research Period is 1 May 2006 – 30 April 2007).

(25) Chan, NW, Che Salmah Rawi, Jabil Mapjabil, Khor H T, Teng, D and Chang, W F **Water Conservation Projects 2007 in Penang**. Penang Water Corporation Grant 2007. Grant awarded to Water Watch Penang (WWP). A total of RM40,000.00 was awarded under this project (Research Period is 1 January 2007 – 31 December 2007).

(26) Barrow C J and Chan N W **Highlands Under Threat in Malaysia: Assessing The Key Problems And Identifying Sustainable Development**. The British Academy, 10 Carlton House Terrace, London SW1Y 5AH. Joint project together with (Dr) C.J. Barrow as Head [UNIV. WALES SWANSEA]. Total Approved Funding is £18,073 (Approximately RM126,500.00 (Research Period is 1 October 2006 – 1 October 2008).

(27) Chan, NW **MNS-ABN AMRO Conservation Fund Projected titled “River and Water Awareness and Education Programme for Schools in Penang”**. Grant awarded to Water Watch Penang (WWP). A total of RM20,000.00 was awarded under this project (Research Period is 1 October 2007 – 30 September 2008).

(28) Chan N W **Ecotourism and Environmental Conservation in Small Islands in the East Coast of Peninsular Malaysia**. Universiti Sains Malaysia Short Term Research Grant (A/C No. 304/PHUMANITI/637069). Amount approved is RM15,930.00 (Period of research 15 October 2006 – 14 October 2008).

(29) Chan N W (Leader), Che Salmah Md Rawi and Tarmiji Masron **Modelling Environmental Awareness, Perception, Education and Lifestyle Changes in Environmental Conservation in Major Cities in Malaysia**. FRGS Grant 203/PHUMANITI/671011 (Research Period is 1 November 2006 - 31 October 2009 & Amount Approved is RM60 000.00).

(30) Jabil Mapjabil (Leader), Chan N W, Norizan Md Nor and Suriati Ghazali **Developing A Comprehensive Model on Ecotourism Incorporating Local Communities, tour Operators,**

Hoteliers and Tourists Towards Sustainable Development in Highlands Areas in Malaysia. FRGS Grant 203/PHUMANITI/671014. (Research Period is 1 November 2006 - 31 October 2009 & Amount Approved is RM60 000.00).

(31) Anisah Lee Abdullah (Leader), Chan N W and Suriati Ghazali **Traditional Coastal Fishing Communities in North Malaysia: Towards A New Model For Sustainability. Fundamental Research Grant Scheme (FRGS)** (Research Period is 1 September 2007 - 31 August 2010 & Amount Approved is RM60 000.00).

(32) Chan N W (Leader), Jabil Mapjabil and Tarmiji Masron **Tourist Perception, Needs and Willingness to Pay for Tourism Products and Facilities in Kinabalu Park, Sabah.** Universiti Sains Malaysia “Short Term Research Grant” 304/PHUMANITI/638149 (Research Period is 1 July 2008 – 30 June 2010 & Amount Approved is RM19,983.00).

(33) Saidatulakmal Mohd (Leader), Chan N W and Jacqueline Liza Fernandez **The Forgotten Heritages of Penang – Contingent Valuation Study.** Universiti Sains Malaysia “Research University Grant” 1001/PSOSIAL/816075. (Research Period is 2 Years: 15 November 2008 – 14 November 2010 & Amount Approved is RM152,108.68).

(34) Asha Suresh Chand (Leader), Soo, L.C. and Chan N W **The Tasik Harapan Clean-up Project Using Effective Microbes (EM).** Cimb Bank Berhad funded Project worth RM105000.00 (Research Period is 1 August 2010 – 31 March 2011. This project is to be extended for another 6 months with additional funding from Cimb Bank Berhad).

(35) Chan N. W. (Leader), Cheok Kian Sheong, Mandy Koay, Edina Crnkic, Tan O.K., Mohamad Abdullah **Responsible Water Consumption Study in USM Saujana Café: A Dishwashing Study Pitting Dishwasher Against Manual Washing by Hand.** Grant sponsored by Reckitt Benckiser (M) Sdn Bhd totalling RM28,200.00. Period of Study is March 2010 to January 2011.

(36) Abu Talib Ahmad (Leader), Chan N W (Team Leader on Natural Heritage and Man-Environment Reklationships), Sohaimi Abdul Aziz (Team Leader on Cultural Heritage), Ooi K G (Team Leader on Historical Heritage), Jelani Harun, Hajar Rahim and Ruslan Rainis (Team Leader on GIS) **Natural and Cultural Heritage Focussing on the Northern Region of Peninsular Malaysia (Perlis, Kedah, Penang and North Perak).** Universiti Sains Malaysia “Research University (RU) Grant” 1001/PHUMANITI/816037 (Research Period is 1 October 2007 – 30 September 2010. Approved Amount is RM985,600.00).

(37) Chan N W (Leader), Asyirah Abdul Rahim and Narimah Samat **A Comparative Evaluation of The Potentials, Needs And Sustainability of Taman Negara National Park, Kinabalu National Park and Langkawi Geopark As Ecotourism Sites.** Universiti Sains Malaysia “Research University (RU) Grant” 1001/PHUMANITI/816097 (Research Period is 15 May 2009 – 14 May 2011 & Amount Approved is RM93,969.12).

(38) Chan N W (Main Supervisor) and Hong Chern Wern (PhD Candidate) **Sustainable National Park Management Modelling by Using the Driving Force-Pressure-State-Impact-Response (DPSIR) Framework: The Case of Penang National Park.** Universiti Sains Malaysia “Incentive Grant (Postgraduate Student)” 1001/PHUMANITI/821103 (Research Period is 6 Jan 2009 – 31 Dec 2012 & Amount approved is RM15,000.00).

(39) Chan N W (Leader) and Tarmiji Masron **The Significance of Human Factors in Effective Disaster Management in Malaysia: A Case Study of Flood Disasters.** Universiti Sains Malaysia “Research University (RU) Grant” 1001/PHUMANITI/816106 (Research Period is 1 June 2009 – 30 May 2011 & Amount approved is RM99,990.00).

(40) Chan N W (Main Supervisor) and Azreen Rozainee Binti Abdullah (PhD Candidate) **Sustainable Natural Heritage Management of Royal Belum.** Universiti Sains Malaysia “Incentive Grant (Postgraduate Student)” 1001/PHUMANITI/821103 (Research Period is 1 Sep 2009 – 31 Oct 2012 & Amount approved is RM15,000.00).

(41) Chan, N.W. (PI), Wan Ruslan Ismail, Abu Talib Ahmad and Ajindar Kaur **“Transforming School of Humanities Into An Example of A Best Management Practice (BMP) in Water Demand Management (WDM) In Terms Of Water Sustainability”.** Universiti Sains Malaysia

“Delivering Excellence APEX Budget 2011” Grant. Account Number 1002/PHUMANITI/910301 (Project Duration is 25 March 2011 – 31 December 2011 & Total Grant awarded is RM327,000.00).

(42) Norizan Md Nor (PI), Chan N W, Lee L M, Salfarina et al. **“Delivering Excellence: APEX 2011: An Integrated Approach to Sustainable Rural-Urban Development for Rakyat Sejahtera”**. Universiti Sains Malaysia “Delivering Excellence APEX Budget 2011” Grant (Tempoh Projek ialah 25 Mac 2011 – 31 Disember 2011 & Jumlah Projek Yang diluluskan ialah RM600,000.00).

(43) Chan N W (PI), Mashhor Mansor, Lai Sai Hin and Narimah Samat. **A Study of River Models in Malaysia**. Account Number 203/PHUMANITI/6711198. Duration - 1 July 2011 to 30 June 2013. RM50,000.00 approved. Fundamental Research Grant Scheme (FRGS). 203/PHUMANITI/6711198

(44) Narimah Samat (PI), Chan N W et al. **“Modelling and Identifying Sustainable Urban Growth Boundary: A Study on Georgetown Conurbation and its Impact on Urban And Peri-Urban Ecosystems”**. Project Number 203/PHUMANITI/6711199. 1 August 2011-31 July 2013. RM50,000.00 approved. Fundamental Research Grant Scheme (FRGS).

(45) Nor Azazi Zakaria (PI), Chan N W. (Team Leader 1), Mohd Nor Desa (Team Leader 2), et al. **Urban Water Cycle Processes, Management & Societal Interactions: Crossing from Crisis to Sustainability**. Kementerian Pendidikan Tinggi Long Term Fundamental Grant Scheme (LRGS) 2011-2016. RM10 million approved.

(46) Chan N. W. (PI), Mazlin Mokhtar, Salmijah Surif, Chamhuri Siwar, Lee Yook Heng, Jamaluddin Md Jahi, Maimon Abdullah, Maketab Mohamed, Suriati Ghazali, Narimah Samat, Asyirah Abdul Rahim, Lok Chong Hoe, Noor Shakirah Mat Akhir **Human Aspects of Water Security Focussing on Governance, Water Demand Management and Non-Revenue Water Management in Urban Areas in Malaysia**. Kementerian Pendidikan Tinggi Long Term Fundamental Grant Scheme (LRGS) 2011-2013. Account Number 203/PKT/6724003. RM1,013,400.00 approved. 203/PKT/6724003. Jun 2011-Jun 2014.

(47) Chuah Chiew Yen (PI) and Chan N W (Main Supervisor) **Assessing the Effectiveness of Environmental Education System in Secondary Schools in Penang, Malaysia**. Universiti Sains Malaysia “Postgraduate Research Grant Scheme (PRGS) 1001/PHUMANITI/837071 (Research Period is 15 Sep 2011 – 14 Sep 2013 & Amount approved is RM3,335.00).

(48) Jamaluddin Md Jahi (PI) and Chan N. W. **Dampak Pembangunan terhadap Alam Sekitar dan Kepentingan Pengurusan Alam Sekitar Bersepadu di Provinsi Riau, Indonesia**. Government of Riau Province, June 2012 to August 2013. RM1,000,000.00 approved.

(49) Yasuyuki Sawada (Project Leader), Fukunari Kimura, Sothea Oum, Sommarat Chantarat, Sujata Satapathy, Brent Layton, Mitsuyo Ando, Le Dang Trung, Sann Vathana, Danilo Israel, Jonathan A Lassa, Ngai Weng Chan, Allen Lai Yu Hung, Nipon Poapongsakorn and Pitsom Meethom and Ikumo Isono. **ERIA Research Project 2011 Working Group on "Economic and Welfare Impacts of Disasters in East Asia and Policy Responses"**. Awarding Agency is Economic Research Institute for ASEAN and East Asia (ERIA). Duration - 12 Mar 2011-5 Mar 2012. Sub-Project Under me is titled “impacts of disasters and disaster risk management in Malaysia: the case of floods”. Total Grant Approved RM22,000.00.

(50) Chan N W (PI) Participatory approaches in urban water management in Asia, for the city of Georgetown, Penang. **Lee Kuan Yew School of Policy, National University of Singapore International Grant** of SGD4500.00 (RM11,584.71). Duration of project 2013-2014.

(51) Badaruddin Mohamed (PI), Chan N. W., Alias Abdullah, Vikneswaran Nair, Nimatul Adha Nordin, Awangku Hassanah Pengiran Bagul, A’zizan Hussain **Physical & Environmental Rural Tourism Capacity Framework**. Kementerian Pendidikan Tinggi Long Term Fundamental Grant Scheme (LRGS) 2011-2016. Account No. 304/PPBGN/650570/T121. RM1,944,888.00 approved.

(52) Chan Ngai Weng (PI), Ku Ruhana (UUM), Mohamad Zaini Karim (UUM), Abdul Razak Chik (UUM), Sallahuddin Hassan (UUM) and Fader Abdullah (UiTM, Perlis). **Long Term Research Project (LRGS) under UUM titled “Economic Model for Flood Disaster Impact Analysis”**, RM20,000.00, 01 August 2012 – 31 July 2016. Account Number 304/PHUMANITI/650710/U143.

(53) Chan Ngai Weng (PI), Main Rindam, Radiah Yusof and Nabsiah Abdul Wahid. **Engaging and educating orphans and primary school children in water and wastewater quality awareness and monitoring in Penang.** University-Industry-Community Engagement Grant from Division of Industry & Community Network USM. Duration is from 1 July 2012 to 31 December 2015. Grant Amount is RM28,427.00.

(54) Chan Ngai Weng (PI), Narimah Samat and Suriati Ghazali. **Socio-economic Wellbeing: Assessing Total Flood Impacts Via Direct or Indirect and Tangible or Intangible Impacts of Flood Disasters in the Sg Kelantan Basin.** Ministry of Education Fundamental Research Grant Scheme (FRGS) Flood Management Grant 2015. Duration is from 1 April 2015 to 31 December 2015. Grant Amount is RM70,000.00. Account Number 203/PHUMANITI/6711476.

(55) Chan Ngai Weng (PI), Lee Lai Kuan, Narimah Samat, Aminuddin Ab Ghani and Suriati Ghazali. **Governance for Disaster Risk Reduction: Enhancement of Standard Operating Procedures (SOP) on Flood Disaster Awareness, Preparedness, Warning System, Evacuation Plan & Institutional Arrangements for Flood Risk management in the Sungai Pahang River Basin.** Ministry of Education Transdisciplinary Research Grant Scheme (TRGS) on Flood Management 2015 under the TRGS Programme titled "Flood and Flood Disaster: Integrated Assessment of Extreme Rainfall and Microbial Variability, and Enhancement of Standard Operating Procedures (SOP) for Flood Disaster Awareness: Case Study of **Sungai Pahang River Basin**." Duration is from 1 April 2015 to 31 December 2015. Grant Amount is RM105,710.00. Account Number 203/PHUMANITI/6767005.

(56) Chan Ngai Weng (PI) and Seow Ta Wee. **Effects of Floods on Human Society and the Role of Social Capital in Recovery in Malaysia.** Fundamental Research Grant (FRGS) from Ministry of Education. Duration from 1st July 2014 to 30 June 2016. Grant amount is RM87,000.00. Account Number 203/PHUMANITI/6711393.

(57) Chan Ngai Weng (PI) **Environmental Education Via Environmental Quiz for Poor Students in Lower Secondary Schools di Penang State Towards Producing Environmentally Sensitised Citizens.** University-Industry-Community Engagement Grant from Division of Industry & Community Network USM. Duration is from 1st August 2014 to 31st July 2015. Grant Amount is RM12,000.00.

(58) Syed Zainal Ariff bin Syed Jamaluddin (PI), Chan Ngai Weng and Norizan Md Nor. **Program Kelestarian Bahasa, Tenaga dan Alam Sekitar antara USM dan Sekolah Menengah di Pulau Pinang.** University-Industry-Community Engagement Grant from Division of Industry & Community Network USM. Duration is from 15 August 2014 to 14 August 2015. Grant Amount is RM6,000.00.

(59) Seow Ta Wee (PI), Chan Ngai Weng (Mentor), David Martin, Goh Kai Chen & Goh Hui Hwang. **Developing Optimization Model for Solid Waste Management in Johor Bahru City, Johor. Research Acculturation Collaborative Effort (RACE) Fasa 2/2013.** Grant is from Ministry of Higher Education Malaysia. Duration from 9th July 2014 to 31st December 2014. Grant amount is RM20,000.00 for Mentor. Account Number 1001/PHUMANITI/AUPRM0058.

(60) Sulzakimin Hj Mohamed (PI) and Chan Ngai Weng (Mentor). **Enhancing Performance in Malaysia Local Governments Towards Sustainable Development Focussing on Knowledge Transfer Practices Framework. Research Acculturation Collaborative Effort (RACE) Fasa 3/2015.** Grant is from Ministry of Education Malaysia. Duration from 14th May 2015 to 15th May 2016. Total grant amount is RM10,000.00 for Mentor. Account Number 1001/PHUMANITI/AUPRM00531.

(61) Chan Ngai Weng (PI) and Masazumi Ao. **Collaborative Learning of Integrated River Basin Management: A Comparative Study of the Tsurumi River Management Model and Pinang River Management Model.** The sumitomo Foundation Fiscal 2014 Grant for Japan-related Research Projects. Duration 31 April 2015 – 31 March 2016. Grant Amount is US\$6500.00 (RM23,354.50).

(62) Chan Ngai Weng (PI), Masazumi Ao and Hidefumi Imura. **Research, Development and Publication of a Textbook titled "Textbook for Sustainable Urban Development Program**

Volume 1". Yokohama City University Global Cooperation Institute for Sustainable Cities (GCI) Grant of RM21,840.00.

(63) Narimah Samat (PI), Morshidi Sirat, Chan Ngai Weng, Ruslan Rainis, Wan Ruslan ismail, Abdul Fatah Che Hamat, Anisah Lee Abdullah, Norizan Md Nor, Suriati Ghazali, Aishah Knight Abdul Sattar, Asyirah Abdul rahim, Azlinda Azman, Jabil Mapjabil, Khoo Suet Leng, Nooriah Yusof, Saidatulakmal Mohd, Sharifah Rohaya Sheikh Dawood, Wan Mohd Muhyihuddin Wan Ibrahim, Zakaria Bahari, Zikri Mohamad, Zulyadini A Rahaman, Aziz Abdul Majid. **Spatial Inequalities: Framing Phenomena, Formulating Policies. Research University Team Grant.** Duration from 15 July 2013 to 14 July 2017. Grant amount is RM500,000.00.

(64) Tan Mou Leong (PI) and Chan Ngai Weng. **Engaging and educating USM Students and Cleaning Staff in Restu-Saujana-Tekun Hostels in Universiti Sains Malaysia on the importance of water conservation towards water sustainability in USM.** University-Industry-Community Engagement Adhoc Grant from Division of Industry & Community Network USM. Duration is from 1 September 2017 to 31 Disember 2017. Grant Amount is RM1,500.00.

(65) Chan Ngai Weng (PI), Khairul Rahman Ayub dan Asyirah Abdul Rahim. **Engaging and Educating Nibong Tebal Communities in the Importance of Bio-Ecological Drainage Systems of the USM Engineering Campus in the Control of Water Quality, Floods and Recreation.** University-Industry-Community Engagement Adhoc Grant from Division of Industry & Community Network USM. Duration is from 1 September 2017 to 31 Disember 2017. Grant Amount is RM3,000.00.

Ongoing Projects:

(66) Chan N W (PI) **"Universiti Sains Malaysia Water Savings Project 2012-2017"**. Universiti Sains Malaysia Special Project Approved By Vice-Chancellor" (Duration is 7 years from August 2010 to July 2017. Approved Funding came in July 2012 based on PBA Tariff Reduction of Monthly Water Bill of Account Number 570505035917 (Asrama USM Lot 229, 230, 235, 238 and 8944). Account No. 311/PHUMANITI/4117420. Year 1 Budget awarded is RM115,000.00.

(67) Chan Ngai Weng (PI) **"Research on Public Perception, Practices and Commitment Towards Domestic Water Saving in Penang State"**, 1 August 2017 to 31 July 2018, totaling RM10,000 (Ten Thousand Ringgit). Grant Account Number 304/PHUMANITI/650906/W109.

(68) Tan Mou Leong (PI), Chan Ngai Weng, Fredolin Tangang@Tajudin Mahmu, Liew Ju Neng, Wan Ruslan Bin Ismail, Zulkifli Yusop, **Framework for assessing Southeast Asia Hydro-Climatic Drought (SEA-HCD)**, FRGS, RM76,200.00, Account Number 304/PHUMANITI/6711695; .01/01/2019-31/12/2021.

(69) Chan Ngai Weng (PI), Narimah Samat, Aminuddin Ab Ghani and Nik Norma Nik Hasan. **Modelling the Fundamental Aspects of Community Flood Vulnerability Adaptation and Resilience Towards Climate Change in Kelantan, Malaysia.** FRGS, RM 74,6000.00, Account Number 203.PHUMANITI.6711693, 1 Jan 2019-31 Dec 2020.

(70) Chan Ngai Weng (PI), Narimah Samat, Azizan Sabjan, Tan Mou Leong, Yen Siew Hwa, See Kok Fong and Seow Ta Wee. **"Study of social, cultural and economic aspects of sustainable aquaculture focusing on resource reclamation and reuse of aquaculture effluent"** Under the LRGS Research Program titled **"Resource Reclamation and Reuse from the Aquaculture Effluent"**, RM817,000.00, Account No. 203/ PHUMANITI/ 67215003; 1 Jan 2019 to 30 June 2023.

(71) Tan Mou Leong (PI), Chan Ngai Weng, Ruslan Rainis, Wan Ruslan Ismail, Narimah Samat, James Haywood, Matthew Hawcroft and Kevin Ivan Hodges. **IMpacts of PRecipitation from Extreme StormS - Malaysia (IMPRESS - Malaysia).** Newton-NERC Grant, 203.PHUMANITI.6780001, 1 Jan 2019 to 31 Dec 2021.

6 PUBLICATIONS

(A) BOOKS:

- 1 Chan, N.W. (1979) *Geografi Untuk SRP*. Kuala Lumpur: Fargoes Sdn Bhd. (Translation: Geography For SRP)
- 2 Chan, N.W. (1987) *Geografi Fizikal*. Petaling Jaya: Pustaka DELTA Pelajaran Sdn Bhd. (Translation: Physical Geography)
- 3 Dewan Bahasa dan Pustaka (1993) *Istilah Geografi*. Kuala Lumpur: Dewan Bahasa dan Pustaka. (I was in the committee that produced the book. Translation: Geographical Terminologies)
- 4 Chan, N.W., Wan Ruslan Ismail, Aziz Abdul Majid and Abibullah Samsuddin (1994) *Pengantar Geografi*. Kuala Lumpur: Dewan Bahasa dan Pustaka. (Translation: Introduction to Geography)
- 5 Chan, N.W. (1995) *Asas Kaji Iklim*. Kuala Lumpur: Dewan Bahasa dan Pustaka. (Translation: Basic Climatology)
- 6 Chan, N.W. (Editor) (1997) *Proceedings of the international conference Meeting Water Challenges in the 21st Century*. Paris: Water Mobilising Programme of the Alliance for a Responsible and United World.
- 7 Chan, N.W. (1998) *Biogeografi: Nota-Nota Kuliah*. Pulau Pinang: NP Sdn Bhd. Limited Edition. (Translation: Biogeography: Lecture Notes)
- 8 Chan, N.W. (1998) *Cuaca Dan Iklim: Satu Koleksi Nota-Nota Kuliah*. Pulau Pinang: NP Sdn Bhd. Limited Edition. (Translation: Weather and Climate: A Collection of Lecture Notes)
- 9 Mashhor Mansor, Lim, P.E., Seng, C.E., Chan, N.W., Salmah Md Rawi, Ruslan Rainis, Omar Hj Kadir and Tan, E. (1999) *Classification of Malaysian Rivers – Volume 4 Kedah River*. Kuala Lumpur: Unit Perundingan Universiti Malaya.
- 10 Mashhor Mansor, Lim, P.E., Seng, C.E., Chan, N.W., Salmah Md Rawi, Ruslan Rainis, Omar Hj Kadir and Tan, E. (1999) *Classification of Malaysian Rivers – Volume 9 Penang River*. Kuala Lumpur: Unit Perundingan Universiti Malaya,.
- 11 Chan, N.W. (Editor) (2002) *Rivers: Towards Sustainable Development*. Penang: Penerbit Universiti Sains Malaysia.
- 12 Chan, N.W. (2002) *Pembangunan, Pemandaran dan Peningkatan Bahaya dan Bencana Air di Malaysia: Isu, Pengurusan dan Cabaran*. Penang: Penerbit Universiti Sains Malaysia. (Translation: Development, Urbanisation and Increasing Water Hazards and Disasters in Malaysia: Issues, Management and Challenges)
- 13 Chan, N.W., Hajar Abdul Rahim, Khor, H.T. and Baharulnizam Baharum (Editors) (2003) *Learning About Water – Training Manual*. Penang: Water Watch Penang.
- 14 Chan, L.K., Baharuddin Sulaiman, Chan, N.W., Che Salmah Md Rawi, Darah Ibrahim, Kanda Kumar, Shaida Fariza Sulaiman and Siti Azizah Mohd Noor (Editors) (2003) *Pantai Acheh Forest Reserve: The Case for a State Park*. Pulau Pinang: Penerbit Universiti Sains Malaysia.
- 15 Chan, N.W. (2004) *Managing Water Resources in the 21st Century: Involving All Stakeholders Towards Sustainable Water Resources Management in Malaysia*. Bangi: Environmental Management Programme, Centre for Graduate Studies, Universiti Kebangsaan Malaysia.
- 16 Chan, N.W. (Editor) (2004) *Ecotourism: Issues & Challenges*. Penang: School of Humanities, Universiti Sains Malaysia.
- 17 Chan, N.W. (Editor) (2006) *Cameron Highlands: Issues & Challenges in Sustainable Development*. Penang: School of Humanities, Universiti Sains Malaysia.
- 18 Chan, N.W. (2006) *Water For Life – A Water Conservation VCD For Schools*. Penang: Water Watch Penang.
- 19 Chan, N.W. (2006) *USM-CETDEM Climate Change Survey. Healthy Campus Series 12*. Penang: Penerbit Universiti Sains Malaysia.

- 20 Chan, N.W. and Bouguerra, L. (Editors) (2007) *World Citizens' Assembly on Water: Towards Global Water Sustainability*. Penang: Water Watch Penang and Alliance for a Responsible, Plural and United World.
- 21 Ab. Latif Ibrahim, Mazlan Hashim, Muhammad Zulkarnain Abdul Rahman and Chan, N.W. (2008) *Atmosfera*. Skudai: Penerbit Universiti Teknologi Malaysia.
- 22 Chan, N.W. (2008) *Iklim dan Cuaca*. School of Humanities, Universiti Sains Malaysia.
- 23 Chan, N.W., Narimah Samat and Jabil Mapjabil (2008) *Teknik-Teknik Dalam Geografi*. School of Humanities, Universiti Sains Malaysia.
- 24 Chan, N.W. and Anisah Lee Abdullah (2008) *Geografi Fizikal*. Penang: School of Humanities, Universiti Sains Malaysia.
- 25 Anisah Lee Abdullah, Wan Ruslan Ismail, Chan, N.W. and Tarmiji Masron (2009) (Editors) *Proceedings of 2nd National Conference on Society, Space & Environment 2009: Towards Sustainable Heritage and Future*. Penang: School of Humanities, Universiti Sains Malaysia. In CD Rom.
- 26 Anisah Lee Abdullah, Wan Ruslan Ismail, Chan, N.W. and Tarmiji Masron (2009) (Editors) *Book of Abstracts of 2nd National Conference on Society, Space & Environment 2009: Towards Sustainable Heritage and Future*. Penang: School of Humanities, Universiti Sains Malaysia, ISBN 978-983-42017-7-7.
- 27 Jabil Mapjabil, Tuan Pah Rokiah Syed Hussain and Chan, N.W. (Editor) (2015) *Ekosistem Lembangan Saliran Di Malaysia*. Sintok: Universiti Utara Press.
- 28 Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) (2015) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities.
- 29 Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) (2016) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, Yokohama City University.

(B) CHAPTERS IN BOOKS:

- 1 Chan, N.W. (1993) Chapter 16: Flood Hazard Mitigation in Peninsular Malaysia. In P.A. Merriman and C.W.A. Browitt (eds) *Natural Disasters: Protecting Vulnerable Communities*. London: Thomas Telford, 194-209.
- 2 Parker, D.J., Nabiul Islam and Chan, N.W. (1997) Chapter 3: Reducing vulnerability following flood disaster: Issues and practices. In A. Awotona (ed) *Reconstruction After Disaster*. London: Avebury, 23-44.
- 3 Chan, N.W. (1997) Chapter 11: Warnings in the context of flood hazard management in Malaysia. In J W Handmer (ed) *Flood Warning: Issues and Practice in Total System Design*. London: Flood Hazard Research Centre, 115-132.
- 4 Chan, N.W. (1997) Chapter 6: Managing Water Hazards in Malaysia. In N W Chan (ed) *Proceedings of the international conference "Meeting Water Challenges in the 21st Century"*. Paris: Water Mobilising Programme of the Alliance for a Responsible and United World, 55-67.
- 5 Chan, N.W. (1998) Chapter 54 - Flash and monsoon flooding. In Sham Sani (ed) *The Encyclopedia of Malaysia - Volume I Environment*. Singapore: Editions Didier Millet, 112-113.
- 6 Chan, N.W. (1998) Chapter 6 - The physical geography and flooding of Peninsular Malaysia. In A.I. Johnson and C.A. Fernandez-Jauregui (eds) *Hydrology in the Humid Tropic Environment*. Wallingford, IAHS Publ. No. 253, IAHS Press, 303-311.
- 7 Chan, N.W. (1999) Warning and Evacuation Effectiveness in Malaysia. In J. Ingleton (ed) *Natural Disaster Management - IDNDR Commemorative Edition*. Leicester: Tudore Rose, 171-173.
- 8 Chan, N.W. and Parker, D.J. (1999) Aspek Sosio-Ekonomi Bencana Banjir Di Semenanjung Malaysia. In Mohd. Razali Agus and Fashir Noor Sidin (Eds) *Perbandaran*

- dan Perancangan Persekitaran*, Kuala Lumpur: Utusan Publications & Distributors Sdn Bhd, 140-159. (Translation: Socio-economic Aspects of Flooding in Peninsular Malaysia).
- 9 Chan, N.W. (1999) Faktor Paling Signifikan Terhadap Keterukan Subjektif Impak Banjir. In Mohd. Razali Agus and Fashir Noor Sidin (Eds) *Perbandaran dan Perancangan Persekitaran*, Kuala Lumpur: Utusan Publications & Distributors Sdn Bhd, 249-261. (Translation: The Most Significant Factors Affecting the Subjective Severity of Flooding).
- 10 Socio-Economic and Environmental Research Institute (SERI) (1999) *People's Report on Sustainable Indicators for Development in Penang*. Pulau Pinang: Socio-Economic and Environmental Institute of Penang (I wrote the Chapters on Acid Rain (p 19), River Water Quality (pp 34-35) and Water Consumption and Supply (pp 42-43).
- 11 Chan, N.W., Morshidi Sirat, Ruslan Rainis, Wan Ruslan Ismail and Ab Latif Ibrahim (1999) Urban Sustainability and the Effects of Rapid Socio-Economic, Industrial and Infrastructure Development in Penang Island. In ISIS Malaysia *Monograph Series on Environment and Development*. Kuala Lumpur: Institute of Strategic and International Studies (ISIS) Malaysia, Chapter 6, 415-527.
- 12 Chan, N.W. (1999) Chapter 3: Hydrological Features, Land Uses and Socio-Economics. In Mashhor Mansor, Lim, P.E., Seng, C.E., Chan, N.W., Salmah Md Rawi, Ruslan Rainis, Omar Hj Kadir and Tan, E. (Eds) *Classification of Malaysian Rivers – Volume 4 Kedah River*. Kuala Lumpur: Unit Perundingan Universiti Malaya, 8 - 59.
- 13 Chan, N.W. (1999) Chapter 3: Hydrological Features, Land Uses and Socio-Economics. In Mashhor Mansor, Lim, P.E., Seng, C.E., Chan, N.W., Salmah Md Rawi, Ruslan Rainis, Omar Hj Kadir and Tan, E. (Eds) *Classification of Malaysian Rivers – Volume 9 Penang River*. Kuala Lumpur: Unit Perundingan Universiti Malaya, 8 - 51.
- 14 Chan, N.W. (2000) Chapter 29 – Reducing Flood Hazard Exposure and Vulnerability in Peninsular Malaysia. In D J Parker (ed) *Floods Volume II*. London: Routledge, 19 - 30.
- 15 Chan, N.W. (2000) Chapter 10: Penang Island: Hill Development and Impacts on the Environment. In T.S. Teh (ed) *Islands in Malaysia: Issues and Challenges*. Kuala Lumpur: University of Malaya, 139-150.
- 16 Chan, N.W. (2000) L'environnement en Malaisie. In E. Sizoo (Ed) *Ce Que Les Mots Ne Disent Pas*. Paris: Editions –Diffusion Charles Leopold Mayer, 20–21, 32-33, 35-36, 44, 50-51, 58.
- 17 Chan, N.W. (2000) Patrimoine, environnement et developpement durable en Malaisie. In B. Boom (Ed) *Les valeurs du Monde*. Versailles: Rencontres de Versailles, 20-23.
- 18 Chan, N.W. (2000) Chapter 6 - Degradation of High Land Areas in Malaysia: Effects on Water Resources. In *Tanah Air Ku: Land Issues in Malaysia*. Penang: Consumers' Association of Penang, 66 - 86.
- 19 Chan, N.W. (2001) Water Conservation and Reuse and Reduction of Water Use. In *Sustainable Management of Water Resources in Malaysia*. Petaling Jaya: Global Environment Centre, 78-92.
- 20 Chan, N.W. (2002) "Rainfall Harvesting: Only One of Many Water Conservation Practices Towards the Evolution of a Water Saving Society". In Elias Ismail and S. Sundaraj (Editors) *Proceedings of the Workshop on Rainfall Harvesting As A Tool for Sustainable Water Supply & Storm-water Management*. Kuala Lumpur: Construction Industry Development Board Malaysia, 11-26.
- 21 Chan, N.W., Wan Ruslan Ismail and Abdul Latif Ibrahim (2003) *The Geography, Climate and Hydrology of Pantai Acheh Forest Reserve*. In L.K. Chan (Ed) *Pantai Acheh Forest Reserve: The Case for a State Park*. Penang: Penerbit Universiti Sains Malaysia, 38-54.
- 22 Chan, N.W. (2003) Striking A Balance Between Ecotourism and Environmental Protection. In N W Chan (Editor) *Introductory Course on Ecotourism*. Penang: British

- Council DFID Higher Education Links and School of Humanities, Universiti Sains Malaysia, 21-33.
- 23 Chan, N.W. (2003) Protecting Freshwater Resources. In Malaysian NGO Forum for Rio+10 *NGO Perspectives for Advancing Sustainable Development in Malaysia*. Petaling Jaya: Malaysian NGO Forum for Rio+10, 33.
- 24 Chan, N.W. (2003) Chapter 18 Protection of the Quality and Supply of Freshwater Resources: Application of Integrated Approaches to the Development, Management and Use of Water Resources. In CD Rom by Malaysian NGO Forum for Rio+10 Agenda 21 Review Papers. Petaling Jaya: Malaysian NGO Forum for Rio+10.
- 25 Chan, N.W. (2004) *Chapter 3: Sustainable Water Resources Management*. In K.J. Ratnam, Ahmad Farhan Mohd Sadullah and T.W. Sam (Editors) *Research at Universiti Sains Malaysia Vol. 3: Environmental Management and Engineering*. Penang: Penerbit Universiti Sains Malaysia, 16-29.
- 26 Chan, N.W. (2004) Chapter 3: Striking A balance Between Ecotourism and Environmental Protection. In Chan N W (Editor) *Ecotourism: Issues and Challenges*. Penang: School of Humanities, Universiti Sains Malaysia, 21-33.
- 27 Chan, N.W. (2004) Non-Governmental Organisations and Community Participation in Water Resources Management in Malaysia. In Mazlin B Mokhtar, Salmah Zakaria, Low Kwai Sim, Fauzi A Samad and Zalilah Selamat (Editors) *National Dialogue on Effective Water Governance in Malaysia*. Kuala Lumpur: Malaysian Water Partnership, 33-48.
- 28 Chan, N.W. (2004) Water Watch Penang Activities. In Anton A. (Chief Editor) *Integrated Water Resources Management in Malaysia: Experiences and Practices*. Kuala Lumpur: Department of Irrigation and Drainage (DID) and Malaysian Water Partnership (MyWP), 126-132.
- 29 Chan, N.W., Chan, L.K. and Kanda Kumar (2004) Chapter 7: Ecotourism in the Penang National Park: Issues & Challenges. In N.W. Chan (Editor) *Ecotourism: Issues and Challenges*. Penang: School of Humanities, Universiti Sains Malaysia, 58-75.
- 30 Leong, J., Ang, F. and Chan, N.W. (2004) Chapter 13: The Dos and Don'ts for the Ecotourist. In N.W. Chan (Editor) *Ecotourism: Issues and Challenges*. Penang: School of Humanities, Universiti Sains Malaysia, 113-118.
- 31 Nor Azazi Zakaria, Aminuddin Abd Ghani, Kung, H.T. and Chan, N.W. (2004) Chapter 14: Using Rivers for Ecotourism. In N.W. Chan (Editor) *Ecotourism: Issues and Challenges*. Penang: School of Humanities, Universiti Sains Malaysia, 119-128.
- 32 Chan, N.W. (2004) The Action for Better Cities Information Series: Water. In S. Thanenthiran (Ed) *Agenda For Action – Action for Better Cities Information Series*. Kuala Lumpur: The Urban Governance Initiative (TUGI), 29-36.
- 33 Chan, N.W. (2006) Striking a Balance between Development and Environment in Cameron Highlands. In Chan N W (Editor) *Cameron Highlands: Issues & Challenges in Sustainable Development*: Penang: School of Humanities, Universiti Sains Malaysia, 12-25.
- 34 Chan, N.W., Suriati Ghazali and Norizan Md Nor (2006) Change and Heat Island Effects in Cameron Highlands. In N.W. Chan (Editor) *Cameron Highlands: Issues & Challenges in Sustainable Development*: Penang: School of Humanities, Universiti Sains Malaysia, 35-55.
- 35 Suriati Ghazali, Chan, N.W. and Norizan Md Nor (2006) The Economic and Socio-Cultural Impacts of Ecotourism on the Orang Asli in Cameron Highlands, Pahang, Malaysia. In N.W. Chan (Editor) *Cameron Highlands: Issues & Challenges in Sustainable Development*: Penang: School of Humanities, Universiti Sains Malaysia, 94-106.
- 36 Yee, S. K. and Chan, N.W. (2006) Tourism in the Cameron Highlands: Issues, Prospects and Challenges. In N.W. Chan (Editor) *Cameron Highlands: Issues & Challenges in*

- Sustainable Development*: Penang: School of Humanities, Universiti Sains Malaysia, 107-113.
- 37 Leong, K.W. and Chan, N.W. (2006) Bioengineering, Erosion Control Techniques for Sustainable Construction in Cameron Highlands. In N.W. Chan (Editor) *Cameron Highlands: Issues & Challenges in Sustainable Development*: Penang: School of Humanities, Universiti Sains Malaysia, 121-132.
- 38 Chan, N.W. (2006) Conclusions and Recommendations of the Seminar on Sustainable Development in Cameron Highlands, Pahang, Malaysia. In N.W. Chan (Editor) *Cameron Highlands: Issues & Challenges in Sustainable Development*: Penang: School of Humanities, Universiti Sains Malaysia, 154-157.
- 39 Chan, N.W. (2006) Kertas Kerja 4 – Sistem Hidrologi. In Book of Proceedings by Majlis Peperiksaan Malaysia “*Kertas Kerja Taklimat Sukatan Pelajaran Geografi (942) STPM*”, 7 – 10 April 2006. Kuala Lumpur: Majlis Peperiksaan Malaysia, 18-29.
- 40 Teh, S.Y., Koh, H.L., Chan, N.W. and Ahmad Izani Md. Ismail (2006) Modelling Tasik Harapan as a Flood Retention Pond. *Healthy Campus Series (No. 13) Monitoring and Modelling of a University in a Garden*. Penerbit Universiti Sains Malaysia, Pulau Pinang, Malaysia, 84 – 101.
- 41 Chan, N.W., Koh, H.L. and Aminuddin, A.G. (2006) Developing a Model of Flood Hazards on Urban Floodplains in Malaysia. In Abd. Aziz Tajuddin and K.O. Lim (Editors) *Fundamental Research at USM 2002 – 2005 Vol. 3 (Arts)*. Penang: Penerbit Universiti Sains Malaysia, 32-54.
- 42 Chan, N.W. and Bouguerra, L. (2007) Introduction to Water Issues on a Global Perspective. In N.W. Chan and L. Bouguerra (Editors) (2007) *World Citizens’ Assembly on Water: Towards Global Water Sustainability*. Penang: Water Watch Penang and Alliance for a Responsible, Plural and United World, 19-42.
- 43 Chan, N.W. (2007) Partnerships in Integrated Water Resources Management (IWRM): A Case Study of Water Watch Penang. In N.W. Chan and L. Bouguerra (Editors) (2007) *World Citizens’ Assembly on Water: Towards Global Water Sustainability*. Penang: Water Watch Penang and Alliance for a Responsible, Plural and United World, 47-56.
- 44 Chan, N.W. (2007) Non-Governmental Organizations and Community Participation in Water Resources Management in Malaysia. In N.W. Chan and L. Bouguerra (Editors) (2007) *World Citizens’ Assembly on Water: Towards Global Water Sustainability*. Penang: Water Watch Penang and Alliance for a Responsible, Plural and United World, 57-71.
- 45 Chan, N.W. and Bouguerra, L. (2007) Conclusions and Recommendations of the World Citizens’ Assembly on water (WCAW) Meeting in Kuala Lumpur, October 2005. In N.W. Chan and L. Bouguerra (Editors) (2007) *World Citizens’ Assembly on Water: Towards Global Water Sustainability*. Penang: Water Watch Penang and Alliance for a Responsible, Plural and United World, 144-158.
- 46 Chan, N.W. (2007) Application of Domestic Water Audit and Other Water Demand Management (WDM) Strategies. In *Malaysian Environmental NGOs’ Integrated Water Resource Management (IWRM) Training Module*. Petaling Jaya: Malaysian Environmental NGOs, Global Water Partnership and Malaysian Water Partnership, 25-44.
- 47 Chan, N.W. (2007) Application of Domestic Water Audit and Other Water Demand Management (WDM) Strategies. In *Malaysian Environmental NGOs’ Integrated Water Resource Management (IWRM) Training Module – CD Version*. Petaling Jaya: Malaysian Environmental NGOs, Global Water Partnership and Malaysian Water Partnership.
- 48 Chan, N.W. (2008) Chapter 8: Penawaran dan Permintaan Air Di Bandar – Isu-Isu Pengurusan Air Dan Cabaran Dalam Kelestarian Air. In Jamaluddin Md. Jahi, Kadaruddin Aiyub, Kadir Ariffin, Muhammad Rizal Razman, Azahan Awang, Abdul

- Samad Hadi, Abdul Hadi Harman Shah and Laily Bin Din (Editors) *Ekosistem Bandar Perindustrian*. Bangi: Pusat Pengajian Siswazah, Universiti Kebangsaan Malaysia, 93-111.
- 49 Chan, N.W. (2010) Chapter 2: Managing Limited Water Resources – Smart Partnership at Work. In Malaysian Environmental Non-Governmental Organisations (MENGO) *Taking the Green Path – MENGOs' Initiative Towards Sustainable Development*. Petaling Jaya: Malaysian Environmental Non-Governmental Organisations (MENGO), 15-20.
- 50 Chan, N.W. and Barrow, C.J. (2010) Chapter 6: The Potential for Tourism to Support Sustainable Development in Cameron Highlands. In Kadir Din and Jabil Mapjabil (Editors) *Tourism Research in Malaysia: What, Which Way and So What?* Sintok: Universiti Utara Malaysia Press, 107-130.
- 51 Jabil Mapjabil and Chan, N.W. (2010) Chapter 8: Ecotourism in Highland Areas in Malaysia: A Study on Perception of Hoteliers. In Kadir Din and Jabil Mapjabil (Editors) *Tourism Research in Malaysia: What, Which Way and So What?* Sintok: Universiti Utara Malaysia Press, 147-158.
- 52 Tarmiji Masron, Chan Ngai Weng, Mohammad Luthfi Abdul Rahman, Azmi Arifin (2012) “Peta budaya Sebagai Pendekatan Pemuliharaan Warisan Alam dan Budaya.” In Abu Talib Ahmad (Editor) *Utara Semenanjung Malaysia: Esei-Esei Warisan*. Penang: Penerbit USM, 225-236.
- 53 Chan, N.W. (2012) Chapter 6 The N-Park Negalitres Project: A Pilot Water-Saving Initiative Using Green Technology and Changing Water Use Behaviour. In Ardakanian, R. and Dirk, J. (Editors) “Water and the Green Economy: Capacity Development Aspects”. Bonn, UN-Water Decade Programme on Capacity Development (UNW-DPC): 75-90.
- 54 Jabil Mapjabil, Chan, N.W. and Ahmad Tharmizzie Mat Jusoh (2012) Chapter 5: Pengetahuan, Sikap dan Amalan dalam Ekopelancongan Tanah Tinggi di Malaysia. In Jabil Mapjabil and Kadir Din (Editors) *Pelancongan di Malaysia: isu-Isu Penyelidikan Terkini*. Sintok: Universiti Utara Malaysia Press, 63-81.
- 55 Chan, N.W., Narimah Samat and Suriati Ghazali (2013) Some Examples of Water Management in Malaysia. In Nurul Farhana Abdullah and Mohamad Rashidi Pakri (Editors) *Retracing Tradition for a Sustainable Future: The Malaysian Experience*. Penang: Penerbit Universiti Sains Malaysia, 1-15 (ISBN: 978-983-861-581-5).
- 56 Chan, N.W. (2013) Chapter 11 Tasik Harapan: Multi-Purpose Use as Retention Pond for Flood Control, Recreation, Research and Community Participation. In Mohamad Suhaily Yusri Che Ngah, Mohmadisa Hashim and Nasir Nayan (Editors) *Hidrologi & Pengurusan Sumber Air di Malaysia*. Tanjong Malim: Penerbit Jabatan Geografi dan Alam Sekitar, Fakulti Sains Kemanusiaan, Universiti Pendidikan Sultan Idris, 161-172 (ISBN: 978-983-2063-63-6).
- 57 Chan, N.W. (2013) Masalah Sumber dan bekalan Air serta Pengurusannya di Malaysia. In Jamaluddin Md. Jahi, Muhammad Rizal Razman, Rusli Zainal, Abdullah Sulaiman and Emrizal (Editors) *Pengurusan Alam Sekitar di Malaysia dan Indonesia*. Bangi: Institute Alam dan Tamadun Melayu, 118-150.
- 58 Chan, N.W., Ku Ruhana Ku-Mahamud and Mohd Zaini Abd. Karim (2013) Local wisdom in adapting to and coping with flood disasters in ASEAN countries. In Norizan, E. (Editor) *Reengineering Local Knowledge - Life, Science and Technology*. Penang: Penerbit Universiti Sains Malaysia, 59-72.
- 59 Chan, N.W. (2014) Chapter 11 - The Role of Non-Governmental Organizations in Promoting Education and Environmental Awareness in Malaysia. In Li, J. (Editor) *Environment and Sustainable Development in Asia*. Singapore: World Scientific Publishing Co. Pte. Ltd., 215-243.

- 60 Chan, N.W. (2014) Metodologi Kajian Sungai: Satu Kaedah Kerja Lapangan dalam geografi Fizikal. In Wan Ruslan Ismail, Narimah Samat and Nooriah Yusof (Penyunting) *Kerja Lapangan: Teknik, Prosedur dan Aplikasi dalam Geografi*. Pulau Pinang: Penerbit Universiti Sains Malaysia, 65-81.
- 61 Chan, N.W. (2014) Ancaman dan Cabaran dalam Pembangunan Ekopelancongan Geopark di Pulau Langkawi. In Jabil Mapjabil (Editor) *Pelancongan di Pulau Langkawi: Pembangunan dan Implikasi*. Batu Pahat: Penerbit Universiti Tun Hussein Onn, 63-80. ISBN 978-983-0468-90-7.
- 62 Chan, N.W. (2015) Chapter 12 Impacts of Disasters and Disaster Risk Management in Malaysia: The Case of Floods. In Aldrich, D.P., Oum, S. and Sawada, Y. (Editor) *Resilience and Recovery in Asian Disasters, Risks, Governance and Society*. Springer (e-Book), 239-265. ISBN 978-4-431-55022-8. DOI 10.1007/978-4-431-55022-8.
- 63 Sharifah Meryam Shareh Musa, Chan Ngai Weng and Haryati Shafi (2015) Pengurusan Banjir di Malaysia Melalui Kaedah Struktur, Bukan Struktur dan Bersepadu. In Jabil Mapjabil, Tuan Pah Rokian Syed Hussein and Chan Ngai Weng (Editors) *Ekosistem Lembangan Saliran Malaysia: Bencana dan Pengurusannya*. Sintok: Universiti Utara Malaysia Press, 50-69.
- 64 Chan Ngai Weng (2015) The N-Park Condominium Water Saving Project: Stakeholder Engagement for Better Urban Water Management. In United Nations Economic and Social Commission for Asia and the Pacific and K-water “*Water and Green Growth: Case Studies from the Asia and the Pacific*”, Bangkok: United Nations Economic and Social Commission for Asia and the Pacific and K-water, 20-22.
- 65 Chan Ngai Weng, Nor Azazi Zakaria, Aminuddin Ab Ghani and Lee Lai Kuan (2015) Hydrological Cycle Chapter 14. In Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 81-89.
- 66 Chan Ngai Weng (2015) Global Warming Chapter 10. In Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 58-61.
- 67 Chan Ngai Weng and Seow Ta Wee (2015) Resiliency Chapter 8. In Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 51-53.
- 68 Chan Ngai Weng and Badaruddin Mohamed (2015) Ecological Footprint Chapter 6. In Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 35-44.
- 69 Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (2015) What Are Sustainable Cities? Chapter 1. In Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 7-12.
- 70 Chan Ngai Weng (2015) Resource Basis of Our Life, Chapter 3. In Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 20-24.
- 71 Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (2015) Introduction Chapter. In Chan Ngai Weng, Masazumi Ao and Hidefumi Imura (Editors) *Manual on Sustainable Urban Development and Management*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 1-6.
- 72 Chan Ngai Weng (2015) Chapter II: 20 Urbanization and the Generation of Urban Heat islands in Selected Cities in Malaysia. In *Urban Sustainable Development Opportunities*

- *Challenges*. Ho Chi Minh City: University of Social Sciences & Humanities, Vietnam National University, 218-232 (ISBN 978-604-73-3272-4).
- 73 Lai Chee Hui, Chan Ngai Weng, Phang Wai Leng and Ranjan Roy (2015) Chapter II: 17 Evaluation Non-Revenue Water (NRW) Reduction Strategies in Malaysia: A Preliminary Study of Selected Water Authorities. In *Urban Sustainable Development Opportunities – Challenges*. Ho Chi Minh City: University of Social Sciences & Humanities, Vietnam National University, 181-190 (ISBN 978-604-73-3272-4).
- 74 Chan Ngai Weng (2015) Chapter 6: Human Aspect of Water Security Focussing on Governance, Water Demand Management and Non-Revenue Water in Urban Areas in Malaysia. In *Urban Water Cycle Processes, Management & Societal Interactions: Crossing from Crisis to Sustainability*. Penang: River Engineering and Urban Drainage Research Centre Publication, 225-266.
- 75 Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (2016) Chapter 1: Introduction. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 1-13.
- 76 Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (2016) Chapter 2: What are sustainable cities?. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 14-20.
- 77 Chan, N.W. (2016) Chapter 4: Resource basis of our life. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 27-31.
- 78 Chan, N.W., Badaruddin Mohamed and Jabil Mapjabil (2016) Chapter 7: Ecological footprint and cities. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 42-51.
- 79 Chan, N.W., Ta Wee Seow and Chun Kiat Chang (2016) Chapter 9: Resiliency. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 58-62.
- 80 Chan, N.W., Ta Wee Seow, David Martin, Kai Chen Goh and Hui Hwang Goh (2016) Chapter 11: Global Warming. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 67-73.
- 81 Chan, N.W., Ku Ruhana Ku Mahamud, Mohamad Zaini Karim, Lai Kuan Lee and Charles Hin Joo Bong (2016) Chapter 15: Hydrological Cycle and Cities. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 95-104.
- 82 Chan, N.W., Main Rindam, Radiah Yusof, Masazumi Ao and Keng Yuen Foo (2016) Chapter 17: Water Management in Cities. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 112-117.
- 83 Chan, N.W., Narimah Samat, Suriati Ghazali, Radiah Yusof and Wai Leng Phang (2016) Chapter 18: Water Budget of a Household. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 118-125.

- 84 Chan, N.W., Wan Ruslan Ismail, Abu Talib Ahmad, Chern Wern Hong and Olivier Gervais (2016) Chapter 19: Rain Harvesting. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 126-136.
- 85 Chan, N.W., Nor Azazi Zakaria, Aminuddin Ab Ghani, Suhaimi Abdul-Talib and Lariyah Mohd-Sidek (2016) Chapter 20: Drinking Water Supply. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 137-146.
- 86 Chan, N.W., Akihiro Nakamura and Hidefumi Imura (2016) Chapter 27: Transit-Oriented Development (TOD). In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 177-183.
- 87 Chan, N.W., Narimah Samat and Nguyen Minh Hoa (2016) Chapter 31: Decision Support System for Urban Planning. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 199-203.
- 88 Chan, N.W., Ta Wee Seow and Jabil Mapjabil (2016) Chapter 32: Infectious Diseases and Pandemics. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 204-210.
- 89 Chan, N.W. (2016) Chapter 34: Climate Change and Public Health. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 220-225
- 90 Chan, N.W., Sulzakimin Hj Mohamed and Mou Leong Tan (2016) Chapter 35: Air Pollution. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 226-234.
- 91 Chan, N.W., Masazumi Ao, Nor Azazi Zakaria and Aminuddin Ab Ghani and Zullyadini A Rahaman (2016) Chapter 38: Rivers and Cities. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 248-258.
- 92 Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (2016) Chapter 43: Conclusion: Towards Sustainable Cities. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 296-300.
- 93 Hong, C.W., Ngai Weng Chan and Ta Wee Seow (2016) Chapter 22: Municipal Solid Waste. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 154-157.
- 94 Nor Azazi Zakaria, Aminuddin Ab Ghani, Ngai Weng Chan and Chun Kiat Chang (2016) Chapter 39: Sustainable Urban Drainage and Cities. In Chan, N.W., Hidefumi Imura, Akihiro Nakamura and Masazumi Ao (Editors) *Sustainable Urban Development Textbook*. Penang: Water Watch Penang & Global Cooperation Institute for Sustainable Cities, 259-270.
- 95 Chan Ngai Weng (2016, Out in 2017) Water and Green Growth. In *Transforming the Water Sector: National Integrated Water Resources Plan, Strategies and Road Map*. Kuala Lumpur: Akademi Sains Malaysia, 221-240.

- 96 Chan, N.W. (2017) Chapter 3: Water. In *To Mother Earth: Training of Trainers Manual*. Penang: Penang Green Council, 47-73.
- 97 Chan, N.W. (2017) Bencana Banjir di Malaysia: Keperluan Perancangan Pro-Bencana dan Pengurusan Pro-Aktif. Dalam Haliza Abdul Rahman, Rapeah Suppian and Wan Nor Amilah Wan Abdul Wahab (Editors) *Banjir: Risiko Kesihatan dan Pengurusannya*. Parit Raja: Penerbit UTHM, 162-178.
- 98 Chan, N.W., Seow, T.W., Martin, D., Goh, K.C. and Goh, H.H. (2018) Chapter 2: Global Warming. In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 5-11.
- 99 Chan, N.W., Ku Ruhana Ku Mahamud, Mohamad Zaini Karim, Lee, L.K. and Bong, C.H.J. (2018) Chapter 3: Hydrological Cycle and Cities. In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 12-21.
- 100 Chan, N.W., Main Rindam, Radiah Yusof, Ao, M. and Foo, K.Y. (2018) Chapter 5: Water Management in Cities. In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 29-34.
- 101 Chan, N.W., Narimah Samat, Suriati Ghazali, Radiah Yusof and Wai Leng Phang (2018) Chapter 6: Water Budget of a Household. In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 35-42.
- 102 Chan, N.W., Wan Ruslan Ismail, Abu Talib Ahmad, Chern Wern Hong and Olivier Gervais (2018) Chapter 7: Rain Harvesting. . In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 43-53.
- 103 Chan, N.W., Nor Azazi Zakaria, Aminuddin Ab Ghani, Suhaimi Abdul-Talib and Lariyah Mohd-Sidek (2018) Chapter 8: Drinking Water Supply. In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 54-63.
- 104 Hong, C.W. and Chan, N.W. (2018) Chapter 9: Waste Water. In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 54-63.
- 105 Hong, C.W., Chan, N.W. and Seow, T.W. (2018) Chapter 10: Municipal Solid Waste. In University of Philippines *Sustainable Urban Development Textbook 2018*. Manila: University of Philippines, 71-74.
- 106 Mohd Amirul Mahamud, Imura Hidefumi, Onishi Akio, Ngai Weng Chan and Narimah Samat (2018) A strategic partnership in implementing waste-to-energy (WTE) technology in Penang, Malaysia. *Academy of Strategic Management Journal*, Volume 17, Issue 6, 2018, 1-8.

(C) REFEREED PAPERS IN JOURNALS:

- 1 Chan, N.W. (1981) The Reliability of Rainfall in Relation to Wet Rice Cultivation in Northwest Peninsular Malaysia. *Malaysian Journal of Tropical Geography* 4, December, 14-23.
- 2 Chan, N.W. (1981) Drought Perception and Adjustments in Northwest Peninsular Malaysia. *Malaysian Geographers* 3, 1-11.
- 3 Chan, N.W. (1985) Rainfall Variability in Northwest Peninsular Malaysia. *Malaysian Journal of Tropical Geography* 12, December, 9-19.
- 4 Chan, N.W. (1986) Recent Rainfall Trends in Kedah, Perlis and Pulau Pinang. *Wallaceana* June, 4-5.
- 5 Chan, N.W. (1987) Perception Studies in Geography: A Survey of Farmers' Perception of the Drought Hazard on the Kedah Plain. *Kajian Malaysia* V (1), June, 78-98.

- 6 Chan, N.W. (1988) Bencana Kemarau Di Semenanjung Malaysia: Satu Kajian Tentang Cara-Cara Penyesuaian Petani Padi Sawah. *Ilmu Alam* 17, May, 61-79. (Translation: The Drought Hazard in Peninsular Malaysia: A Survey of Padi Farmers' Ways of Adjustments)
- 7 Chan, N.W. (1990) A Comparative Study of the Mean and Median Rainfall Patterns in Kedah and Perlis. *Kajian Malaysia* VIII (1), June, 1-20.
- 8 Chan, N.W. (1990) Angin Monsun Dan Kemusiman Hujan Di Semenanjung Malaysia. *Perantara* 8 (4), August, 22-26 (Translation: Monsoon Winds and Rainfall Seasonality in Peninsular Malaysia)
- 9 Chan, N.W. (1990) Angin Monsun Dan Reliabiliti Hujan Di Pantai Timur, Semenanjung Malaysia. *Ilmu Alam* 19, 35-52. (Translation: Monsoon Winds and Rainfall Reliability in the East Coast of Peninsular Malaysia)
- 10 Chan, N.W. (1991) Iklim dan Industri Pelancongan di Pulau Pinang: Satu Tinjauan Tentang Persepsi Pelancong-Pelancong Asing Terhadap Faktor Iklim. *Ilmu Alam* 21, May, 79 - 97. (Translation: Climate and the Tourism Industry in Pulau Pinang: An Evaluation of Foreign Tourists' Perception of the Climate Factor)
- 11 Chan, N.W. (1991) The Climate of Penang Island. *Kajian Malaysia* IX(1), June, 62-86.
- 12 Chan N W 1991 Perception, Awareness and Assessment of the Living Environment in Ipoh City: A Preliminary Report. *Akademika* 39, July, 171-191.
- 13 Chan, N.W. (1993) Economic, Social and Health Aspects of Drought in Northwest Peninsular Malaysia and the Role of Public Assistance in Recovery. *The Malaysian Agricultural Journal* 55 (1), 1-24.
- 14 Chan, N.W. (1995) Flood Disaster Management in Malaysia: An Evaluation of the Effectiveness of Government Resettlement Schemes. *Disaster Prevention and Management: An International Journal* 4 (4), 22-9.
- 15 Chan, N.W. (1995) Choice and Constraints in Persistent Floodplain Occupance: The Influence of Structural Forces on Residential Location in Peninsular Malaysia. *Disasters* 19 (4), December, 287-307.
- 16 Chan, N.W. (1995) A Contextual Analysis of Flood Hazard Management in Peninsular Malaysia, *Flood Hazard Research Centre Publication* No. 267, Enfield (UK).
- 17 Chan, N.W. (1995) A Geographical Perspective of Flood Hazard Creation and Perpetuation in Peninsular Malaysia. *Kajian Malaysia*, XIII No. 2, Dec., 20-46.
- 18 Abd. Latif Ibrahim and Chan, N.W. (1995) Pola Min Hujan Tahunan, Musiman dan Bulanan di Negeri-Negeri Barat Laut Semenanjung Malaysia: Satu Analisis Statistik. *Jurnal Kemanusiaan*, 2, December, 95-116. (Translation: Annual, Seasonal and Monthly Rainfall Patterns in the Northwestern States of Peninsular Malaysia)
- 19 Chan, N.W. and Parker, D.J. (1996) Response to Dynamic Flood hazard Factors in Peninsular Malaysia, *The Geographical Journal* 162 (3), November, 313-325.
- 20 Chan, N.W. (1996) Kejadian Banjir Kilat di Kawasan Bandar-Bandar Besar di Malaysia: Sebab-Sebab Peningkatan Risiko dan Pendedahan Masyarakat Manusia kepada Bahaya Banjir, *Perantara* 14 (3), June, 8-16. (Translation: Incidence of Flash Flooding in Big Cities in Malaysia: Causes of Increasing Risk and Exposure of Human Society to Flood Hazards)
- 21 Abd. Latif Ibrahim and Chan, N.W. (1996) Water Balance Analysis in Relation to Wet Rice Cultivation in the Muda Region of Kedah and Perlis, Malaysia. *Malaysian Agricultural Journal* 55 (2), 34-57.
- 22 Chan, N.W. (1996) Risk, Exposure and Vulnerability to Flood Hazards in a Rapidly Developing Country: The Case of Peninsular Malaysia. *Akademika* Number 49, July 1996, 107-136.
- 23 Chan, N.W. (1997) Increase in Flood Risk, Exposure and Vulnerability in Penang Island: A Case of Environmental Degradation resulting from Urbanisation and Rapid Economic Development. *Malaysian Journal of Tropical Geography* 28(1), June, 9-20.
- 24 Chan, N.W. (1997) Increasing Flood Risk in Malaysia: Causes and Solutions. *Disaster Prevention and Management: An International Journal* 6 (2), 72-86.

- 25 Chan, N.W. (1997) Institutional Arrangements for Flood Hazards in Malaysia: An Evaluation Using the Criteria Approach. *Disasters* 21 (3), 206-222.
- 26 Chan, N.W. (1997) Strategi-Strategi Pengurusan Bencana Banjir di Semenanjung Malaysia: Satu Penilaian. *Jurnal Kemanusiaan* 4, October, 93-112.
- 27 Chan, N.W. and Wan Ruslan Ismail (1997) Impak Manusia Terhadap Unsur-Unsur Kitaran Hidrologi Di Malaysia. *Ilmu Alam* 23, May, 41 - 58.
- 28 Chan, N.W. (1998) The Role of Public Participation in Averting Environmental Disasters in Malaysia: Some Examples and Observations. *Pendidikan Tinggi - Higher Education* 4, 49-60.
- 29 Chan, N.W. (1998) Responding to Landslide Hazards in Rapidly Developing Malaysia: A Case of Economics Versus Environmental Protection. *Disaster Prevention and Management: An International Journal* 7 (1), 14 - 27.
- 30 Chan, N.W. (1998) The Sustainable Penang Initiative. *Butterfly Futures* 1(2), April, 4-7.
- 31 Chan, N.W. (1998) Environmental Hazards Associated With Hill Land Development in Penang Island, Malaysia: Some Recommendations on Effective Management. *Disaster Prevention and Management: An International Journal* 7 (4), 305-318.
- 32 Chan, N.W. (1998) The Current Water Crisis: What Went Wrong? *Aliran Monthly* June 1998: 18 (5), 14-18.
- 33 Chan, N.W. (2000) Pantai Aceh Forest Reserve – Penang’s First State Park? *Malaysian Naturalist* 53 (4), 32-41.
- 34 Chan, N.W. (2000) The Role of Institutions, Organisations and Individuals in Flood Awareness and Education in Malaysia. *Pendidikan Tinggi - Higher Education*, Vol. 5, 25 - 46.
- 35 Chan, N.W. (2000) The Role of Women in Water Conservation in Penang. *Suara Wanita*, Vol. 5 (1), June Issue, 10-11.
- 36 Cai, S., Chan, N.W., Kung, H.T. and Liu, P.S. (2001) Management of Flood Disasters in the Jiangnan Plain, China. *Disaster Prevention and Management: An International Journal*, Vol. 10 No. 5, 339-348.
- 37 Chan, N.W. (2002) Saving Water for the 21st Century: The Responsibility of All. *Butterfly Futures* 4(1), December 2002, 8-11.
- 38 Liu, P.S. and Chan, N.W. (2003) The Malaysian flood hazard management program. *Int. J. Emergency Management*, Vol. 1 No. 3, 2003, 205-214.
- 39 Chan, N.W. (2003) Involving All Stakeholders Towards Sustainable Management of Rivers in Malaysia. *REDAC, Bulletin River Engineering and Urban Drainage Research Centre, Universiti Sains Malaysia*, Vol. 2 No. 02, July-December 2003, 10-15.
- 40 Chan, N.W. (2003) “Menangani Isu-Isu Pengurusan Air Di Malaysia Pada Abad Ke-21 Melalui Pengamatan Dan Pemuliharaan Air”. *Kinabalu* 9, 99-118.
- 41 Chan, N.W. (2004) Peranan Wanita Dalam Pemuliharaan Air. *Wanita*, March 2004, Issue 416, 88-90. Kuala Lumpur: Utusan Karya Sdn Bhd.
- 42 Chan, N.W. (2004) A Critical Review of Malaysia’s Accomplishment on Water Resources Management Under Agenda 21. *Malaysian Journal of Environmental Management* 5 (2004): 55-78.
- 43 Chan, N.W., Wan Ruslan Ismail and Ab Latif Ibrahim (2004) Environmental Characteristics of Pantai Aceh Forest Reserve, Penang Island, Malaysia. *Journal of Bioscience*, Vol. 15 No. 1, pp101-122.
- 44 Chan, N.W. (2005) Sustainable Management of Rivers in Malaysia: Involving All Stakeholders. *Intl. J. River Basin Management* Vol 3, No 3 (2005), pp 147-162.
- 45 Barrow, C.J., Clifton, J., Chan, N.W. and Tan, Y.L. (2005) Sustainable Development in Cameron Highlands, Malaysia. *Malaysian Journal of Environmental Management* 6 (2005): 41-57.
- 46 Chan, N.W. (2006) Water Tariffs and The Poor. *Water Malaysia* Issue No. 12 (January 2006), ISSN:1675-2392, pp 22-23.

- 47 Chan, N.W. (2006) A Comparative Study of Water Resources Usage by Households in Georgetown - Malaysia and Pattaya - Thailand. *Iranian Journal of Environmental Health Science & Engineering* 2006, Vol. 3, No. 4, 223-228.
- 48 Sathiamurthy, E. and Chan, N.W. (2006) Hydrodynamic Behaviour Change at Rambai River Outlet, Juru River Basin, Penang. *Malaysian Journal of Environmental Management* 7 (2006): 59-75.
- 49 Chan, N.W. (2007) Access to Basic Needs: Water. *Consumer Digest*, Issue 1/2007, 3-12.
- 50 Chan, N.W. and Nitivattananon, V. (2007) The Role of Gender in Domestic Water Conservation in Malaysia. *Malaysian Journal of Environmental Management* 8 (2007): 109-129.
- 51 Chan, N.W. (2007) Wanita Penggerak Kempen Jimat Air di Malaysia. *Penita* No. 2 Series 3/2007, 14-17.
- 52 Sathiamurthy, E., Goh, K.C. and Chan, N.W. (2007) Loss of Storage Areas due to Future Urbanization at Upper Rambai River and its Hydrological Impact on Rambai Valley, Penang, Peninsular Malaysia. *Journal of Physical Science*, Vol. 18 (2), 59-79, 2007.
- 53 Tan, S.E., Wan Ruslan Ismail and Chan, N.W. (2007) Kesedaran Kebersihan Alam Sekitar dan Tabiat Makan di Luar Penduduk Pulau Pinang. *Jurnal Kemanusiaan* Jld. 14, October 2007, 143-166.
- 54 Tan, S.E., Wan Ruslan Ismail and Chan, N.W. (2007) Environmental Cleanliness Awareness and Eating Out Behaviour of the People of Pulau Pinang. Research Notes. *Jurnal Ilmu Kemanusiaan*, Vol. 14, October 2007, 139-160.
- 55 Barrow, C.J., Chan, N.W. and Tarmiji Masron (2008) "Evolving more sustainable sustainable agriculture in the Cameron Highlands, Malaysia" *International Journal of Agricultural Resources Governance and Ecology (IJARGE)* Volume 7, No. 6, 2008, 450-468.
- 56 Chan, N.W. (2009) Issues and Challenges in Water Governance in Malaysia. *Iranian Journal of Environmental Health Science & Engineering* 2009, Vol. 6, No. 3, 143-152.
- 57 Barrow, C.J., Chan, N.W. and Tarmiji Bin Masron (2009) Issues and challenges of sustainable agriculture in the Cameron Highlands. In *Malaysian Journal of Environmental Management* 10 (2), 89-114.
- 58 Chan, N.W. (2009) Ecotourism and Environmental Conservation in Small islands in the East Coast of Peninsular Malaysia. In *Malaysian Journal of Environmental Management* 10 (2), 53-69.
- 59 Barrow, C. J., Chan, N.W. and Masron, T. B. (2010) Farming and Other Stakeholders in a Tropical Highland: Towards Less Environmentally Damaging and More Sustainable Practices. *Journal of Sustainable Agriculture*, 1540-7578, Volume 34, Issue 4, 2010, Pages 365 – 388.
- 60 Chan, N.W. (2010) Impacts of Human Habitat Development on the Environment – Challenges and the Way Forward. *Malaysian Journal of Environmental Management* 11(2) (2010): 3-20.
- 61 Hong, C.W. and Chan, N.W. (2010) The Potentials, Threats and Challenges in Sustainable Development of Penang National Park. *Malaysian Journal of Environmental Management* 11(2) (2010): 95-109.
- 62 Ang, S.C. and Chan, N.W. (2010) Tourist Characteristics at Tabing Lick. *World Applied Sciences Journal* 10 (10) 1153-1159, 2010, IDOSI Publications [ISSN / E-ISSN: 1818-4952 / 1991-6426] [**Scopus Indexed**]
- 63 Hong, C.W. and Chan, N.W. (2010) Strengths-Weaknesses-Opportunities-Threats (SWOT) Analysis of Penang National Park for Strategic Ecotourism Management. *World Applied Sciences Journal* 10 (Special Issue on Tourism & Hospitality), 136-145, 2010, IDOSI Publications [ISSN / E-ISSN: 1818-4952 / 1991-6426] [**Scopus Indexed**].
- 64 Chan N W (2011) Malaysia's Waterman. *Cosmic*, April 2011, 7-9.

- 65 Azreen Rozainiee Abdullah, Chan, N.W. and Ahmad Puad Mat Som (2011) The Potentials and Perils of Ecotourism in Belum Temengor Forest Complex. *World Applied Sciences Journal* **12** (Special Issue on Tourism & Hospitality), 1-9. IDOSI Publications [ISSN / E-ISSN: 1818-4952 / 1991-6426] [**Scopus Indexed**]
- 66 Ang, S.C. and Chan, N.W. (2011) Ecotourism as a Tool in Salt Lick Conservation in Northern Peninsular Malaysia. *Malaysian Journal of Environmental Management* **12**(1) (2011): 15-22.
- 67 Hong, C.W. and Chan, N.W. (2011) The role of driving force pressure-state-impact-response (DPSIR) Framework for Penang National Park. *Malaysian Journal of Environmental Management* **12**(1) (2011): 85-95.
- 68 Azreen Rozainie Abdullah and Chan, N.W. (2011) Ecotourism Activities: Threats in Belum Temenggor Forest Complex? *Malaysian Journal of Environmental Management* **12**(1) (2011): 97-108.
- 69 Chuah, C.Y., Ong, K.S. and Chan, N.W. (2011) The role of non-governmental organizations (NGOs) in natural heritage conservation: A case study of Ulu Muda Forest Reserve. *Malaysian Journal of Environmental Management* **12**(1) (2011): 109-116.
- 70 Chan, N.W. (2011) Challenges in Developing Clan Jetties as Heritage Attractions for Conservation and Tourism in Penang, Malaysia. *Malaysian Journal of Environmental Management* **12**(1) (2011): 117-127.
- 71 Tarmiji Masron, Chan, N.W., Mohamad Luthfi Abdul Rahman dan Azmi Arifin (2011) "Peta Budaya Wilayah Utara: Metodologi dan Aplikasi." *SARI Jurnal Antarabangsa Alam dan Tamadun Melayu* **29** (1): 221-244.
- 72 Chan, N.W. (2011) Addressing Flood Hazards via Environmental Humanities in Malaysia. *Malaysian Journal of Environmental Management* **12**(2) (2011): 11-22.
- 73 Roy, R. and Chan, N.W. (2012) An assessment of agricultural sustainability indicators in Bangladesh: review and synthesis, *Environmentalist* **32**(1):99-110 ISSN0251-1088, DOI 10.1007/s10669-011-9364-3, 99-110 (Scopus Indexed, Springer).
- 74 Chan, N.W. (2012) Managing Urban Rivers and Water Quality in Malaysia for Sustainable Water Resources. *International Journal of Water Resources Development* **28** (2), 343-354.
- 75 Chan, N.W. (2012) Water Saving Devices. *Standards Matter* **1**(2012), 28-31. ISSN 1985-5117-02.
- 76 Chan, N.W. (2012) Smart Partnerships in Water Efficiency Management Towards a Green Economy with Particular Reference to Malaysia. *IWRA (India) Journal (Half Yearly Technical Journal of Indian Geographical Committee of IWRA)* **1**(Issue 1), 4-13. Print ISSN: 2277-1298. Online ISSN: 2277-1301.
- 77 Roy R, Chan, N.W. and Rainis, R (2014) Rice farming sustainability assessment in Bangladesh. *Sustainability Science*, **9**:31-44. doi: 10.1007/s11625-013-0234-4. [**ISI & Scopus indexed, Springer, IF- 3.37**]
- 78 Lai Chee Hui, Chan Ngai Weng and Nor Azazi Zakaria (2013) Non-Revenue Water Management in Malaysia: A Review of Selected Water Service Providers in Malaysia. *Jurnal Geografi* Vol. 1 No. 2, pp 7-16.
- 79 Ranjan Roy, Ngai Weng Chan, Takehiko Uemura and Hidefumi Imura (2013) The Vision of Agri-Environmental Sustainability in Bangladesh: How the Policies, Strategies and Institutions Delivered? *Journal of Environmental Protection*, **2013**, **4**:40-51 doi:10.4236/jep.2013.48A2006 Published Online August 2013 (<http://www.scirp.org/journal/jep>) [**ISI indexed, Scientific Research, IF- 0.31**]
- 80 Roy, R., Chan, N. W. and Rainis, R. (2013) Development of Indicators for Sustainable Rice Farming in Bangladesh: A Case Study with Participative Multi-Stakeholder Involvement, *World Applied Science Journal*, Vol. **22** (5):672-682, 2013. DOI:10.5829/idosi.wasj.2013.22.05.2890 (**ERA, Idosi**).

- 81 Roy, R., Chan, N. W. and Rainis, R. (2013) "Development of an Empirical Model of Sustainable Rice Farming: A Case Study from Three Rice-Growing Ecosystems in Bangladesh," *American-Eurasian Journal of Agricultural & Environmental Sciences*, Vol. 13 (4): 449-460, 2013. DOI:10.5829/idosi.aejas.2013.13.04.1946 **[ISI, Idosi]**
- 82 Mohammad Ghazi Bin Hj Ismail, Chan Ngai Weng, Haliza Abdul Rahman and Nor Azazi Zakaria (2013) Freundlich Isotherm Equilibrium Equations in Determining Effectiveness a Low Cost Absorbent to Heavy Metal Removal In Wastewater (Leachate) At Teluk Kitang Landfill, Pengkalan Chepa, Kelantan, Malaysia. *Journal of Geography and Earth Science* 1 (1) June 2013: 1-8 [ISSN: 2078-1156].
- 83 Ang, S.C., Chan, N.W. and Jabil B Mapjabil (2013) Sharing the Common Border. *Procedia – Social and Behavioural Sciences* 91 (2013) 41-47, doi: 10.1016/j.sbspro.2013.08.399 [ISSN: 1877-0428].
- 84 Narimah Samat, Aishah Knight Abd Shattar, Yasmin Sulaiman, Azizah Ab Manan & Chan Ngai Weng (2013) Investigating Geographic Distribution of Colorectal Cancer Cases: An Example from Penang State, Malaysia. *Asian Social Science*; Vol. 9, No. 17; 2013 [ISSN 1911-2017 E-ISSN 1911-2025]
- 85 Roy, R. and Chan, N.W. (2014) A Multi-Level Evaluation of Policy Integration of Human Resource Development in Agriculture Sector. *Natural Resources*, 5, 119-129. <http://dx.doi.org/10.4236/nr.2014.54013> **(ISI, Scientific Research, IF-0.47)**
- 86 Suhaimi Abdul-Talib, Chia-Chay Tay, Nor-Azazi Zakaria, Aminuddin Ab-Ghani, Lariyah Mohd-Sidek and Ngai-Weng Chan (2014) Water and Environmental Engineering: Embracing Multi-Disciplinary Approach Through Advanced and Integrated Technologies for Sustainability. *Journal of Asian Scientific Research* 4 (4), 194-206 [ISSN 2223-1331].
- 87 Syafiq Shaharuddin, Ngai Weng Chan, Nor Azazi Zakaria, Aminuddin Ab Ghani, Chun Kiat Chang and Ranjan Roy (2014) Constructed Wetlands as a Natural Resource for Water Quality Improvement in Malaysia. *Natural Resources*, 5, 292-298. doi:10.4236/nr.2014.57027 **(The impact factor is 0.47 based on the statistics from ISI Web of Knowledge)**
- 88 Reza Mohammadpour, Syafiq Shaharuddin, Chun Kiat Chang, Nor Azazi Zakaria, Aminuddin Ab Ghani and Ngai Weng Chan (2014) Prediction of water quality index in constructed wetlands using support vector machine. *Environmental Science and Pollution Research*, November 2014 (19 Nov 2014) DOI 10.1007/s11356-014-3806-7. @ Springer-Verlag Berlin Heidelberg 2014 **(The impact factor is 2.757 based on the statistics from ISI Web of Knowledge in 2013)**
- 89 Fei Zhang, Tashpolat Tiyp, Verner Carl Johnson, Hsiang-te Kung, Jian-li Ding, Qian Sun, Mei Zhou, Ardak Kelimu, Ilyas Nurmuhimmat and Ngai Weng Chan (2015) The influence of natural and human factors in the shrinking of the Ebinur Lake, Xinjiang, China, during the 1972–2013 period. *Environmental Monitoring and Assessment* 187: 4128 (Online), Springer International Publishing Switzerland. DOI 10.1007/s10661-014-4128-4 **(ISI, IF-1.679).**
- 90 Roy, R., Chan, N.W. and Quazi Nasim Ahmed (2014) A Delphi study to determine sustainability factors: the case of of rice farming in Bangladesh. *Journal of Sustainability Science and Management*, 9(1):56-68 **(Scopus, UMT Malaysia).**
- 91 Lai Chee Hui, Chan Ngai Weng and Phang Wai Leng (2014) Penang River Educational Programme: A Case Study of University Students' Involvement in Community River and Water Management. *International e-Journal of Community & Industry Engagement* Vol.1, No.2, December 2014, 1–6.
- 92 Roy, R., Chan, N.W. and Stefano Xenarios (2015) Sustainability of rice production systems: an empirical evaluation to improve policy. *Environment, Development and Sustainability*. DOI:10.1007/s10668-015-9638-x **(Scopus, Springer).**

- 93 Roy, R., Lai, C.H., Paul Ofei-Manu and Chan, N.W. (2015) Analysing temporal changes and sustainability of of rainfed “Aus Rice” production systems. *International Journal of Society System Science (In Press)* **(ERA, Inderscience)**.
- 94 Roy, R. and Chan, N.W. (2015) Determinants of sustainable irrigated and rainfed rice farming in Bangladesh. *Journal of Agricultural Science and Technology (In Press)*. **(ISI and Scopus, Tarbiat Modares University, Iran. IF-0.68)**.
- 95 Mohd Zulhalmi Ibrahim, Gusni Saat, Chan Ngai Weng, Jabil Mapjabil, Rosazman Hussin, Mohamad Pirdaus Yusoh (2015) Konsep, segmentasi dan potensi penyelidikan dalam pelancongan memancing di Malaysia. *Geografia - Malaysian Journal of Society and Space* 11 (Issue 12). Penerbit School of Social, Development and Environmental Studies, Faculty of Social Sciences and Humanities, Universiti Kebangsaan Malaysia, 9 – 22 (Citation Indexed Journal).
- 96 Jabil Mapjabil, Chan Ngai Weng, Norizan Md. Nor, Suriati Ghazali, Badariah Ab Rahman, Rosmiza Mohd Zainol, Mazdi Marzuki (2015) (2015) Attributes of highland ecotourism in Northern Peninsular Malaysia: A case study of resident knowledge. *Geografia - Malaysian Journal of Society and Space* 11 (Issue 12). Penerbit School of Social, Development and Environmental Studies, Faculty of Social Sciences and Humanities, Universiti Kebangsaan Malaysia, 42 – 51(Citation Indexed Journal).
- 97 Chan Ngai Weng, Badaruddin Mohamed and Hong Chern Wern (2015) Potentials, Threats and Challenges in Managing Natural Heritage in the Penang National Park. *Asian Journal of Humanities* Vol 23 (2), 47-65 **(Scopus)**.
- 98 Chiam, S.M., Chan, N.W., Goh, K.C., Seow, T.W., Kek S.L. and Goh, H.H. (2015) A Review of Six Functional Elements Affect the Cost of Solid Waste Management in Malaysia. *International Journal of Conceptions on Management and Social Sciences*, Vol 3 (2), Wairco Journal Publications, 13-17.
- 99 Alang Othman, Nor Azazi Zakaria, Aminuddin Ab Ghani, Chang, C.K. and Chan, N.W. (2016) Analysis of trends of extreme rainfall events using Mann Kendall test: a case study of Pahang and Kelantan river basins. *Jurnal Teknologi*, 78:6 (2016): 92-99 (www.jurnalteknologi.utm.my), sISSN 2180-3722.
- 100 Bong, C.H.J., Lau, T.L., A. Ab. Ghani and Chan, N.W.(2016) Sediment deposit thickness and its effect on critical velocity for incipient motion. *Water Science & Technology* Vol 74 Issue 8, Oct 2016, Pages 1876-1884 (Available Online 6 August 2016, wst2016376; DOI:10.2166/wst.2016.376)
- 101 Chan, N.W., Roy, R. and Chaffin, B. (2016) Water Governance in Bangladesh: An Evaluation of Institutional and Political Contexts. *Water* 8(9) MDPI AG, Basel, Switzerland, IF 1.687.
- 102 Mohammadpour, R., Shaharuddin, S., Zakaria, N.A., Ab. Ghani, A., Vakili, M. and Chan, N.W. (2016) Prediction of Water Quality Index in Free Surface Constructed Wetlands. *Environmental Earth Sciences*, Vol. 75, No. 139, pp. 1-12, doi: 10.1007/s12665-015-4905-6.
- 103 Lai, C.H.; Chan, N.W.; Roy, R. (2017) Understanding Public Perception of and Participation in Non-Revenue Water Management in Malaysia to Support Urban Water Policy. *Water* 2017, 9, 26. doi:10.3390/w9010026 (indexed by the Science Citation Index Expanded (Web of Science), Impact Factor: 1.687 (2015) ; 5-Year Impact Factor: 1.912 Until 2015).
- 104 Bakhtyar, B., Fudholi, A., Kabir Hassan, Azam, M., Lim, C.H., Chan, N.W. and Sopian, K. (2017) Review of CO₂ price in Europe using feed-in tariff rates. *Renewable and Sustainable Energy Reviews* 69 (2017), 685-691 (Elsevier, IF 6.798)
- 105 Tan, M.L., Tan, K.C., Chua, V.P. and Chan, N.W. (2017) Evaluation of TRMM Product for Monitoring Drought in the Kelantan River Basin, Malaysia. *Water* 9 (1), 1-15 (MDPI, IF 3.38).

- 106 Tan, M.L., Ab Latif Ibrahim, Zulkifli Yusop, Chua, V.P. and Chan, N.W. (2017) Climate change impacts under CMIP5 RCP scenarios on water resources of the Kelantan River Basin, Malaysia. *Atmospheric Research* Volume 189, 1 June 2017, Pages 1–10 (Online) (© 2017 Elsevier B.V, IF 3.377).
- 107 Chan, N. W. (2017) Enhancing environmental sustainability with solutions from the study of environmental humanities. *Journal of Advanced Civil Engineering and Research*, 4:103, 2017 (2550-1933© Ababil Publishers).
- 108 Sim, L.M., Carr, G. and Chan, N.W. (2017-Accepted) Resolving Water Disputes Via Interstate Co-operation And Stakeholders' Engagement: A Case Study From Muda River Basin. *Advanced Science Letters (ASL)* 23, 9126–9129 (2017).
- 109 Chan, N.W., Roy,R., Lai, C.H. and Tan, M.L. (2018) Social capital as a vital resource in flood disaster recovery in Malaysia, *International Journal of Water Resources Development*, DOI:10.1080/07900627.2018.1467312, 1-20.
- 110 Tan, M.L., Narimah Samat, Chan, N.W. and Roy, R. (2018) Hydro-Meteorological Assessment of Three GPM Satellite Precipitation Products in the Kelantan River Basin, Malaysia, *Remote Sensing*, 10, 1011:, 1-15 (Impact Factor : 3.952)
- 111 Ismail, M.G., Chan, N.W., Che Lah, N.F. (2018) Sustainable Management for Flood Loss Reduction: A Case Study of the December 2014 Big Flood in Pahang, *International Journal of Environment, Society and Space*, 6/1:, 34-42.
- 112 Ismail, M.G. and Chan, N.W., (2018), Evaluating the cost benefit through efficiency on Non Revenue Water (NRW) management: a case study at Bechah Tendong, Pasir Mas, Kelantan, Malaysia, *International Journal of Environment, Society and Space*, 6/1:, 57-65.
- 113 Chan, N.W. (2018) Combining Engineering Measures With Social Resilience in Coping With Urban Floods in Malaysia, Book of Abstracts of 2018 8th International Conference on Future Environment and Energy, Phuket, 10-12 January 2018.
- 114 Er, X.Y., Seow, T.W., Chi, K.L., Zaharah Ibrahim and Chan, N.W. (2018) Combined Adsorption and Biological Treatment for Landfill Leachate Management. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences* 50, Issue 1 (2018) 26-31 (Impact Factor: 0.146 5-year impact factor: 0.146 Quartile: Q1 Source: <http://www.mycite.my>)
- 115 Er, X.Y., Seow, T.W., Chi, K.L., Zaharah Ibrahim and Chan, N.W. (2018) Landfile Leachate Management by Using Combined Absorption and Biological Treatment. *Indexed Scopus Proceedings AIP proceedings 2016 0200041 (2018)* <http://doi.org/10.1063/1.5055443>, 1-6.
- 116 Mahamud, M.A., Hidefumi, I., Akio, O., Chan, N.W. and Samat, N. (2018) A strategic partnership in implementing waste-to-energy (WTE) technology in Penang, Malaysia. *Academy of Strategic Management Journal*, Volume 17, Issue 6, 2018, 1-8 (Scopus IF 0.22)
- 117 Lai, C.H., Tan, D.T., Chan, N.W. and Nor Azazi Zakaria (2018) Applying a system thinking approach to explore root causes of river pollution: a preliminary study of Pinang River in Penang state, Malaysia. Proceedings of the 21st IAHR-APD Congress 2018, Yogyakarta 2-5 September 2018, Indonesia “Multi-perspective water for sustainable development” ISBN 978-602-71762-7-0 (SCOPUS Indexed).
- 118 Chan, N.W., Tan, M.L., Ghani, A.A. and Zakaria, N.A. (2019) Sustainable urban drainage as a viable measure of coping with heat and floods due to climate change. *IOP Conf. Ser.: Earth Environ. Sci.* 257 012013 (SCOPUS Indexed).
- 119 Tan, M.L., Liew, J., Tangang, F.T., Chan, N.W. and Ngai, S.T. (2019) Future hydro-meteorological drought of the Johor River Basin, Malaysia, based on CORDEX-SEA projections. *Hydrological Sciences Journal*, DOI: 10.1080/02626667.2019.1612901 (ISI Indexed, Q2, IF 2.06)

(D) ARTICLES IN PROCEEDINGS:

- 1 Chan, N.W. (1989) Monsoon Effects on the Rainfall Patterns in the East Coast of Peninsular Malaysia. In *Proceedings of the 15th Conference of the New Zealand Geographical Society, Dunedin, 21st - 24th August*. Dunedin: the New Zealand Geographical Society, 239-45.
- 2 Chan, N.W. (1995) Flood Disaster Preparedness, Warning, Evacuation and Relief in Malaysia. In R. Clementson (ed) *Proceedings of 'Emergency Planning 95 - An International Conference', Lancaster (UK), 2 - 6 July 1995*. Preston: Emergency Planning H.Q. Lancashire County Council, 53-67.
- 3 Chan, N.W. (1997) Official Response To Flash and Monsoon Floods in Malaysia. In V Andersen and A N Hansen (eds) *The International Emergency Management Society Conference 1997 "National and International Issues Concerning Research and Applications, June 10-13, Copenhagen, Denmark*. Copenhagen: The International Emergency Management Society, 85-98.
- 4 Chan, N.W. (1997) Mitigating Natural Hazards and Disasters in Malaysia: Lessons Learnt from Tropical Storm Greg and its Aftermath. In K. S. Jomo (ed) *Proceedings of the First International Malaysian Studies Conference, 11-13 August 1997*. Kuala Lumpur: Malaysian Social Science Association. (In CD Rom)
- 5 Chan, N.W. and Parker, D.J. (1997) Aspek-Aspek Sosio-Ekonomi Berkaitan Dengan Bahaya Dan Bencana Banjir Di Semenanjung Malaysia. In Mohd. Razali Agus and Fashir Noor Sidin (Eds) *Proceedings of Persidangan Kebangsaan Kajian Sains Sosial, 29-30 September 1997*. Kuala Lumpur: University of Malaya, 294-311.
- 6 Chan, N.W. (1997) Evaluating the Most Significant Factors Affecting the Overall Subjective Severity and the Subjective Severity of Other Impacts of Flooding in Peninsular Malaysia. In Mohd. Razali Agus and Fashir Noor Sidin (Eds) *Proceedings of Persidangan Kebangsaan Kajian Sains Sosial, 29-30 September 1997*, Kuala Lumpur: University of Malaya, 259-273.
- 7 Chan, N.W. (1997) Disaster and Emergency Response to Flood Hazards in Peninsular Malaysia. In *IDER '97 Conference Proceedings*. Warminster (UK): Andrich International Limited, 206-224.
- 8 Chan, N.W. (1998) Institutional Issues for Water Management in Malaysia. In *Selected English Papers of The Asian Conference on Water and Wastewater Management, Tehran, March 2-4 1998*. Tehran: PR Committee of Asian Conference on Water and Wastewater Management, 27 - 42.
- 9 Chan, N.W. and Wan Ruslan Ismail (1998) Effects of Sedimentation and Flash Flooding on Surface Water Resources in Penang, Malaysia. In *Selected English Papers of The Asian Conference on Water and Wastewater Management, Tehran, March 2-4 1998*, Teheran: PR Committee of Asian Conference on Water and Wastewater Management, 300 - 322.
- 10 Chan, N.W. (1998) Environmental Effects of Rapid Development and Urbanisation: The Case of Hill Development and Land Reclamation in Penang. In Lim P H, Seng C E, Liew K Y and Mohd Asri Mohd Nawawi (Eds) *Chemistry and Technological Development in Environmental Management*. Penang: Universiti Sains Malaysia, 79 - 102.
- 11 Chan, N.W. (1999) Effective Use of Price Phasing for Water Conservation in Malaysia in the 21st Century. *Proceedings of the Second International Malaysian Studies Conference, 2-4 August 1999, Universiti Malaya, Kuala Lumpur*. Kuala Lumpur: Malaysian Social Science Association, Unpaged.
- 12 Chan, N.W. (1999) Employment of Non-Structural Flood Mitigation Measures in Alleviating Flood Problems in Penang. *Proceedings of the Second International Malaysian Studies Conference, 2-4 August 1999, Universiti Malaya, Kuala Lumpur*. Kuala Lumpur: Malaysian Social Science Association, Unpaged.
- 13 Chan, N.W. (1999) Major issues in relation to water resources management in Malaysia in the third millennium. In Abdul Aziz Abdul Samad, Megat Johari Mohd Noor, Badronnisa Yusuf, Mohd Razali Abdul Kadir and Azlan Abdul Aziz (Editors) *Proceedings in World*

- Engineering Congress 1999 "Towards the Engineering Vision: Global Challenges & Issues"*. Kuala Lumpur: The Institute of Engineers, Malaysia and Faculty of Engineering, Universiti Putra Malaysia, 21-26.
- 14 Chan, N.W. (1999) Integrating structural and non-structural flood mitigation measures for overall flood hazard management in urban areas in Malaysia. In Abdul Aziz Abdul Samad, Megat Johari Mohd Noor, Badronnisa Yusuf, Mohd Razali Abdul Kadir and Azlan Abdul Aziz (Editors) *Proceedings in World Engineering Congress 1999 "Towards the Engineering Vision: Global Challenges & Issues"*. Kuala Lumpur: The Institute of Engineers, Malaysia and Faculty of Engineering, Universiti Putra Malaysia, 27-34.
 - 15 Chan, N.W. (2000) Management of Flood Disasters in Malaysia: Combining Official and Traditional Flood Warning and Evacuation Systems for Overall Effective Flood Loss Reduction. In Juhary Ali, Norsiah Mat, Fariza Hashim and Nizamuddin Zainudin (Eds) *Proceedings of "The International Conference on Disaster Management: Lessons to be Learnt"*, April 29-30, Langkawi. Sintok: School of Management, Universiti Utara Malaysia, 19-37.
 - 16 Chan, N.W. (2000) The 1997/98 Nationwide Water Crisis in Malaysia: What Are the Causes and Lessons Learnt? In Juhary Ali, Norsiah Mat, Fariza Hashim and Nizamuddin Zainudin (Eds) *Proceedings of "The International Conference on Disaster Management: Lessons to be Learnt"*, April 29-30, Langkawi. Sintok: School of Management, Universiti Utara Malaysia, 270-284.
 - 17 Chan, N.W. (2000) El Nino and the 1998 Water Crisis in Malaysia: Causes, Lessons and Solutions. In K.M. Kowalski and M.A. Trevits (eds) *Contingencies, Emergency, Crisis, And Disaster Management: Emergency Management in the Third Millennium*. Pittsburg: The International Emergency Management Society (TIEMS), 32-41.
 - 18 Chan, N.W. and Kung, H.T. (2001) "Management of River Pollution as a Tool in Water Resources Management: Some Examples from Malaysia." In K.L. Risher (Ed) *2001 Proceedings of the Thirty-First Mississippi Water Resources Conference, April 10-11, 2001, Raymond, Mississippi*. Raymond: Water Resources Research Institute and Mississippi State University, Mississippi State, 108-120.
 - 19 Sears, P., Chan, N.W. and Kung, H.T. (2001) "Major Issues and Concerns of the Mekong River, An International River." In K.L. Risher (Ed) *2001 Proceedings of the Thirty-First Mississippi Water Resources Conference, April 10-11, 2001, Raymond, Mississippi*. Raymond: Water Resources Research Institute and Mississippi State University, Mississippi State, 147-158.
 - 20 Chan, N.W. and Kung, H.T. (2001) "Effects of Flooding Due to Tropical Storm Greg 1996 in Sabah, Malaysia: Some Lessons Learnt in Emergency Management." In *TIEMS 2001 "Emergency Management Towards Co-operation and Global Harmonisation"*. Oslo: The International Emergency Management Society (TIEMS), 4.3.1 - 4.3.10 (In CD Rom).
 - 21 Liu, P.S. and Chan, N.W. (2001) "The Malaysian Flood Hazard Management Programme." In *TIEMS 2001 "Emergency Management Towards Co-operation and Global Harmonisation"*. Oslo: The International Emergency Management Society (TIEMS), 4.9.1 - 4.9.9 (Published in CD Rom).
 - 22 Chan, N.W., Ab. Latif Ibrahim and Radiah Yusof (2001) Setingan dan Penetapan Penempatan di Dataran Banjir di Malaysia. In Mohd Yusof Hj Othman, Idris Abd Ghani, Musa Ahmad and Supian Samat (Ed) *Proceedings of the National Conference on Research and Development IPTA 2001*. Bangi: Penerbit Pusat Pengurusan Penyelidikan, Universiti Kebangsaan Malaysia, 463-470.
 - 23 Lee, O.P. and Chan, N.W. (2002) Incidence of Acid Rain in Peninsular Malaysia and Its Implications on Surface River Water Resources. In N W Chan (Ed) *Rivers: Towards Sustainable Development*. Pulau Pinang: Penerbit Universiti Sains Malaysia, 70-80.

- 24 Chan, N.W. (2002) Flood Hazards and Disasters in Malaysia: Causes, Impacts and Solutions with Respect to River Floods. In N.W. Chan (Ed) *Rivers - Towards Sustainable Development*. Pulau Pinang: Penerbit Universiti Sains Malaysia, 114-127.
- 25 Chan, N.W., Kung, H.T., Tashpolat, T. and Liu, P.S. (2002) *Hazards as A Form of Unsustainable Development in Penang Island*. In N.W. Chan (Ed) *Rivers: Towards Sustainable Development*. Pulau Pinang: Penerbit Universiti Sains Malaysia, 128-135.
- 26 Ab Latiff Ibrahim, Habibah Hj Lateh, Wan Ruslan Ismail, Chan, N.W., Kung, H.T. and Liu, P. S. (2002) *Effects of Hill Land Development and Soil Erosion on Sedimentation and Water Resources in Malaysia*. In N.W. Chan (Ed) *Rivers: Towards Sustainable Development*. Pulau Pinang: Penerbit Universiti Sains Malaysia, 314-319.
- 27 Sears, P., Chan, N.W., Kung, H.T., Liu, P.S. and Tashpolat, T. (2002) Transboundary Issues Affecting the Mekong River: Some Observations. In N.W. Chan (Ed) *Rivers: Towards Sustainable Development*. Pulau Pinang: Penerbit Universiti Sains Malaysia, 390-398.
- 28 Rasagam, G. and Chan, N.W. (2002) The Role of Non-Governmental Organisations in Public Awareness and Environmental Education Towards Protection, Conservation and Rehabilitation of Rivers: Some Examples from the Work of Water Watch Penang. In N.W. Chan (Ed) *Rivers: Towards Sustainable Development*. Pulau Pinang: Penerbit Universiti Sains Malaysia, 470-480.
- 29 Chan, N.W., Ab Latif Ibrahim, Kung, H.T. and Liu, P.S. (2002) "Employing Nature To Combat Floods: Some Experiences From Malaysia". In Juhary Ali, Badruddin A Rahman, Zahari Mohamed and Nizamuddin Zainuddin (Ed) *Disaster Management: Strengthening The National Security Capabilities*. Alor Setar: Penerbit Ustara, 143-158.
- 30 Chan, N.W., Ab Latif Ibrahim, Radiah Yusoff and Nor Aini Ismail (2002) "The Significance of Stress and Other Intangible Losses during Major Flood Disasters in Malaysia". In Juhary Ali, Badruddin A Rahman, Zahari Mohamed and Nizamuddin Zainuddin (Ed) *Disaster Management: Strengthening The National Security Capabilities*. Alor Setar: Penerbit Ustara, 159-176.
- 31 Kung, H.T., Liu, P.S., Chan, N.W. and Chang, T.S. (2002) "Assessment of Earthquake Vulnerability for Essential Facilities in East Arkansas". In Juhary Ali, Badruddin A Rahman, Zahari Mohamed and Nizamuddin Zainuddin (Ed) *Disaster Management: Strengthening The National Security Capabilities*. Alor Setar: Penerbit Ustara, 239-250.
- 32 Liu, P.S., Kung, H.T. and Chan, N.W. (2002) "Managing Wildfire Hazard Using GIS Modelling in a Heterogeneous Landscape". In Juhary Ali, Badruddin A Rahman, Zahari Mohamed and Nizamuddin Zainuddin (Ed) *Disaster Management: Strengthening The National Security Capabilities*. Alor Setar: Penerbit Ustara, 259-270.
- 33 Hajar Abdul Rahim, Radiah Yusoff, Noraini Ismail and Chan, N.W. (2002) "*The Role of Women in Water Conservation in Malaysia*". In Ramlan Omar, Zulfahmi Ali Rahman, Mohd Talib Latif, Tukimat Lihan and Jumaat Hj. Adam (Eds) *Proceedings of the International Conference "Regional Symposium on Environment & Natural Resources: Utilization, Management & Sustainable Development of the Environment and Natural Resources"*, Kuala Lumpur, 10-11 April 2002. Bangi: School of Environmental Science and Natural Resources UKM, 161-170.
- 34 Chan, N.W., Ab Latif Ibrahim and Hajar Abdul Rahim (2002) "The Role of Women in Water Conservation in Malaysia". In Ramlan Omar, Zulfahmi Ali Rahman, Mohd Talib Latif, Tukimat Lihan and Jumaat Hj. Adam (Eds) *Proceedings of the International Conference "Regional Symposium on Environment & Natural Resources: Utilization, Management & Sustainable Development of the Environment and Natural Resources"*, Kuala Lumpur, 10-11 April 2002. Bangi: School of Environmental Science and Natural Resources UKM, 68-79.
- 35 Chan, N.W. (2002) Effects of the 1997/98 El Nino in the IMT-GT Region: Issues and Challenges. *Proceedings of the International Conference – The Fourth Regional IMT-GT Uninet Conference 2002 "Future Scenario in Biological Research: Insights and Cooperation"*. Penang: Universiti Sains Malaysia, 379-382.

- 36 Lee, O.P. and Chan, N.W. (2002) Effects and Implications of Acid Rain on Surface Water Resources in Peninsular Malaysia. In Jamaluddin Md Jahi, Mohd Jailaini Mohd Nor, Kamaruzzaman Sopian, Ismail Sahid and Abdul Hadi Harman Shah (Eds) *Realising Agenda 21: Proceedings International Conference on Environmental Management: Ten Years After Rio*. Bangi: Environmental Management Programme, Centre for Graduate Studies, Universiti Kebangsaan Malaysia, 226-236.
- 37 Chan, N.W. (2002) *A Critical Review of Malaysia's Accomplishments on Water Resources Management Under Agenda 21*. In Jamaluddin Md Jahi, Mohd Jailaini Mohd Nor, Kamaruzzaman Sopian, Ismail Sahid and Abdul Hadi Harman Shah (Eds) *Realising Agenda 21: Proceedings International Conference on Environmental Management: Ten Years After Rio*. Bangi: Environmental Management Programme, Centre for Graduate Studies, Universiti Kebangsaan Malaysia, 315-334.
- 38 Chan, N.W. (2002) "Consumers' Expectations of Water Service Organisations". *Proceedings of National Seminar "JTJAD 2002 Bekalan Air: Strategi & Cabaran"*, Melaka, 16-18 Disember 2002. Melaka: Melaka State Government, Melaka Water Corporation and Action Committee on District Water Engineers, 1-12.
- 39 Liu, P.S., Hsiang, Kung, H.T. and Chan, N.W. (2002) "GIS Application in Sudden Infant Death Syndrome (SIDS) Pattern Recognition". *Proceedings of the 22nd ESRI International User Conference, San Diego, California, July 8-12, 2002* (<http://gis.esri.com/library/userconf/proc02/abstracts/a0972.html>)
- 40 Chan, N.W. (2003) *Using Wetlands as Natural Forms of Flood Control*. In Ahyaudin Ali, Che Salmah Md Rawi, Mashhor Mansor, Reiko Nakamura, Sundari Ramakrishna and Taej Mudkur (Editors) *The Asian Wetlands: Bringing Partnerships into Good Wetland Practices*. Penang: Ministry of Science, Technology and the Environment, Malaysia, Universiti Sains Malaysia, Ramsar Center Japan and Wetlands International Asia Pacific. Penerbit Universiti Sains Malaysia, Part VII: Climate Change, 909-919.
- 41 Barrow, C.J., Chan, N.W., Clifton, J., Chang, W.F., Wong, C.F. and Ting, P.L. (2003) Effects of Environmental Degradation on Orang Asli Livelihoods: a Case Study in the Cameron Highlands. In Wan Ruslan Ismail, Narimah Samat, Aziz Abdul Majid, Moha Asri Abdullah and Anisah Abdullah (Editors) *Society, Space & Environment in a Globalised World: Challenges and Prospects*. Penang: Geography Section Universiti Sains Malaysia and National Geographical Association of Malaysia, 437-448.
- 42 Chan, N.W., Anisah Lee Abdullah, Ab Latif Ibrahim and Suriati Ghazali (2003) River Pollution and Restoration Towards Sustainable Water Resources Management In Malaysia. In Wan Ruslan Ismail, Narimah Samat, Aziz Abdul Majid, Moha Asri Abdullah and Anisah Abdullah (Editors) *Society, Space & Environment in a Globalised World: Challenges and Prospects*. Penang: Geography Section Universiti Sains Malaysia and National Geographical Association of Malaysia, 208-219.
- 43 Chan, N.W., Clifton, J., Barrow, C., Chang, W.F., Wong, C.F. and Ting, P.L. (2003) Development Issues and Prospects in Cameron Highlands. In Wan Ruslan Ismail, Narimah Samat, Aziz Abdul Majid, Moha Asri Abdullah and Anisah Abdullah (Editors) *Society, Space & Environment in a Globalised World: Challenges and Prospects*. Penang: Geography Section Universiti Sains Malaysia and National Geographical Association of Malaysia, 240-251.
- 44 Clifton, J., Barrow, C., Chan, N.W., Chang, W.F., Wong, C.F. and Ting, P.L. (2003) Ecotourism in the Cameron Highlands: Issues and Challenges. In Wan Ruslan Ismail, Narimah Samat, Aziz Abdul Majid, Moha Asri Abdullah and Anisah Abdullah (Editors) *Society, Space & Environment in a Globalised World: Challenges and Prospects*. Penang: Geography Section Universiti Sains Malaysia and National Geographical Association of Malaysia, 383-392.
- 45 Tan, S.E., Chan, N.W. and Wan Ruslan Ismail (2003) Industri Makanan dan Kesedaran Alam Sekitar di Pulau Pinang. In Wan Ruslan Ismail, Narimah Samat, Aziz Abdul Majid, Moha

- Asri Abdullah and Anisah Abdullah (Editors) *Society, Space & Environment in a Globalised World: Challenges and Prospects*. Geography Section Universiti Sains Malaysia and National Geographical Association of Malaysia, Penang, 393-406.
- 46 Chan, N.W. (2003) Pengurusan Air Pada Abad Ke 21: Isu, Cabaran dan Prospek. In Jamaluddin Md. Jahi, Ismail Sahid, Kadir Arifin, Mohd Jailani Mohd Nor, Kamaruzzaman Sopian and Md. Pauzi Abdullah (Editors) *Pengurusan Persekitaran 2003*. Bangi: Pusat Pengajian Siswazah UKM, 3-32.
- 47 Kung, H.T., Robinson, J.B. and Chan, N.W. (2003) Lessons from the past: the Du Jiang Yen – China’s ancient irrigation project. In Jamaluddin Md. Jahi, Ismail Sahid, Kadir Arifin, Mohd Jailani Mohd Nor, Kamaruzzaman Sopian and Md. Pauzi Abdullah (Editors) *Pengurusan Persekitaran 2003*. Bangi: Pusat Pengajian Siswazah UKM, 327-341.
- 48 Chan, N.W., Barrow, C., Clifton, J. and Kung, H.T. (2003) An assessment of climate change in Cameron Highlands. In Jamaluddin Md. Jahi, Ismail Sahid, Kadir Arifin, Mohd Jailani Mohd Nor, Kamaruzzaman Sopian and Md. Pauzi Abdullah (Editors) *Pengurusan Persekitaran 2003*. Bangi: Pusat Pengajian Siswazah UKM, 585-599.
- 49 Radiah Yusoff, Nor’ Aini Ismail and Chan, N.W. (2003) “Terima kasih, kak” – Satu Perlakuan Literasi Budaya. In Ambigapathy Pandian (ed.) *Bahasa dan Literasi: Penyelidikan dan Peninjauan Untuk Pendidik*. Serdang: Universiti Putra Malaysia Press, 33-39.
- 50 Radiah Yusoff, Nor’ Aini Ismail and Chan, N.W. (2003) “Kitarlah – Cobaan ... Satu Pengalaman Sebenar Literasi Alam Sekitar. In Ambigapathy Pandian (ed.) *Bahasa dan Literasi: Penyelidikan dan Peninjauan Untuk Pendidik*. Serdang: Universiti Putra Malaysia Press, 88-92.
- 51 Chan, N.W. (2004) *Tackling Water Crisis: Is Privatisation and Increasing Water Tariffs The Answer?* Proceedings in CD Rom of the International Conference “Inaugural International Conference – Southeast Asia Since 1945: Reflections and Visions”, 20 – 23 July 2004, Penang, Malaysia. Penang: Asia Pacific Research Unit, School of Humanities, Universiti Sains Malaysia.
- 52 Clifton J., Barrow, C.J., Chan, N.W. and Tan, Y.L. (2004) *Planning For Ecotourism in Fragile Environments: Case Studies From Malaysia and Indonesia*. Proceedings in CD Rom of the International Conference “Inaugural International Conference – Southeast Asia Since 1945: Reflections and Visions”, 20 – 23 July 2004, Penang, Malaysia. Penang: Asia Pacific Research Unit, School of Humanities, Universiti Sains Malaysia.
- 53 Chan, N.W., Nor Azazi Zakaria, Aminuddin Ab Ghani and Kung, H.T. (2004) *Forest Conservation and Rehabilitation in Flood Hazard Reduction: Experiences From USA, China and Malaysia*. Proceedings in CD Rom of the International Conference “Inaugural International Conference – Southeast Asia Since 1945: Reflections and Visions”, 20 – 23 July 2004, Penang, Malaysia. Penang: Asia Pacific Research Unit, School of Humanities, Universiti Sains Malaysia.
- 54 Barrow, C.J., Clifton, J., Chan, N.W. and Tan, Y.L. (2004) “Sustainable Development in the Cameron Highlands, Malaysia. In Jamaluddin Md. Jahi, Kadir Ariffin, Salmijah Surif and Shaharudin Idrus (Editors) *Facing Changing Conditions. Proceedings of the 2nd Bangi World Conference on Environmental Management*. Bangi: Environmental Management Programme, Centre for Graduate Studies Universiti Kebangsaan Malaysia and Environmental Management Society (EMS) Malaysia, 222-234.
- 55 Sharma, D.S.K., Mathew, D., Chan, N.W. and Wong, C.F. (2004) “Employment of Water Demand Management Measures for Effective Water Resources Management in Malaysia”. In Jamaluddin Md. Jahi, Kadir Ariffin, Salmijah Surif and Shaharudin Idrus (Editors) *Facing Changing Conditions. Proceedings of the 2nd Bangi World Conference on Environmental Management*. Bangi: Environmental Management Programme, Centre for Graduate Studies Universiti Kebangsaan Malaysia and Environmental Management Society (EMS) Malaysia, 235-249.

- 56 Radiah Yusof, Noraini Ismail, Chan, N.W. and Ab Latif Ibrahim (2004) "Squatters, Floodplain Occupance and Effects on Rivers: Some Experiences from Malaysia". In Jamaluddin Md. Jahi, Kadir Ariffin, Salmijah Surif and Shaharudin Idrus (Editors) *Facing Changing Conditions. Proceedings of the 2nd Bangi World Conference on Environmental Management*. Bangi: Environmental Management Programme, Centre for Graduate Studies Universiti Kebangsaan Malaysia and Environmental Management Society (EMS) Malaysia, 431-441.
- 57 Sin, H.T. and Chan, N.W. (2004) "The Urban Heat island Phenomenon in Penang Island: Some Observations During the Wet and Dry Season". In Jamaluddin Md. Jahi, Kadir Ariffin, Salmijah Surif and Shaharudin Idrus (Editors) *Facing Changing Conditions. Proceedings of the 2nd Bangi World Conference on Environmental Management*. Bangi: Environmental Management Programme, Centre for Graduate Studies Universiti Kebangsaan Malaysia and Environmental Management Society (EMS) Malaysia, 504-518
- 58 Chan, N.W. (2004) Sustainable River Management in Malaysia: Involving All Stakeholders. In Aminuddin Ab. Ghani, Nor Azazi Zakaria, Rozi Abdullah and Mohd. Sanusi S. Ahmad (Editors) *"Rivers '04 Proceedings of the 1st International Conference on Managing Rivers in the 21st Century: Issues & Challenges"*. River Engineering and Urban Drainage Research Centre (REDAC), Engineering Campus, Universiti Sains Malaysia, 35-61.
- 59 Chang, W.F., Chan, N.W., Hajar Abd Rahim and Khor Hung Teik (2004) Approaching Integrated Water Resources Management (IWRM) Via Smart-Partnerships with Government, Industry and Other NGOs – The Role of Water Watch Penang. In Aminuddin Ab. Ghani, Nor Azazi Zakaria, Rozi Abdullah and Mohd. Sanusi S. Ahmad (Editors) *"Rivers '04 Proceedings of the 1st International Conference on Managing Rivers in the 21st Century: Issues & Challenges"*. River Engineering and Urban Drainage Research Centre (REDAC), Engineering Campus, Universiti Sains Malaysia, 302-313.
- 60 Sharma, D., Daria Mathew, Chan, N.W. and Lee, B.H. (2004) Catchment and Water Pollution Management for Protection of Rivers and Water Resources: Experiences from Malaysia. In Aminuddin Ab. Ghani, Nor Azazi Zakaria, Rozi Abdullah and Mohd. Sanusi S. Ahmad (Editors) *"Rivers '04 Proceedings of the 1st International Conference on Managing Rivers in the 21st Century: Issues & Challenges"*. River Engineering and Urban Drainage Research Centre (REDAC), Engineering Campus, Universiti Sains Malaysia, 375-393.
- 61 Chan, N.W., Nor Azazi Zakaria, Aminuddin Ab Ghani and Tan Yen Lian (2004) Integrating Official and Traditional Flood Hazard Management in Malaysia. In Aminuddin Ab. Ghani, Nor Azazi Zakaria, Rozi Abdullah and Mohd. Sanusi S. Ahmad (Editors) *"Rivers '04 Proceedings of the 1st International Conference on Managing Rivers in the 21st Century: Issues & Challenges"*. River Engineering and Urban Drainage Research Centre (REDAC), Engineering Campus, Universiti Sains Malaysia, 409-419.
- 62 Sathiamurthy, E. and Chan, N.W. (2005) Hydrodynamic Behaviour Change Due To Channel Modification at Rambai River Outlet, Juru River Basin, Penang. In Jamaluddin Md. Jahi, Kadir Ariffin, Azahan Awang, Kadaruddin Aiyub and Muhammad Rizal Razman (Ed) *Pengurusan Persekitaran 2005*. Bangi: Environmental Management Programme and Centre for Postgraduate Studies, Universiti Kebangsaan Malaysia, 15-27.
- 63 Sin, H.T, Chan, N.W. and Wan Ruslan Ismail (2005) Variasi Reruang dan Masa Fenomena Pulau Haba dan Pulau Sejuk di Pulau Pinang. In Jamaluddin Md. Jahi, Kadir Ariffin, Azahan Awang, Kadaruddin Aiyub and Muhammad Rizal Razman (Ed) *Pengurusan Persekitaran 2005*. Bangi: Environmental Management Programme and Centre for Postgraduate Studies, Universiti Kebangsaan Malaysia, 319-336.
- 64 Lee, B.H. and Chan, N.W. (2005) Eko-pelancongan dan Orang Asli di Cameron Highland. In Jamaluddin Md. Jahi, Kadir Ariffin, Azahan Awang, Kadaruddin Aiyub and Muhammad Rizal Razman (Ed) *Pengurusan Persekitaran 2005*. Bangi: Environmental Management Programme and Centre for Postgraduate Studies, Universiti Kebangsaan Malaysia, 519-526.

- 65 Chan, N. W. (2005) Sustainable Water Use – An NGO Perspective. In *Proceedings of the National Conference and Exhibition on Sustainability, Malaysia 2005 (SM 2005)*. Kuala Lumpur: Malaysian Environmental NGOs (MENGOs). Published in CD Rom.
- 66 Sathiamurthy, E. and Chan, N.W. (2005). “The application of GPS and remote sensing technology in hydrological modeling of a coastal floodplain: a case study of Rambai Valley, Penang.” *Proc. 4th Malaysian Remote Sensing and GIS Conference and Exhibition*, Kuala Lumpur, 5 – 6 April 2005.
- 67 Chan, N.W. and Nitivattananon V (2006) Gender Perspectives in Water Demand Management: Examples from Malaysia and Thailand. In Jamaluddin Md. Jahi, Kadir Arifin, Azahan Awang and Muhammad Rizal Razman (Editors) *Managing Changes. Proceedings 3rd Bangi World Conference On Environmental Management, 5-6 September 2006, Bangi, Malaysia*. Bangi: Environmental Management Programme, Centre For Graduate Studies, Universiti Kebangsaan Malaysia and Environmental Management Society (EMS) of Malaysia, 200-220.
- 68 Stanfield, C., Kung, .H.T. and Chan, N.W. (2006) A Predictive Model of Lead Poisoning Risk In Shelby County. In Jamaluddin Md. Jahi, Kadir Arifin, Azahan Awang and Muhammad Rizal Razman (Editors) *Managing Changes. Proceedings 3rd Bangi World Conference on Environmental Management, 5-6 September 2006, Bangi, Malaysia*. Bangi: Environmental Management Programme, Centre For Graduate Studies, Universiti Kebangsaan Malaysia and Environmental Management Society (EMS) of Malaysia, 295-303.
- 69 Chan, N.W. (2006) “Working Group 2: Identification of Support Mechanisms to Enhance Engagement of Communities in Effective Implementation of MEAs”. *Proceedings Bengkel Antarabangsa “Capacity Building for Implementation of the Convention of Biological Diversity for the 14 LDCs in the Asia-Pacific Region & Multilateral Environmental Agreements and the Role of Communities, 9-13 Oktober 2006, AIT Bangkok”*. Bangkok: AIT Extension and UNEP (In CD Rom)
- 70 Chan, N.W. and Nitivattananon V (2006) “Effective Management of Water Resources Via Demand Management: Some Examples from Southeast Asia”. In Sethaputra S and Promma K (Editors) *Proceedings of IHP International Symposium on Managing Water Supply for Growing Demand, Bangkok, Thailand, 16-20 October 2006*. Jakarta, UNESCO: IHP Technical Documents in Hydrology No 8, 23-38.
- 71 Chan, N.W. and Nitivattananon V. (2006) “Water demand management for sustainable water resources management in Malaysia.” *Proceedings of International Conference on Environment (ICENV 2006): Knowledge-based Environmental Management and Sustainable Development, Penang, 13-15 November 2006*. Penang: Universiti Sains Malaysia. Published in CD Rom (ISBN 983-3391-54-0)
- 72 Chan, N.W., N.A. Zakaria, A.Ab. Ghani and Nitivattananon V. (2006) “Incorporating Rainfall Harvesting Mechanisms into Building Designs for Water Resources Management.” *Proceedings of Regional Conference on Urban Water and Sanitation in Southeast Asian Countries, Vientiane, Lao PDR, 22-24 November 2006*. Pathumthani: Asian Institute of Technology, 173-184.
- 73 Jamaluddin Aziz and Chan, N.W. (2006) “Water Watch Penang and Community Participation in Water Resource Management in Penang, Malaysia.” *Proceedings of Regional Conference on Urban Water and Sanitation in Southeast Asian Countries, Vientiane, Lao PDR, 22-24 November 2006*. Pathumthani: Asian Institute of Technology, 291-302.
- 74 Chan, N.W. and Nitivattananon V. (2006) “Women’s Role in water Conservation in Malaysia.” *Proceedings of Regional Conference on Urban Water and Sanitation in Southeast Asian Countries, Vientiane, Lao PDR, 22-24 November 2006*. Pathumthani: Asian Institute of Technology, 323-335.
- 75 Chan, N.W. (2006) River catchment Awareness and Monitoring Programme for Pinang River, Penang State, Malaysia: Role of Water Watch Penang, Private Sector and Local

- Community. In *Proceedings of the International Symposium on Community Activities for the Conservation of Water Environment – Lessons Learnt from Community Activities*. Tokyo: Ministry of the Environment, Japan, 48-51.
- 76 Chan, N.W. (2007) The Perbadanan Bekalan Air Pulau Pinang Sdn Bhd (PBAPP): A Good Example of Corporate Social Responsibility of a Private Water Company. In *Proceedings of International Forum on Water Environment Governance in Asia – Technologies and Institutional Systems for Water Environmental Governance*, Ministry of Environment, Japan, Tokyo, 19-25.
- 77 Yun, D., Cai, S.M., We, X.U., Kung, H.T., He, B., Xue, H.P., Wu, S.J. and Chan, N.W. (2007) “A Study of Historical Changes of Lakes in Jiangnan Plain and Dongting Lake Area in the Middle Reaches of the Yangtze”. In Moh Sanusi S. Ahmad, Rozi Abdullah, Aminuddin Ab Ghani, Nor Azazi Zakaria, Chang C.K., Stephen Rundi Utom, Mohd Yakup Kari and Hitler E.D. (Editors) *Proceedings of 2nd International Conference on Managing Rivers in the 21st Century: Solutions Towards Sustainable River Basins*. Penang: REDAC, 77-82.
- 78 Chan, N.W. and Chang, W.F. (2007) “Non-Governmental Organisations and Community Participation in River Management in Penang, Malaysia.” In Moh Sanusi S. Ahmad, Rozi Abdullah, Aminuddin Ab Ghani, Nor Azazi Zakaria, Chang C.K., Stephen Rundi Utom, Mohd Yakup Kari and Hitler E.D. (Editors) *Proceedings of 2nd International Conference on Managing Rivers in the 21st Century: Solutions Towards Sustainable River Basins*. Penang: REDAC, 83-89.
- 79 Chan, N.W. (2007) Catchment Protection as a Key Towards Sustainability of Water Resources in Malaysia. Proceedings of the Conference on Managing Challenges Towards Sustainable Water Resources & Environment, 26-27 March 2007, Grand BlueWave Hotel, Shah Alam. Published online on the ISIS website (http://www.isis.org.my/html/events/events_materials.htm 21/09/07)
- 80 Chan, N.W. (2007) A Comparative Study of Water Conservation in Hotels in Georgetown (Malaysia) and Pattaya (Thailand). Proceedings of the 3rd Southeast Asia Water Forum, 22-26 October 2007, Kuala Lumpur. Kuala Lumpur: Jabatan Pengairan dan Saliran Malaysia and Malaysian Water Partnership. Published in CD Rom.
- 81 Chan, N.W. (2008) Penawaran dan Permintaan Air di Bandar: Isu-Isu Pengurusan Air dan Cabaran dalam Kelestarian Bandar. In Jamaluddin Md Jahi, Kadaruddin Aiyub, Kadir Arifin, Muhammad Rizal Razman, Azahan Awang, Abdul Samad Hadi, Abdul Hadi Harman Shah and Laily Bin Din (Eds) *Ekosistem Bandar Perindustrian – Prosiding Bengkel Ekosistem Bandar Perindustrian, Putrajaya, 12-13 Februari 2008*, 15-30.
- 82 Chan, N.W. (2008) Role of Center for Education and Training in Renewable Energy and Energy Efficiency (CETREE) in Awareness, Education and Training Towards Energy Efficiency and Renewable Energy in Malaysia. In Proceedings Industrial Applications of Energy Systems, Faculty of Engineering, Sohar University, Sultanate of Oman, 1-2 April 2008 (In CD Rom Format).
- 83 Barrow, C.J., Chan, N.W. and Tarmiji Masron (2008) Issues and Challenges of Sustainable Agriculture in the Cameron Highlands. In Jamaluddin Md Jahi, Kadaruddin Aiyub, Muhammad Rizal Razman, Kadir Arifin and Azahan Awang (Eds) *Human Habitat and Environmental Change*. Proceedings. Bangi: Institute of the Malay World and Civilization (ATMA), Universiti Kebangsaan Malaysia and Environmental Management Society, Malaysia, 261-277.
- 84 Chan, N.W. (2008) Ecotourism and Environmental Conservation of Small Islands in the East Coast of Peninsular Malaysia. In Jamaluddin Md Jahi, Kadaruddin Aiyub, Muhammad Rizal Razman, Kadir Arifin and Azahan Awang (Eds) *Human Habitat and Environmental Change*. Proceedings. Bangi: Institute of the Malay World and Civilization (ATMA), Universiti Kebangsaan Malaysia and Environmental Management Society, Malaysia, 278-288.
- 85 Hong, C.W. and Chan, N.W. (2008) A Conceptual Study on Sustainable National park management Model by Using DRSIR Framework: The Case of Penang National Park. In

- Jamaluddin Md Jahi, Kadaruddin Aiyub, Muhammad Rizal Razman, Kadir Arifin and Azahan Awang (Eds) *Human Habitat and Environmental Change*. Proceedings. Bangi: Institute of the Malay World and Civilization (ATMA), Universiti Kebangsaan Malaysia and Environmental Management Society, Malaysia, 354-361.
- 86 Chan, N.W. (2008) Tourist Perception of the Environment in Three Small Island Resorts Off the East Coast of Peninsular Malaysia. In *Proceedings of the International Conference on Environment 2008 – Environmental Management and Technologies Towards Sustainable Development, 15-17 December 2008, Penang, Malaysia* (In CD Rom).
- 87 Barrow, C.J., Chan, N.W. and Clifton, J. (2009) *Challenges and potentials of ecotourism towards sustainable development in Cameron Highlands, Malaysia*. Proceedings of the 2nd National Conference on Society, Space & Environment 2008 “Towards Sustainable Heritage & Future”, 2-3 June 2009, School of Humanities, Universiti Sains Malaysia, Penang. In CD Rom.
- 88 Hong, C.W. and Chan, N.W. (2009) *A conceptual study on sustainable national park management modelling by using the driving force-pressure-state-impact-response (dpsir) framework: the case of Penang National Park*. Proceedings of the 2nd National Conference on Society, Space & Environment 2009 “Towards Sustainable Heritage & Future”, 2-3 June 2009, School of Humanities, Universiti Sains Malaysia, Penang. In CD Rom.
- 89 Chan, N.W., Barrow, C.J. and Tarmiji Masron (2009) *Characteristics and challenges of sustainable farming in the Cameron Highlands*. Proceedings of the 2nd National Conference on Society, Space & Environment 2009 “Towards Sustainable Heritage & Future”, 2-3 June 2009, School of Humanities, Universiti Sains Malaysia, Penang. In CD Rom.
- 90 Ang, S.C. and Chan, N.W. (2009) *The potentials, threats and challenges in sustainable development of Belum-Temengor rainforest complex*. Proceedings of the 2nd National Conference on Society, Space & Environment 2009 “Towards Sustainable Heritage & Future”, 2-3 June 2009, School of Humanities, Universiti Sains Malaysia, Penang. In CD Rom.
- 91 Noor Asyhikin Binti Abdul Razak and Chan, N.W. (2009) *Level of Awareness, Commitment and Perception of Undergraduate Students in Public Universities in Malaysia towards the Environment; Preliminary Findings*. Proceedings of the 2nd National Conference on Society, Space & Environment 2009 “Towards Sustainable Heritage & Future”, 2-3 June 2009, School of Humanities, Universiti Sains Malaysia, Penang. In CD Rom.
- 92 Tan, C.H., Norizan Md Nor and Chan, N.W. (2009) *Pelancongan Bandar Georgetown, Pulau Pinang: Satu Kajian Persepsi Residen Dan Pelancong Tentang Industri Pelancongan Bandar*. Proceedings of the 2nd National Conference on Society, Space & Environment 2008 “Towards Sustainable Heritage & Future”, 2-3 June 2009, School of Humanities, Universiti Sains Malaysia, Penang. In CD Rom.
- 93 Chan, N.W. (2009) Issues and Challenges of Managing Natural Heritage in Penang National Park, Malaysia. In Badaruddin Mohamed and Morshidi Sirat (Editors) *Proceedings of 2nd National Symposium on Tourism Research – Theories & Applications*. Penang: Cluster of Tourism Research (TRC) Social Transformation Platform, Universiti Sains Malaysia, Penang, 111-123.
- 94 Ang, S.K. and Chan, N.W. (2009) *The Potentials and Challenges of Salt Lick Tourism*. In Badaruddin Mohamed and Morshidi Sirat (Editors) *Proceedings of 2nd National Symposium on Tourism Research – Theories & Applications*. Penang: Cluster of Tourism Research (TRC) Social Transformation Platform, Universiti Sains Malaysia, Penang, 55-66.
- 95 Chan, N.W. (2009) *Agua turbulentas*. In *Dialogos Del Agua*, Zaragoza: Herald De Aaragon, p.37.
- 96 Chan, N.W. (2010) *The Forgotten Heritages of Penang, Malaysia: Potentials, Threats and Challenges for Conservation*. In Crispin S., Dunn A., Fishwick S., Franklin A., Hanson D., Reiser D., Shipway R., Wells M. and Baxter C. (Editors) *Proceedings of the 20th Annual Conference*, Council for Australian University, Tourism and Hospitality Education

- (CAUTHE) "Challenging the Limits." Hobart: © CAUTHE 2010, ISBN: 978 1 86295 560 8, In CD Rom.
- 97 Chan, N.W. (2010) *Kesan bencana banjir di Malaysia:keperluan perancangan pra-bencana dan pengurusan proaktif*. Proceedings of 2nd National Conference on Environment & Health 2010, 17 -18 March 2010, Kota Bharu. Kota Bharu: School of Health Sciences, Universiti Sains Malaysia: 197-204.
 - 98 Chan, N.W. (2010) *Unsustainable Development and Environmental Change in Cameron Highlands*. In Teng T.T., Yusri Yusup and Fera Fizani Ahmad Fizri (Editors) Proceedings of The 2nd International Conference on Environmental Research & Technology "Research and Innovation towards Environmental Sustainability, 2-4 June 2010, Penang, Malaysia. Penang: School of Industrial Technology, Universiti Sains Malaysia: 546-552.
 - 99 Chan, N.W. (2010) *Impacts of Human Habitat Development on the Environment – Challenges and the Way Forward*. Keynote Paper in Jamaluddin Md. Jahi, Muhammad Rizal Razman, Azahan Awang, Kadaruddin Aiyub and Kadar Ariffin (Editors) Human Habitat Transformation and Environmental Change, Proceedings of The 2nd International Conference on Human Habitat and Environment, 15-16 June 2010, Putra Nilai, Negeri Sembilan. Bangi: Institute of the Malay World and Civilisation (ATMA), UKM and Environmental Management Society (EMS) Malaysia, 3-24.
 - 100 Hong, C.W. and Chan, N.W. (2010) *Evaluation of Visitors' Environmental Perception and Willingness to pay for Conservation of Penang National Park Components*. In Jamaluddin Md. Jahi, Muhammad Rizal Razman, Azahan Awang, Kadaruddin Aiyub and Kadar Ariffin (Editors) Human Habitat Transformation and Environmental Change, Proceedings of The 2nd International Conference on Human Habitat and Environment, 15-16 June 2010, Putra Nilai, Negeri Sembilan. Bangi: Institute of the Malay World and Civilisation (ATMA), UKM and Environmental Management Society (EMS) Malaysia, 369-376.
 - 101 Chan, N.W. (2010) Addressing Flood Hazards via Environmental Humanities in Malaysia. In Deni Efizon, Jamaluddin Md Jahi, Muhammad Rizal Razman, Sofyan Husein Siregar, Dewita Bukhari, Norfrizal, Desmelati and Asmika Harnalin Simarmata (Editors) *Proceedings of the International Seminar Ecology, Human Habitat and Environmental Change*. Pekanbaru: Fakultas Perikanan dan Ilmu Kelautan Universitas Riau and Institute Alam dan tamadun Melayu (ATMA) Universiti Kebangsaan Malaysia, 46-57.
 - 102 Hong, C.W. and Chan, N.W. (2010) SWOT and TOWS Alanalysis of Penang national park for Strategic Ecotourism Management. In Efizon, D., Jamaluddin Md Jahi, Muhammad Rizal Razman, Sofyan Husein Siregar, Dewita Bukhari, Norfrizal, Desmelati and Asmika Harnalin Simarmata (Editors) *Proceedings of the International Seminar Ecology, Human Habitat and Environmental Change*. Pekanbaru: Fakultas Perikanan dan Ilmu Kelautan Universitas Riau and Institute Alam dan tamadun Melayu (ATMA) Universiti Kebangsaan Malaysia, 401-412.
 - 103 Chan, N.W. (2010) Challenges of Conservation of natural heritage for Ecotourism in Kinabalu Park, Malaysia. Proceedings of the 11th International Joint World Cultural Tourism Conference "Cultural Tourism: Beyond the Leap", 12-14 November 2010, Hangzhou, China. Hangzhou: World Cultural Tourism Association, 585-796 (In CD Rom).
 - 104 Chan, N.W. (2010) The Environmental Humanities Initiative in the School of Humanities, Universiti Sains Malaysia. In N.W. Chan (Editor) *Proceedings of the First National Seminar on Environmental Humanities*. Penang: Social Transformation Platform, Universiti Sains Malaysia, 10-19.
 - 105 Ang, S.C. and Chan, N.W. (2010) Roadkills: An Indicator of More Development but Less Humanity. In N.W. Chan (Editor) *Proceedings of the First National Seminar on Environmental Humanities*. Penang: Social Transformation Platform, Universiti Sains Malaysia, 38-45.
 - 106 Chan, N.W. (2010) Changing Water Behaviour and Human Behaviour: Keys to Attaining Sustainable Water Resources Management. In N.W. Chan (Editor) *Proceedings of the First*

- National Seminar on Environmental Humanities*. Penang: Social Transformation Platform, Universiti Sains Malaysia, 93.
- 107 Hong, C.W. and Chan, N.W. (2010) Influence of Stakeholders on the Environmental Management of the Penang National Park. In Chan N.W. (Editor) *Proceedings of the First National Seminar on Environmental Humanities*. Penang: Social Transformation Platform, Universiti Sains Malaysia, 152.
- 108 Chuah, C.Y. and Chan, N.W. (2010) Issues and Challenges of Environmental Education in Primary Schools in Penang: Some Preliminary Results. In Chan N.W. (Editor) *Proceedings of the First National Seminar on Environmental Humanities*. Penang: Social Transformation Platform, Universiti Sains Malaysia, 152-159.
- 109 Ong, K.S. and Chan, N.W. (2010) Plastic Bag: Human's Invention, Problem and Solution Through Policy Implementation. In Chan N.W. (Editor) *Proceedings of the First National Seminar on Environmental Humanities*. Penang: Social Transformation Platform, Universiti Sains Malaysia, 160-171.
- 110 Chan, N.W. (2011) Tasik Harapan: Multi-Purpose Use as Retention Pond for Flood Control, Recreation, Research and Community Participation. In *Proceedings of The 3rd National Conference on Geography and Environment, Department of Geography and Environment, Universiti Pendidikan Sultan Idris (UPSI)* (In CD Rom).
- 111 Chan, N.W. (2011) "Water Efficiency Management: for Business and Domestic Sectors towards a Green Economy". Proceedings of the Seminar on "Narmada-The Lifeline", 22 March 2011, Gandinagar (Gujarat), India (In CD Rom).
- 112 Sharifah Meryam binti Shareh Musa dan Chan, N.W. (2011) Pengurusan Banjir di Malaysia: Pendekatan Baru Berfokus Manual Saliran Mesra Alam (MSMA). In Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Deni Efizon, Bustari Hasan, Kadaruddin Aiyub, Azahan Awang dan Syarifah Zarina Syed Zakaria (Editors) *Perubahan Persekitaran Di Alam Melayu: Prosiding Seminar Antarabangsa Ke-4 Ekologi, Habitata Manusia & Perubahan Persekitaran di Alam Melayu, Universiti Kebangsaan Malaysia, 23-24 May 2011, Universiti Kebangsaan Malaysia*, 896-904.
- 113 Chan, N.W. (2011) Challenges of Conserving Neglected Heritage in Penang, Malaysia. In Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Deni Efizon, Bustari Hasan, Kadaruddin Aiyub, Azahan Awang dan Syarifah Zarina Syed Zakaria (Editors) *Perubahan Persekitaran Di Alam Melayu: Prosiding Seminar Antarabangsa Ke-4 Ekologi, Habitata Manusia & Perubahan Persekitaran di Alam Melayu, Universiti Kebangsaan Malaysia, 23-24 May 2011, Universiti Kebangsaan Malaysia*, 917-927.
- 114 Chan, N.W. (2011) Addressing the Fundamental Human aspects of Water Security Via Environmental Humanities. In *Proceedings of the International Conference on Humanities 2011 "Empowering the Humanities in Upholding Heritage, Knowledge, People and Nature, 14-16 June 2011 Penang, Malaysia. Penang, School of Humanities, Universiti Sains Malaysia*, 1-12 (In CD Rom).
- 115 Chan, N.W., Ang, S.C., Hong, C.W., Chuah, C.Y. and Ong, K.S. (2011) The Role of Water Watch Penang in Protecting Water Resources in Malaysia. Proceedings of the National Conference on Society, Space and Environment (MATRA 2011), 16-17 November 2011, Penang, 154-165 (In CD Rom).
- 116 Ang, S.C., Chan, N.W. and Jabil Mapjabil (2011) Salt Licks and Adventurous Tourists: A Recipe for Sustainable Ecotourism. Proceedings of the National Conference on Society, Space and Environment (MATRA 2011), 16-17 November 2011, Penang, 29-47 (In CD Rom).

- 117 Muhammad Riza Adha Damanik and Chan, N.W. (2011) Environmental Issues Caused by Brackish-Water Shrimp Farming Activities on the Coast of Lampung, Indonesia: The Case of Responsible Shrimp Farming. Proceedings Persidangan Kebangsaan Masyarakat, Ruang dan Alam Sekitar (MATRA 2011), 16-17 November 2011, Pulau Pinang, 121-129 (In CD Rom).
- 118 Nur Aili Hanim Bt Hanafiah and Chan, N.W. (2011) The Occurrence of Urban Heat Island and its Effect on Human Thermal Discomfort in Penang Island. Proceedings Persidangan Kebangsaan Masyarakat, Ruang dan Alam Sekitar (MATRA 2011), 16-17 November 2011, Pulau Pinang, 183-196 (In CD Rom).
- 119 Sharifah Meryam Shareh Musa, Chan, N.W. and Haryati Shafii (2011) Amalan Semasa dan Pendekatan Baru dalam Pengurusan Banjir di Malaysia. Proceedings Persidangan Kebangsaan Masyarakat, Ruang dan Alam Sekitar (MATRA 2011), 16-17 November 2011, Pulau Pinang, 281-296 (In CD Rom).
- 120 Jabil Mapjabil, Arsad Alwi and Chan, N.W. (2011) Persepsi Komuniti Tempatan terhadap Pelancongan Warisan di Bahagian Utara Semennanjung Malaysia. Proceedings Persidangan Kebangsaan Masyarakat, Ruang dan Alam Sekitar (MATRA 2011), 16-17 November 2011, Pulau Pinang, 102-111 (In CD Rom).
- 121 Chan, N.W. (2012) "Smart Partnerships in Water Efficiency Management Towards a Green Economy". In Proceedings of the 2nd General Convention International Academic Consortium for Sustainable Cities (IACSC 2011), 10-11 September 2011, Universiti Sains Malaysia, Penang: 79-95.
- 122 Chan, N.W. (2012) Awareness of environmental issues and reality in Malaysia. Proceedings of the International Conference on Environment and Health, 6-7 June 2012, Penang, Malaysia, 1-14 (In CD Rom).
- 123 Chan, N.W. and Azreen Rozainee Abdullah (2012) Potentials, Threats and Challenges to Ecotourism in Belum Temengor Forest Complex (BTFC), Malaysia. Proceedings Regional Symposium on Rural Tourism: Scaling up Community-Based Ecotourism, Royal University of Phnom Penh, CAMBODIA, 18th-19th MAY 2012, 1-10 (In CD Rom).
- 124 Ang, S.C. and Chan, N.W. (2012) Rainwater harvesting: Concept and Case Study in School of Humanities, Universiti Sains Malaysia. In Sohaimie Abdul Aziz and Nawal Fadhil Abbas (Editors) Proceedings of the Inaugural Postgraduate Research Seminar. Penang: School of Humanities, Universiti Sains Malaysia and Postgraduate Student Club, School of Humanities, Universiti Sains Malaysia, 117-127.
- 125 Ranjan Roy and Chan, N.W. (2012) Determining the Factors of Rice Farming Sustainability in Bangladesh: Application of the Delphi technique. In Sohaimie Abdul Aziz and Nawal Fadhil Abbas (Editors) Proceedings of the Inaugural Postgraduate Research Seminar. Penang: School of Humanities, Universiti Sains Malaysia and Postgraduate Student Club, School of Humanities, Universiti Sains Malaysia, 128-143.
- 126 Hong, C.W. and Chan, N.W. (2012) The Need for Decentralisation Through Stakeholders' Participation for Sustainable Penang National Park Management. In Jamaluddin Md Jahi, Muhammad Rizal Razman, Kadir Ariffin, Kadaruddin Aiyub and Azahan Awang (Editors) Human Habitat and Environmental Transformation – Proceedings of the 3rd International Conference on Human Habitat and Environment in the Malay World. Bangi: Institute of the Malay World and Civilisation and Environmental Management Society (EMS) Malaysia, 397-408.
- 127 Chan, N.W. (2012) Transforming School of Humanities Universiti Sains Malaysia into an Example of a Best Management Practice in Water Demand Management. *International Proceedings of Chemical, Biological & Environmental Engineering*. ISBN 978-981-07-4883-8. 161-165.

- 128 Azreen Rozainee Abdullah, Chan Ngai Weng and Badaruddin Mohamed (2013) Potentials and Challenges of Involving Indigenous Communities in Ecotourism in Belum-Temenggor Forest Complex, Perak, Malaysia. In Badaruddin Mohamed and Azizi Bahaudin (Editors) Proceedings of International Conference on Tourism Development: Building the Future of Tourism. Penang: Sustainable Tourism Research Cluster, 332-344. ISBN:978-967-394-133-9.
- 129 Phang, W.L. and Chan, N.W. (2013) A Study of Consumers' Awareness, Concern and Willingness to Pay in Water Issues in Malaysia. Proceedings of *Persidangan Kebangsaan Geografi & Alam Sekitar Kali Ke 4 - Geografi & Alam Sekitar Dalam Pembangunan dan Transformasi Negara*. Universiti Pendidikan Sultan Idris. ISBN 978-983-2063-68-3. 181-189.
- 130 Roy, R. and Chan, N.W. (2013) Aus Rice Farming in Bangladesh: A Review of Production Trends and Assessment of Sustainability. Proceedings of *Persidangan Kebangsaan Geografi & Alam Sekitar Kali Ke 4 - Geografi & Alam Sekitar Dalam Pembangunan dan Transformasi Negara*. Universiti Pendidikan Sultan Idris. ISBN 978-983-2063-68-3. 363-370.
- 131 Lai, C.H., Chan, N.W. and Nor Azazi Zakaria (2013) Non- Revenue Water Management in Malaysia: A Review of Selected Water Service Providers in Malaysia. Proceedings of *Persidangan Kebangsaan Geografi & Alam Sekitar Kali Ke 4 - Geografi & Alam Sekitar Dalam Pembangunan dan Transformasi Negara*. Universiti Pendidikan Sultan Idris. ISBN 978-983-2063-68-3. 371-376.
- 132 Ang Sek Chuan, Chan Ngai Weng, Mashhor Mansor, Narimah Samat and Lai Sai Hin (2013) Cabaran Dalam Kemampunan Pengurusan Sungai di Malaysia. Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei 2013*. Bangi: Institut Alam dan Tamadun Melayu (ATMa), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 96-106 (ISBN 978-983-2457-63-3).
- 133 Chan Ngai Weng, Asyirah Abdul Rahim, Narimah Samat & Jamaluddin Md Jahi (2013) Masalah Pembangunan Tanah Tinggi dan Pengurusannya di Malaysia. Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei 2013*. Bangi: Institut Alam dan Tamadun Melayu (ATMa), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 1-20 (ISBN 978-983-2457-63-3).
- 134 Nur Aili Hanim Hanafiah dan Chan Ngai Weng (2013) Kajian Keprihatinan Awam Terhadap Pulau Haba Bandar dan Amalan Mereka Terhadap Pengurusan Tekanan Haba di Pulau Pinang. Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei 2013*. Bangi: Institut Alam dan Tamadun Melayu (ATMa), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 204-208 (ISBN 978-983-2457-63-3).
- 135 Hong Chern Wern, Chan Ngai Weng dan Badaruddin Mohamed (2013) Ancaman dan Cabaran Dalam Pembangunan Lestari Taman Negara Pulau Pinang. Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei 2013*. Bangi: Institut Alam dan Tamadun Melayu (ATMa), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 15-27 (ISBN 978-983-2457-63-3).
- 136 Lai Chee Hui, Chan Ngai Weng, Suhaimi Abdul-Talib & Jamaluddin Md Jahi (2013) Ke Arah Pengurusan Air Mampan: Kajian Awal Terhadap Cabaran Untuk Mengurangkan Air Tidak Berhasil di Malaysia. Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei*

2013. Bangi: Institut Alam dan Tamadun Melayu (ATMa), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 107-116 (ISBN 978-983-2457-63-3).
- 137 Phang Wai Ling, Chan Ngai Weng, Aminuddin Abd Ghani, Nor Azazi Zakaria, Jamaluddin Md Jahi & Mazlin Mokhtar (2013) Tahap Kesedaran dan Amalan Jimat Air di Kalangan Pengguna Domestik di Pulau Pinang. Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei 2013*. Bangi: Institut Alam dan Tamadun Melayu (ATMa), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 126-135 (ISBN 978-983-2457-63-3).
- 138 Sato, T., Hong, C.W., Ao, M., Badaruddin Mohamed & Chan, N.W. (2013) Kajian Perbandingan Isu dan Cabaran Ekopelancongan di Taman Negara Pulau Pinang dan Taman Kinabalu, Malaysia. Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei 2013*. Bangi: Institut Alam dan Tamadun Melayu (ATMa), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 588-596 (ISBN 978-983-2457-63-3).
- 139 Syarifah Meryam Shareh Musa, Chan Ngai Weng, Ku Ruhana Ku Mahamud & Mohd Zaini Abd. Karim (2013) Faktor Polisi dan Tindakan Pengurusan Banjir Dalam Mempengaruhi Keberkesanan Pelaksanaan Manual Saliran Mesra Alam (MSMA). Dalam Jamaluddin Md. Jahi, Muhammad Rizal Razman, Kadir Arifin, Zuliskandar Ramli, Abdullah Sulaiman dan Emrizal (Penyunting) *Prosiding Seminar Serantau Ke-2 Pengurusan Persekitaran di Alam Melayu, Pekanbaru, Provinsi Riau, 6-7 Mei 2013*. Bangi: Institut Alam dan Tamadun Melayu (ATMA), Universitas Islam Riau dan Persatuan Pengurusan Persekitaran Malaysia, 447-459 (ISBN 978-983-2457-63-3).
- 140 Lai Chee Hui, Phang Wai Leng & Chan Ngai Weng (2013) A Study of Non- Revenue Water Management in Penang as an Example of Good Water Governance. In Roosfa Hashim and Abdul Ghafar Ismail (Editors) *Penyelidikan Pemacu Pembangunan Negara: Prosiding Seminar Hasil Penyelidikan Sektor Pengajian Tinggi Ke-3 2013 Sains Sosial dan Kemanusiaan Jilid 2*. Putrajaya: Kementerian Pendidikan Malaysia, 1007-1015 (ISBN 978-967-0334-79-0).
- 141 Phang Wai Leng, Chan Ngai Weng, Lai Chee Hui & Jamaluddin Md Jahi (2013) Tingkah Laku Pengguna Air Domestik pada Penggunaan Air Mengikut Kawasan. In Roosfa Hashim and Abdul Ghafar Ismail (Editors) *Penyelidikan Pemacu Pembangunan Negara: Prosiding Seminar Hasil Penyelidikan Sektor Pengajian Tinggi Ke-3 2013 Sains Sosial dan Kemanusiaan Jilid 2*. Putrajaya: Kementerian Pendidikan Malaysia, 1239-1247 (ISBN 978-967-0334-79-0).
- 142 Zakaria, N.A., Ab. Ghani, A., Abdul Talib, S., Chan, N.W. & Mohamed Desa, M.N (2013) Urban Water Cycle Processes, Management, and Societal Interactions: Crossing From Crisis To Sustainability. *World Environmental and Water Resources Congress 2013*: 1240-1246. DOI: 10.1061/9780784412947.122.
- 143 Ang Sek Chuan & Chan Ngai Weng (2013) The business of littering: a case study on waterways in Malaysia. Proceedings IACSC 2012 The 3rd International Academic Consortium For Sustainable Cities Symposium, 8 September 2012 Thailand. Bangkok: Thammasat University, p152.
- 144 Chan Ngai Weng (2013) Managing urban flood hazards in Malaysia: emerging issues and challenges. Proceedings IACSC 2012 The 3rd International Academic Consortium For Sustainable Cities Symposium, 8 September 2012 Thailand. Bangkok: Thammasat University, p154-159.
- 145 Chern-Wern HONG, Masazumi AO and Ngai-Weng CHAN (2013) The role and challenges of Penang National Park in the sustainable development of Penang. Proceedings IACSC 2012

- The 3rd International Academic Consortium For Sustainable Cities Symposium, 8 September 2012 Thailand. Bangkok: Thammasat University, p173-179.
- 146 Phang Wai Leng, Chan Ngai Weng & Lariyah Mohd Sidek (2013) Pengurusan penawaran ir dan pengurusan permintaan air di Malaysia: peranan kerajaan, organisasi bukan kerajaan dan orang awam. Prosiding Seminar Antarabangsa Ke-6 Ekologi, Habitat Manusia & Perubahan Persekitaran di Alam Melayu. ISBN 978-983-2457-66-4. © Institut Alam dan Tamadun Melayu (ATMA), UKM, ISBN 978-983-2457-66-4, 220-226.
- 147 Lai Chee Hui, Chan Ngai Weng, Nor Azazi Zakaria & Jamaluddin Md Jahi (2013) Peranan orang awam dalam pengurangan kehilangan air sebenar dari sistem pembekalan air di Pulau Pinang. Prosiding Seminar Antarabangsa Ke-6 Ekologi, Habitat Manusia & Perubahan Persekitaran di Alam Melayu. ISBN 978-983-2457-66-4. © Institut Alam dan Tamadun Melayu (ATMA), UKM, ISBN 978-983-2457-66-4, 227-234.
- 148 Chan NW, Lai CH, Phang WL, Ang SC, Ranjan Roy, Sharifah Meryam & Hong CW (2013) Pendekatan Libatsama dalam Pengurusan Air di Malaysia. In Wan Mohd Muhiyuddin Wan Ibrahim, Zullyadini A. Rahaman, Norizan Md. Nor, Zikri Muhammad, Jabil Mapjabil and Ruslan Rainis (Editors) Proceedings of the National Conference on Society, Space & Environment (MATRA 2013). Penang: Geography Section USM, 304-320.
- 149 Mohammad Ghazi Hj. Ismail, Chan N W and Narimah Samat (2013) Kajian Efisiensi Pengurusan Air Tidak Berhasil (NRW) Dalam Meningkatkan Sekuriti Bekalan Air di Tendong, Jajahan pasir Mas, Kelantan, Malaysia. In Wan Mohd Muhiyuddin Wan Ibrahim, Zullyadini A. Rahaman, Norizan Md. Nor, Zikri Muhammad, Jabil Mapjabil and Ruslan Rainis (Editors) Proceedings of the National Conference on Society, Space & Environment (MATRA 2013). Penang: Geography Section USM, 321-330.
- 150 Lai C H and Chan N W (2013) Non-Revenue Water Reduction as a Tool of Water Demand and Supply Management: A Case Study in Penang State. In Wan Mohd Muhiyuddin Wan Ibrahim, Zullyadini A. Rahaman, Norizan Md. Nor, Zikri Muhammad, Jabil Mapjabil and Ruslan Rainis (Editors) Proceedings of the National Conference on Society, Space & Environment (MATRA 2013). Penang: Geography Section USM, 331-336.
- 151 Phang W L, Chan N W & Mazlin Mokhtar (2013) Domestic Water Consumers' Perception and Assessment of Penang Water Supply Corporation. In Wan Mohd Muhiyuddin Wan Ibrahim, Zullyadini A. Rahaman, Norizan Md. Nor, Zikri Muhammad, Jabil Mapjabil and Ruslan Rainis (Editors) Proceedings of the National Conference on Society, Space & Environment (MATRA 2013). Penang: Geography Section USM, 337-343.
- 152 Ang S C, Chan N W & Narimah Samat (2013) Management of Upper Juru River Using Biological Water Quality Index. In Wan Mohd Muhiyuddin Wan Ibrahim, Zullyadini A. Rahaman, Norizan Md. Nor, Zikri Muhammad, Jabil Mapjabil and Ruslan Rainis (Editors) Proceedings of the National Conference on Society, Space & Environment (MATRA 2013). Penang: Geography Section USM, 368-375.
- 153 Sharifah Meryam Shareh Musa, Chan N W and Wan Ruslan Wan Ismail (2013) Kejadian Banjir di Daerah Batu Pahat, Johor dari Faktor Fizikal dan Pembangunan Guna Tanah. In Wan Mohd Muhiyuddin Wan Ibrahim, Zullyadini A. Rahaman, Norizan Md. Nor, Zikri Muhammad, Jabil Mapjabil and Ruslan Rainis (Editors) Proceedings of the National Conference on Society, Space & Environment (MATRA 2013). Penang: Geography Section USM, 395-409.
- 154 Chan N W and Badaruddin Mohamed (2013) Tourism Development and the Environment in Pangkor Island: A Study on Tourists' Perception. In Proceedings of the 3rd Regional Conference on Tourism Research. Penang: Sustainable Tourism Research Cluster (STRC) Universiti Sains Malaysia, 1-9 (In CD Rom).
- 155 Chan N W (2013) Green Technology in the Water Sector as an Emerging Industry in Malaysia. Abstract published in Proceedings of the BIT's 1st International Conference on Emerging Industries. Shenzhen: BIT Congress Inc.

- 156 Lai Chee Hui, Chan Ngai Weng and Phang Wai Ling (2013) Learning from the Penang River Education Programme: A Case Study of University Students' Involvement in Community Water Management. Abstract published in Book of Abstracts, Universiti Community Engagement Conference 2013, Padang. Jointly organised by BJIM USM, APUCEN and Universiti Andalas, 46.
- 157 Ranjan Roy and Chan Ngai Weng (2014) Understanding governmental, institutional and political context of water resource management. In Proceedings of the 4th International Conference on Human Habitat & Environment 2014, 5-6 May 2014, Universiti Kebangsaan Malaysia, Bangi. In CD Rom.
- 158 Chan Ngai Weng, Badaruddin Mohamed and Christopher J Barrow (2014) Challenges in Managing Sustainable Development in Cameron Highlands, Malaysia. Proceedings of the 3rd International Conference on Economics and Social Sciences, ICESS-2014, 21-22 June 2014, Durban University of Technology, Durban, 310-319 [ISSN: 2307-7549].
- 159 Ang Sek Chuan, Chan Ngai Weng and Narimah Samat (2014) Is Cutting Down Wayside Trees The Correct Strategy in Reducing Mega Storm Damage in Penang, Malaysia? In Proceedings IACSC 2013, The 4th International Academic Consortium for Sustainable Cities Consortium. September 6-7 2013, Manila. University of Philippines, Manila, 232-242. ISSN 2362-9010.
- 160 Chan Ngai Weng (2014) University Sains Malaysia's Sustainability Agenda. In Proceedings IACSC 2013, The 4th International Academic Consortium for Sustainable Cities Consortium. September 6-7 2013, Manila. University of Philippines, Manila, 243. ISSN 2362-9010.
- 161 Hong C.W., Sato T., Ao M., Badaruddin Mohamed and Chan N.W. (2014) A Comparison of Penang National Park, Kinabalu Park and Kruger National Park. In Proceedings IACSC 2013, The 4th International Academic Consortium for Sustainable Cities Consortium. September 6-7 2013, Manila. University of Philippines, Manila, 258-276. ISSN 2362-9010.
- 162 Phang W.L., Chan N.W. and Lai C.H. (2014) The Role of Water Service Providers in Reducing Non-Revenue Water in Malaysia. In Proceedings IACSC 2013, The 4th International Academic Consortium for Sustainable Cities Consortium. September 6-7 2013, Manila. University of Philippines, Manila, 218-229. ISSN 2362-9010.
- 163 Phang W.L., Chan N.W. and Lai C.H. (2014) Potential of Rainwater as Alternative Source of Water in Penang State. In Proceedings IACSC 2013, The 4th International Academic Consortium for Sustainable Cities Consortium. September 6-7 2013, Manila. University of Philippines, Manila, 208-217. ISSN 2362-9010.
- 164 Chan Ngai Weng (2014) The N-Park Water Saving Project: A Participatory Approach in Urban Water Management. In Proceedings of 13th International Conference on Urban Drainage, Sarawak, Malaysia, 7-12 September 2014, Kuching: Universiti Tenaga Nasional (UNITEN), 1-10 (In CD Rom).
- 165 Lai C.H., Chan N.W., Phang W.L. and Nor Azazi Zakaria (2014) Challenges in Non-Revenue Water Management in Perlis State, Malaysia. In Proceedings of 13th International Conference on Urban Drainage, Sarawak, Malaysia, 7-12 September 2014, Kuching: Universiti Tenaga Nasional (UNITEN), 1-10 (In CD Rom).
- 166 Phang W.L., Lai C.H. and Chan N.W. (2014) Domestic Water Saving Practices as a Water Demand Management Strategy in Penang, Malaysia. In Proceedings of 13th International Conference on Urban Drainage, Sarawak, Malaysia, 7-12 September 2014, Kuching: Universiti Tenaga Nasional (UNITEN), 1-10 (In CD Rom).
- 167 Chan Ngai Weng, Azreen Rozainee Abdullah and Badaruddin Mohamed (2014) Balancing Ecotourism Development and Conservation of Natural Heritage in Belum Temenggong Forest Complex (BTFC). Proceedings of the 15th International Joint World Cultural Tourism Conference & 1st World Tourism Conference, 22-24 November 2014, Hanyang Women's University, Seoul. In CD Rom.
- 168 Lai Chee Hui, Chan Ngai Weng and Seow Ta Wee (2015) A Study on the Contributions of Social Capital in Flood Disaster Recovery after the December 2014 Major Flood in Kelantan

- State, Malaysia. Proceedings Transformasi Sosial 2015. Fakulti Kemanusiaan, Seni & Warisan Universiti Malaysia Sabah, 9-17.
- 169 Sim Lay Mei and Chan Ngai Weng (2015) Governance and stakeholders participation in integrating flood risk management in pahang river basin. Proceedings Transformasi Sosial 2015. Fakulti Kemanusiaan, Seni & Warisan Universiti Malaysia Sabah, 1-8.
- 170 Mohammad Ghazi Hj Ismail, Chan Ngai Weng, NorAzazi Zakaria and Aminuddin Ab Ghani (2015) A review of standard operating procedures (sop) used in flood relief operations during the December 2014 flood in Pahang. Proceedings Transformasi Sosial 2015. Fakulti Kemanusiaan, Seni & Warisan Universiti Malaysia Sabah, 18-27.
- 171 Norsyuhada Anua and Chan Ngai Weng (2015) Bencana banjir: kajian kes terhadap bantuan yang diperlukan dan masalah yang dihadapi oleh mangsa banjir di Kelantan, Malaysia. Proceedings Transformasi Sosial 2015. Fakulti Kemanusiaan, Seni & Warisan Universiti Malaysia Sabah, 28-35.
- 172 Ngai Weng Chan, Narimah Samat, Lai Kuan Lee and Aminuddin Ab Ghani (2015) Role of Citizen Science in Responding to Flood Disasters: A Case Study from Malaysia. Proceedings of the International Conference on "Towards Urban water Security in Southeast Asia: managing the Risks of Extreme Events", Phnom Penh, Asian Institute of Technology, 227-238.
- 173 Chan Ngai Weng (2015) The Role of Social Capital and Community Resilience in Facing Flood Disasters in Malaysia. Proceedings of International Symposium of International Academic Consortium of Sustainable Cities, Yokohama City University, 13.
- 174 Hong Chern Wern and Chan Ngai Weng (2015) The Impacts of Excessive Water Consumption: A Preliminary Case Study of Penang. Proceedings of International Symposium of International Academic Consortium of Sustainable Cities, Yokohama City University, 12.
- 175 Sim Lay Mei and Chan Ngai Weng (2015) Stakeholders' Participation in Sustainable Water Resource Management: A Case Study of Muda River Basin. Proceedings of International Symposium of International Academic Consortium of Sustainable Cities, Yokohama City University, 11.
- 176 Lai Chee Hui and Chan Ngai Weng (2015) Reducing Non-Revenue Water for a Sustainable City: A Case Study of Penang, Malaysia. Proceedings of International Symposium of International Academic Consortium of Sustainable Cities, Yokohama City University, 10.
- 177 Mohammad Ghazi Hj Ismail, Chan Ngai Weng, Nor Azazi Zakaria and Aminuddin Ab Ghani (2015) Flood Loss Suffered by Pahang Folks During the December 2014 Major Floods. Proceedings of Geografi & Alam Sekitar Kali Ke-5, Universiti Pendidikan Sultan Idris, Tanjung Malim, 601-607 (ISBN 978-967-0924-10-6).
- 178 Norsuhada Bt Anua and Chan Ngai Weng (2015) Adaptasi dan resiliens komuniti terhadap banjir di Kelantan, Malaysia. Proceedings of Geografi & Alam Sekitar Kali Ke-5, Universiti Pendidikan Sultan Idris, Tanjung Malim, 739-747 (ISBN 978-967-0924-10-6).
- 179 Phang Wai Leng and Chan Ngai Weng (2015) Persepsi Mangsa Banjir Tentang Keperluan Jenis Bantuan Banjir dan Bantuan Banjir Sebenar Yang Diberikan Oleh Sukarelawan di Kota Bharu Semasa Banjir Serius Disember 2014. Proceedings of Geografi & Alam Sekitar Kali Ke-5, Universiti Pendidikan Sultan Idris, Tanjung Malim, 975-984 (ISBN 978-967-0924-10-6).
- 180 Lai Chee Hui and Chan Ngai Weng (2015) A Preliminary Study of the Role of Social Capital in Flood Recovery in Kelantan State. Proceedings of Geografi & Alam Sekitar Kali Ke-5, Universiti Pendidikan Sultan Idris, Tanjung Malim, 568-573 (ISBN 978-967-0924-10-6).
- 181 Chan Ngai Weng (2015) Challenges in flood disasters management in Malaysia. Proceedings of the World Water Congress XV Edinburgh 25-29 May 2015, International Water Resources Association, 1-9.
- 182 Phang Wai Leng and Chan Ngai Weng (2016) A Comparative Study of Spatial Variation Between the States of Peninsular Malaysia in Terms of Water Supply Characteristics and Consumer's Perception. In Narimah Samat, Saidatulakmal Mohd, Khoo Suet Leng, Asyirah

- Abdul Rahim and Suriati Ghazali (Editors) Proceedings of International Conference on Development and Socio Spatial Inequalities 2015 Bridging Socio-Spatial Inequalities through Inclusive Development 19 – 20 August 2015 Bayview Beach Resort, Penang, Malaysia. Penang: School of Humanities, Universiti Sains Malaysia, 202-209 (eISBN 978-967-11473-4-4).
- 183 Lai Chee Hui and Chan Ngai Weng (2016) Spatial Inequalities in Malaysia's Non-Revenue Water Rates: Issues, Challenges and Management Strategies. In Narimah Samat, Saidatulakmal Mohd, Khoo Suet Leng, Asyirah Abdul Rahim and Suriati Ghazali (Editors) Proceedings of International Conference on Development and Socio Spatial Inequalities 2015 Bridging Socio-Spatial Inequalities through Inclusive Development 19 – 20 August 2015 Bayview Beach Resort, Penang, Malaysia. Penang: School of Humanities, Universiti Sains Malaysia, 210-215 (eISBN 978-967-11473-4-4)
- 184 Mohd Firdaus Habib Mohd and Chan Ngai Weng (2016) Potentials and Challenges in Promoting Penang Hill as a Sustainable Ecotourism Destination. In Badaruddin Mohamed (Editor) Proceedings of National Innovation and Invention Competition Exhibition, 22 – 24 Mac 2016 – Politeknik Sultan Abdul Halim Mu'adzam Shah (POLIMAS), Kedah Malaysia, 56 - 68.
- 185 Mohd Firdaus Habib Mohd and Chan Ngai Weng (2016) Tourists Satisfaction and Survival of Tourism Destination, a Case Study of Penang Hill. In Mohd Fauzi Sukiman, Badaruddin Mohamed (Editors) Proceedings of National Innovation and Invention Competition Exhibition, 22 – 24 Mac 2016 – Politeknik Sultan Abdul Halim Mu'adzam Shah (POLIMAS), Kedah Malaysia, 68- 80.
- 186 Chan Ngai Weng, Hong Chern Wern, Lai Chee Hui, Lim Han Khim and Tang Soke Kwan (2016) The role of the university in community engagement for environmental and water education: the example of Universiti Sains Malaysia. In Proceedings of the 1st International Conference on Society, Space & Environment, Co-organised by by School of Social Sciences, School of Humanities & School of Housing, Building and Planning Universiti, Sains Malaysia, 11800, Penang, Malaysia, 2-4 November 2016, Bali. In CD: 1-8.
- 187 Chan Ngai Weng, Ku Ruhana Bt Ku Mahamud and Mohd Zaini Abd Karim (2016) Assessing Different Types of Flood Losses in Kelantan State in Malaysia during the December 2014 Flood. In Proceedings of the 1st International Conference on Society, Space & Environment, Co-organised by by School of Social Sciences, School of Humanities & School of Housing, Building and Planning Universiti, Sains Malaysia, 11800, Penang, Malaysia, 2-4 November 2016, Bali. In CD: 9-15.
- 188 Mohammad Ghazi Bin Hj Ismail, Chan Ngai Weng and Aminuddin Ab Ghani (2016) Peranan Kontraktor dan Tukang Paip dalam Pengurusan Air Tidak Berhasil (NRW) Secara Efisien: Kajian Kes di Bechah Tendong, Pasir Mas, Kelantan, Malaysia (HSSEC 1045). In Proceedings of the International Conference on Humanities, Social Sciences & Environment (HSSEC), Co-organised by by School of Social Sciences, School of Humanities & School of Housing, Building and Planning Universiti, Sains Malaysia, 11800, Penang, Malaysia, 2-4 November 2016, Bali. In CD: 1-8.
- 189 Chan Ngai Weng, Hong Chern Wern and Lai Chee Hui (2017) Public perception, understanding and commitment towards climate change in Penang. Proceedings of Persidangan Kebangsaan Masyarakat, Ruang dan Alam Sekitar, 2017, School of Humanities Universiti Sains Malaysia, 255-269.
- 190 Mohammad Ghazi Hj. Ismail and Chan Ngai Weng (2017) Keefisienan pengurusan NRW dalam meningkatkan pengeluaran dan penggunaan air dengan rujukan Bechah Tendong, Pasir

- Mas, Kelantan, Malaysia, Proceedings of Persidangan Kebangsaan Masyarakat, Ruang dan Alam Sekitar, 2017, School of Humanities Universiti Sains Malaysia, 337-345.
- 191 Chan Ngai Weng and Narimah Samat (2017) Reducing flood hazards for overall flood loss reduction towards alleviating poverty of flood victims in Kelantan state, Malaysia. Proceedings in 3rd Ruhuna University International Conference on Humanities and Social Sciences di University of Ruhuna, Sri Lanka.
- 192 Sulzakimin Mohamed, Seow Ta Wee and Chan Ngai Weng (2017) The Awareness towards Sustainable Development of Construction Industry in Kuala Lumpur, Malaysia. In Kazuaki Maeda, K., Sandhu, P. S. and Sergey, L. (Eds) Dignified Researchers In Civil, Architectural & Environmental Engineering (DRCAEE) 2017, 1,1, 179-184. (Also available online <http://drcaee.org/proceeding.php/77> ISBN 978-81-933894-1-6. <https://doi.org/10.15242/DIRPUB> Pages 125-130).
- 193 Chan, N.W., Nor Azazi Zakaria, Aminuddin Ab Ghani, Lee, L.K. and Narimah Samat (2017) Social capital and community resilience in coping with flood disasters in Malaysia. E-Proceedings of the 37th IAHR World Congress, August 13-18 Kuala Lumpur, Malaysia.
- 194 Lai, C.H., Chan, N.W., Nor Azazi Zakaria and Goh, H.W. (2017) Mobilising local communities towards involvement in river management: lessons learnt from the Sungai Pinang river community engagement project in Penang, Malaysia. E-proceedings of the 37th IAHR World Congress, August 13-18 Kuala Lumpur, Malaysia.
- 195 Tan, M.L., Chua, V.P., Liew, J., Tangang, F. and Chan, N.W. (2017) Projecting future hydro-climatic changes of the Johor River Basin, Malaysia. E-proceedings of THE 37th IAHR World Congress, August 13-18 Kuala Lumpur, Malaysia.
- 196 Norsyuhada Anua and Chan, N.W. (2017) Issues and challenges in reducing vulnerability among communities in Kelantan. Proceedings of International Conference on Humanities 2017 (InCOH2017) “The Role and Relevancies of Humanities towards Supporting Sustainable Development Goals”, 16-18 August 2017, Penang.
- 197 Ong, K.S., Chan, N.W. and Sharifah Rohayah Sheikh Dawood (2017) Tourism within multifunctional rural area: issues and challenges. Proceedings of International Conference on Humanities 2017 (InCOH2017) “The Role and Relevancies of Humanities towards Supporting Sustainable Development Goals”, 16-18 August 2017, Penang.
- 198 Chan, N.W. (2017) Achieving water resources security via Environmental Humanities: Examples from Malaysia. Plenary Speech III, Proceedings of 5th International Conference on Environmental Research & Technology (ICERT 2017), 23-25 August 2017, Penang.
- 199 Sim, L.M. and Chan, N.W. (2017) Indigenous knowledge and its future: Analysis of practices and communication networks in Xishuangbanna, China. Proceedings of the , 5th International Conference on Environmental Research & Technology (ICERT 2017), 23-25 August 2017, Penang.
- 200 Ong, K.S. and Chan, N.W. (2017) Pay for plastic bag: A case study of Penang, Malaysia. Proceedings of the. 5th International Conference on Environmental Research & Technology (ICERT 2017), 23-25 August 2017, Penang.
- 201 Chan, N.W. (2017) Engaging relevant stakeholders towards holistic river management for sustainable environment and development. Proceedings of the IACSC Bangkok 2017, International conference of the International Academic Consortium of Sustainable Cities, 11 September 2017, Bangkok.
- 202 Ong, K.S., Chan, N.W. and Sharifah Rohayah Sheikh Dawood (2017) Tourism in mangrove forest: Multifunction, Coexistence or Contradiction? Proceedings of the IACSC Bangkok 2017, International conference of the International Academic Consortium of Sustainable Cities, 11 September 2017, Bangkok.
- 203 Phang, W.L. and Chan, N.W. (2017) Role of non-governmental organisations in engaging students in environmental education in Penang, Malaysia. Proceedings of the IACSC

- Bangkok 2017, International conference of the International Academic Consortium of Sustainable Cities, 11 September 2017, Bangkok.
- 204 Sim, L.M. and Chan, N.W. (2017) Solving transboundary water issues between Kedah and Penang States. Proceedings of the IACSC Bangkok 2017, International conference of the International Academic Consortium of Sustainable Cities, 11 September 2017, Bangkok.
- 205 Chan, N.W. (2017) Integrating water demand management with water supply management for overall water sustainability: examples from Southeast Asia. E-Proceedings in CD Rom of the United States Pacific Command (USPACOM) “Maritime Environmental Security Workshop (MESW)”, 12-15 September, Kota Kinabalu.
- 206 Lai, C. H., Tan, D.T., Chan, N. W., Zakaria, N. A. (2018). Applying A System Thinking Approach to Explore Root Causes of River Pollution: A Preliminary Study of Pinang River in Penang State, Malaysia, Proceedings of the 21st Congress of International Association for Hydro-Environment Engineering and Research (IAHR), Asia Pacific Division (APD) - Multi-Perspective Water for Sustainable Development, Yogyakarta, Indonesia. 2-5 September 2018, 1441-1448. ISBN 978-602-71762-7-0.
- 207 Chan, N.W. (2018) Combining engineering measures with social resilience in coping with urban floods in Malaysia. Proceedings of 8th International Conference on Future Environment and Energy (ICFEE 2018), 10-12 January 2018, Phuket, 14-15.
- 208 Chan, N.W. (2018) Enhancing biomass energy production towards stabilising climate: case study of Malaysia. Proceedings of 4th International Conference on Advances in Environmental Research (ICAER 2018), 28-30 May 2018, Hong Kong, 8-9.

(E) UNPUBLISHED REPORTS:

- 1 Chan, N.W. (1981) **A Quantitative Analysis of Rainfall Patterns and Drought Occurrences in Northwest Peninsular Malaysia**. Unpublished M.A. thesis, University of Malaya, Kuala Lumpur, 384 pp.
- 2 Chan, N.W., Chong, P.F., Hashim Muslim, Kwan, K.F., Mohd Nasir Shaari, Norlin Jaafar, Richard Mani Banda, Sairin Samin and Zainal Jain (1991) **Preparation of a Landuse/Cover Classification Map of Lower Kelang Valley Region Using Remote Sensing Techniques**. Unpublished Report funded by the Malaysian Centre for Remote Sensing (MACRES), Kuala Lumpur, May 1991, 59 pp.
- 3 Chan, N.W. (1991) *The Climate of Penang Hill: A General View of Existing Climatic Conditions as Compared to its Surrounding Lowlands*. Unpublished Report on the Short-term Research Grant Project **Kajian Tentang Ciri-Ciri Persekitaran dan Diversiti Flora dan Fauna Bukit Bendera Pulau Pinang**. Research and Development Section, Universiti Sains Malaysia, August 1991, 20 pp.
- 4 Chan, N.W. (1991) Amalan-Amalan Penanaman Padi Di Sawah Sempadan dan Sungai Burong, Mukim Tanjong Karang dan Pengaruhnya Terhadap Perubahan Kualiti Air Permukaan. Unpublished Report of the R & D Research Grant Project **Satu Kajian Tentang Perubahan Kualiti Air Permukaan Akibat Aktiviti-Aktiviti Dalam Kitaran Penanaman Padi di Mukim Tanjong Karang, Daerah Kuala Selangor**, Funded by Universiti Sains Malaysia, August 1991, 200 pp. (Translation : Padi Farming Practices in Sawah Sempadan and Sungai Burong, Tanjong Karang Mukim and its influences on Surface Water Quality Changes)
- 5 Chan, N.W. (1991) **The Flood Hazard in Peninsular Malaysia: A Review of Concepts and the Search for a Model of Human Response**. Unpublished Preliminary Report submitted to the Flood Hazard Research Centre, Middlesex Polytechnic, Queensway, Enfield, Middlesex EN3 4SF, October 1991, 30 pp.

- 6 Chan, N.W. (1991) **Images of Malaysia**. Unpublished Report submitted to the Flood Hazard Research Centre, Middlesex Polytechnic, Queensway, Enfield, Middlesex EN3 4SF, December, 20 pp.
- 7 Chan, N.W. (1991) **The Flood Hazard in Peninsular Malaysia: An Evaluation of Forecasting and Warning Systems**. Paper presented at the Seminar on Flood Hazard in Malaysia. Organised by the Flood Hazard Research Centre, Middlesex University, Queensway, Enfield, Middlesex, London on the 31st of October 1991.
- 8 Chan, N.W. (1992) **A Critical Literature Review of Flood Hazard Research**. Unpublished Report, Flood Hazard Research Centre, Middlesex University, Queensway, Enfield, Middlesex (UK), London.
- 9 Ho, S.C. (ed) (1992) **Environmental Characteristics and Diversity of the Flora and Fauna of Penang Hill, Penang**. Short term research grant report, Universiti Sains Malaysia. I was part of the team of researchers who contributed to the completion of this report.
- 10 Chan, N.W. (1995) **Natural and Human Use Systems Relating to Flood Hazards in Peninsular Malaysia**. Report prepared for the Flood Hazard Research Centre, Middlesex University, Queensway, Enfield, Middlesex EN3 4SF, 80 pp.
- 11 Chan, N.W. (1995) **The Institutional Context of Flood Hazard Management in Malaysia**. Report prepared for the Flood hazard Research Centre, Middlesex University, Queensway, Enfield, Middlesex EN3 4SF, 70 pp.
- 12 Chan, N.W. (1995) **A Contextual Analysis of Flood Hazard Management in Peninsular Malaysia**, Unpublished Ph.D. thesis, Middlesex University (UK), 662 pp.
- 13 Chan, N.W. (1995) **An Assessment of Current British River Flood Forecasting Systems in England and Wales**, Report prepared for the School of Geography and Environmental Management, Middlesex University, Queensway, Enfield, Middlesex EN3 4SF.
- 14 Chan, N.W. (1995) **A Preliminary Survey of Flood Damage Incurred by Residential, Commercial and Industrial Establishments in Various parts of Peninsular Malaysia**. Report prepared for the Flood hazard Research Centre, Middlesex University, Queensway, Enfield, Middlesex EN3 4SF.
- 15 Chan, N.W. (1995) **Evaluating the Most Significant Factors Affecting the Overall Subjective Severity and the Subjective Severity of Other Impacts of Flooding in Peninsular Malaysia**. Report prepared for the Flood hazard Research Centre, Middlesex University, Queensway, Enfield, Middlesex EN3 4SF.
- 16 Leong, Y.K., Chan, N.W., Ahmad Chik, Ganesh Rasagam, Toh, H.S. and Teng, F.L.E. (1996) **Review of the Preliminary EIA on the Proposed Housing Development on Lot 4790, MK13, NED, Paya Terubong, Penang**. Report prepared by the Penang Chief Minister's EIA Advisory Panel for Y.A.B. Chief Minister of Penang, Pulau Pinang.
- 17 Chan, N.W. (1997) **Geography, Resources, Hazards and the Environment: A Collection of Papers by Chan Ngai Weng 1981-1997, Part I**. Unpublished Occasional paper.
- 18 Chan, N.W. (1997) **Geography, Resources, Hazards and the Environment: A Collection of Papers by Chan Ngai Weng 1981-1997, Part II**. Unpublished Occasional paper.
- 19 Chan, N.W. (1997) **Cuaca, Iklim dan Hidrologi - Pengaruh dan Interaksinya dengan Manusia-Alam Sekitar: Satu Koleksi Kertas Kerja oleh Chan Ngai Weng 1981 - 1997**. Unpublished Occasional paper.
- 20 DCT Consultancy Services Sdn Bhd (1997) **Penang Environmental Conservation Strategy - Inception Report**. Report prepared for the Penang State Government. I am a team leader on the Natural Resources Working Group which is part of the team for this report. I wrote the sections on Hill Land, Water Resources and Flooding.

- 21 Chan, N.W., Morshidi Sirat, Ruslan Rainis, Wan Ruslan Ismail and Ab Latif Ibrahim (1997) **Urban Sustainability and the Effects of Rapid Socio-Economic, Industrial and Infrastructure Development in Penang Island on the Environment, with special reference to Soil Erosion, Landslides, Water Pollution and Flooding - Inception Report**. Report prepared for the Institute of Strategic and International Studies (ISIS) Malaysia. UNDP/ISIS Programme of Research Grants for Small-Scale Projects on Environment and Development. I am Project Leader and editor of this report.
- 22 Chan, N.W. (1997) **Manusia, Iklim, Tumbuhan dan Alam Sekitar - Nota-Nota Kuliah**. Unpublished Report. School of Humanities, Universiti Sains Malaysia, Penang, 200 pp.
- 23 Chan, N.W. (1997) *Chapter 4.1 Physical Geography*. In DCT Consultancy Services Sdn Bhd (December 1997) **Penang Environmental Conservation Strategy - Interim Report**. Report prepared for the Penang State Government, Pulau Pinang, 4-1 to 4-10a.
- 24 Chan, N.W. (1997) *Chapter 4.2.2 Hill Land*. In DCT Consultancy Services Sdn Bhd (December 1997) **Penang Environmental Conservation Strategy - Interim Report**. Report prepared for the Penang State Government, Pulau Pinang, 4-19 to 4-26.
- 25 Chan, N.W. (1997) *Chapter 4.3 Water Resources*. In DCT Consultancy Services Sdn Bhd (December 1997) **Penang Environmental Conservation Strategy - Interim Report**. Report prepared for the Penang State Government, Pulau Pinang, 4-31 to 4-48.
- 26 Chan, N.W. (1997) *Chapter 5.5 Flooding*. In DCT Consultancy Services Sdn Bhd (December 1997) **Penang Environmental Conservation Strategy - Interim Report**. Report prepared for the Penang State Government, Pulau Pinang, 5-15 to 5-21.
- 27 Chan, N.W. (1998) *Technical Report on the Physical Geography of Penang*. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Penang Environmental Conservation Strategy**, DCT Consultancy Services Sdn Bhd (March 1998), Pulau Pinang.
- 28 Chan, N.W. (1998) *Technical Report on Hill Land Development in Penang*. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Penang Environmental Conservation Strategy**, DCT Consultancy Services Sdn Bhd (March 1998), Pulau Pinang.
- 29 Chan, N.W. (1998) *Technical Report on Water Resources and Conservation in Penang*. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Penang Environmental Conservation Strategy**, DCT Consultancy Services Sdn Bhd (March 1998), Pulau Pinang.
- 30 Chan, N.W. (1998) *Technical Report on Hydrology and Flooding in Penang*. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Penang Environmental Conservation Strategy**, DCT Consultancy Services Sdn Bhd (Mac 1998), Pulau Pinang.
- 31 Chan, N.W. (1998) **Hydrological Survey of a Section of the Sungai Sedim carried out on 17 June 1998**. Reported prepared for Consumers' Association of Penang, Penang.
- 32 Chan, N.W., Morshidi Sirat, Ruslan Rainis, Wan Ruslan Ismail and Ab Latif Ibrahim (1998) **Urban Sustainability and the Effects of Rapid Socio-Economic, Industrial and Infrastructure Development in Penang Island on the Environment, with special reference to Soil Erosion, Landslides, Water Pollution and Flooding - Final Report**. Report prepared for the Institute of Strategic and International Studies (ISIS) Malaysia. UNDP/ISIS Programme of Research Grants for Small-Scale Projects on Environment and Development. I am Project Leader and main writer and editor of this report, 157 pp.
- 33 Chan, N.W. (1998) *Technical Report on the Climate, Topography and Drainage in the Balik Pulau Area, Penang*. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Drainage and Development Concept Study for the**

- Western Region of Penang Island.** PDC-AR&T Total management Sdn Bhd., Level 1, No. 1, Persiaran Mahsuri, Bandar Bayan Baru, 11909 Bayan Lepas, Penang.
- 34 Chan, N.W. (1998) *Technical Report on Water Resources in the Balik Pulau Area, Penang*. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Drainage and Development Concept Study for the Western Region of Penang Island.** PDC-AR&T Total management Sdn Bhd., Level 1, No. 1, Persiaran Mahsuri, Bandar Bayan Baru, 11909 Bayan Lepas, Penang.
- 35 Chan, N.W. (1998) *Technical Report on Flooding in the Balik Pulau Area, Penang*. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Drainage and Development Concept Study for the Western Region of Penang Island.** PDC-AR&T Total management Sdn Bhd., Level 1, No. 1, Persiaran Mahsuri, Bandar Bayan Baru, 11909 Bayan Lepas, Penang.
- 36 DCT Consultancy Services Sdn Bhd (1998) **Penang Environmental Conservation Strategy - Draft Final Report. Volume I: Data, Analysis And Tools.** May 1998. Consultancy Report prepared for the Penang State Government, Pulau Pinang.
- 37 DCT Consultancy Services Sdn Bhd (1998) **Penang Environmental Conservation Strategy - Draft Final Report. Volume II: Executive Summary.** May 1998. Consultancy Report prepared for the Penang State Government, Pulau Pinang.
- 38 DCT Consultancy Services Sdn Bhd (1998) **Penang Environmental Conservation Strategy - Draft Final Report. Volume III: Action Plan And Strategies.** May 1998. Consultancy Report prepared for the Penang State Government, Pulau Pinang.
- 39 PDC-AR&T Total Management Sdn Bhd. (1998) *Draft Report: Kajian Saliran dan Konsep Pembangunan Kawasan Barat Pulau Pinang*. November 1998. Consultancy Report prepared for the Penang State Government, Pulau Pinang in **The Drainage and Development Concept Study for the Western Region of Penang Island.** I wrote the sections on Climate, Topography and Drainage, Water Resources and Flooding.
- 40 Kerajaan Negeri Pulau Pinang (1999) **Executive Summary.** DCT Consultancy Services Sdn. Bhd. Consultancy Report prepared for the Penang State Government, Pulau Pinang.
- 41 Kerajaan Negeri Pulau Pinang (1999) **Penang Environmental Conservation Strategy: Action Plan.** DCT Consultancy Services Sdn. Bhd. Consultancy Report prepared for the Penang State Government, Pulau Pinang.
- 42 Kerajaan Negeri Pulau Pinang (1999) **Technical Report: Data, Analysis and Tools.** DCT Consultancy Services Sdn. Bhd. Consultancy Report prepared for the Penang State Government, Pulau Pinang.
- 43 Universiti Sains Malaysia Consultancy Team (1999) **The Department of Environment Malaysia's Water Pollution Control Project: Classification of Rivers in Malaysia - Technical Draft Final Report**", March 1999. I carried out the study and wrote the section on "Hydrology of the Sungai Pinang". The project is coordinated by Professor Mashhor Mansor of the School of Biological Sciences, USM.
- 44 Unniversiti Sains Malaysia Consultancy Team (1999) **The Department of Environment Malaysia's Water Pollution Control Project: Classification of Rivers in Malaysia - Technical Draft Final Report.** March 1999. I carried out the study and wrote the section on "Hydrology of the Sungai Kedah. The project is coordinated by Professor Mashhor Mansor of the School of Biological Sciences, USM.
- 45 The Malaysian Nature Society Penang Branch (1999) **Pencinta Alam: Compilation of Newsletters July 1998-December 1999.** Edited by Chan N W. Limited Edition.
- 46 PDC-AR&T Total Management Sdn Bhd. (1999) **Final Report: Kajian Saliran dan Konsep Pembangunan Kawasan Barat Pulau Pinang.** Consultancy Report prepared for the Penang State Government, Pulau Pinang. I wrote the sections on Climate, Topography and Drainage, Water Resources and Flooding.

- 47 Chan, N.W. (1999) *The Malaysian Nature Society Penang Branch Annual Report 1998/99*. In **Malaysian Nature Society 52nd Annual General Meeting Report 1998/99**. Malaysian Nature Society, Kuala Lumpur, pp 36-41.
- 48 Chan, N.W. (1999) *Guidelines for Development in Water Catchment Areas in the State of Penang. Section on Guidelines for Hydrology*. Consultancy Report prepared for Edtech Associates Sdn. Berhad's **Formulation of Guidelines for the Development and Environmental Management of Water Catchment Areas in Penang State**. Penang.
- 49 Morshidi Sirat, Chan, N.W., Hassan Naziri, Ruslan Rainis, Wan Ruslan Ismail, Ab Latif Ibrahim, Aziz Abdul Majid, Norizan Md Nor, Usman Yaakub, Moha Asri Abdullah, Tarmiji Masron and Aziz Shafie (1999) **Kajian Pengkhususan Wilayah Di Malaysia – Laporan Kemajuan Jilid I (Translation: Regional Specialisation Study in Malaysia – Progress Report Volume 1)**. Consultancy Report prepared for the Economic Planning Unit (EPU) of Malaysia.
- 50 Morshidi Sirat, Chan, N.W., Hassan Naziri, Ruslan Rainis, Wan Ruslan Ismail, Ab Latif Ibrahim, Aziz Abdul Majid, Norizan Md Nor, Usman Yaakub, Moha Asri Abdullah, Tarmiji Masron and Aziz Shafie (1999) **Kajian Pengkhususan Wilayah Di Malaysia – Laporan Kemajuan Jilid II (Translation: Regional Specialisation Study in Malaysia – Progress Report Volume 2)**. Consultancy Report prepared for the Economic Planning Unit (EPU) of Malaysia.
- 51 Morshidi Sirat, Chan, N.W., Hassan Naziri, Ruslan Rainis, Wan Ruslan Ismail, Ab Latif Ibrahim, Aziz Abdul Majid, Norizan Md Nor, Usman Yaakub, Moha Asri Abdullah, Tarmiji Masron and Aziz Shafie (2000) **Laporan Akhir Kajian Pengkhususan Wilayah Di Malaysia (Translation: Regional Specialisation Study in Malaysia – Final Report)**. Consultancy Report for the Economic Planning Unit (EPU) of Malaysia.
- 52 Edtech Associates Sdn Bhd (2003) *Scientific Assessment of the Impact of the Proposed Helicopter Harvesting Project in Kedah Darul Aman*. Consultancy Report prepared for The Perbadanan Bekalan Air Pulau Pinang. Pulau Pinang: Edtech Associates Sdn Bhd, 123-L, Macalister Road, P.O. Box 163, 10720 Penang. (Contributed the 3 Chapters concerning Climate, Physical Geography and Hidrology)
- 53 Chan N W (Editor) (2003) *Introductory Course on Ecotourism*. Penang: The British Council DFID Higher Education Links and School of Humanities, Universiti Sains Malaysia.
- 54 WWF-Malaysia (2004) *Assessment on the Sustainability of Malaysia's Water Resources Utilisation by Using Sustainable Development Indicators (SDI)*. Consultancy Report prepared by Water Watch Penang for WWF-Malaysia, 49 Jalan SS223/15, 47400 Taman SEA, Petaling Jaya, Selangor D.E., Malaysia.
- 55 Chan, N.W. (2004) *Universiti Sains Malaysia-CETDEM Climate Change Survey, August-September 2004*. Research Report prepared by Universiti Sains Malaysia for CETDEM under USM-CETDEM MOU of Collaboration for climate change.
- 56 Chan, N.W. (Editor) 2004 *Introductory Course on Ecotourism*. Penang: The British Council DFID Higher Education Links & School of Humanities, Universiti Sains Malaysia.
- 57 Chan, N.W., Norizan Md Nor and Suriati Ghazali (2006) *Environmental Change and Sustainable Tourism: A Study of Impacts, Benefits and Involvement of Orang Asli Communities Along the Perak-Pahang-Kelantan Borders*. Unpublished Short Term Research Final Report, School of Humanities, Universiti Sains Malaysia.

(I) TRANSLATION:

- 1 Tivy, J. (1982) *Biogeography: A Study of Plants in the Ecosphere*. This book has been translated into Bahasa Malaysia by me and Rosiyah Abd. Latif and published by the Dewan Bahasa dan Pustaka in 1994.

**7 SUPERVISION/EXAMINATION OF POSTGRADUATE STUDENTS:
Supervision of Postgraduates:**

(a) PhD

No.	Name of Candidate (Thesis Title)	PhD/Masters (University)	Main Supervisor/ Co-Supervisor/ Field Supervisor	Year of Graduation
1	Clare Louise Gorton (Politics and Power: Government Intervention in the Muda Irrigation Scheme, Malaysia)	PhD (Middlesex University, UK)	Field Supervisor	1999
2	Main bin Rindam (Pencemaran udara dan tahap keasidan jasad air kajian kes di negeri Pulau Pinang)	PhD (Universiti Sains Malaysia)	Co-Supervisor	2003
3	Tan Cheng Hai (Pelancongan Bandar : Satu Kajian Persepsi Pelancong dan Penduduk di Georgetown, Pulau Pinang)	PhD (Universiti Sains Malaysia)	Co-Supervisor	2012
4	Ching Too al Kim (Operational Efficiency and Environmental Effectiveness Of the Malaysian Water Supply Sector)	PhD (Wageningen University, Netherlands)	Field Supervisor	2012
5	Hong Chern Wern (Assessment on Environmental Sustainability Aspects of Penang National Park Management)	PhD (Universiti Sains Malaysia)	Main Supervisor	2013
6	Ang Sek Chuan (Sustainable Tourism: A Study on Management and Sustainability Aspects of Salt Lick Ecotourism of Selected Salt Licks in Malaysia)	PhD (Universiti Sains Malaysia)	Main Supervisor	2014
7	Azreen Rozainee Abdullah (Ecotourism and Environmental Conservation in Belum Temengor Forest Complex: A Multi-Stakeholder Perspective)	PhD (Universiti Sains Malaysia)	Main Supervisor	2016
8	Riza Damanik (Carbon and Energy Footprint of Shrimp Aquaculture in Indonesia: The Opportunities and Limitations of International Responsible Aquaculture Standards)	PhD (Universiti Sains Malaysia)	Main Supervisor	2016
9	Ranjan Roy (The Significance of Natural and Human Factors in Rice Farming Sustainability in Bangladesh)	PhD (Universiti Sains Malaysia)	Main Supervisor	2015
10	Nur Aili Hanim Binti Hanafiah (Ketidakelesaian Terma akibat Pulau Haba Bandar terhadap Masyarakat di Pulau Pinang)	PhD (Universiti Sains Malaysia)	Main Supervisor	2016
11	Mohd Firdaus (Ecotourism Potentials of Penang Towards a Sustainable Tourism Destination: A Case Study of Penang Hill)	PhD (Universiti Sains Malaysia)	Main Supervisor	2018
12	Pushpawani A/P Ramaloo (Water security and Poverty Alleviation: Case of Urban Agriculture in Malaysia)	PhD (Universiti Kebangsaan Malaysia)	Co-Supervisor	2019

13	Mohammad Ghazi Bin Hj Ismail (Efficiency in Reduction of Non-Revenue Water (NRW) to Increase Water Security in Kelantan)	PhD (Universiti Sains Malaysia)	Main Supervisor	2019
14	Sim Lay Mei (Stakeholders' Participation in Sustainable Water Resources Management: A Case Study of the Muda River Basin)	PhD (Universiti Sains Malaysia)	Main Supervisor	Expected 2019
15	Ong Ke Shin (Stakeholders' Participation in Ecotourism Management: A Case Study of the Ulu Muda Forest Reserve)	PhD (Universiti Sains Malaysia)	Main Supervisor	Expected 2019
16	Nur Syuhada Binti Anua (Vulnerability and Resilience of Local Communities in Coping with Flood Hazards in Kelantan)	PhD (Universiti Sains Malaysia)	Main Supervisor	Expected 2020
17	Anggara Wiyono Wit Saputra (Assessing water resources system sustainability of Lombok River Basin)	PhD (Universiti Sains Malaysia)	Co-Supervisor	Expected 2020
18	Piratheeparajah Nagamuthu (Climate change impacts on surface water management in the northern province of Sri Lanka)	PhD (Universiti Sains Malaysia)	Main Supervisor	Expected 2021

(b) Masters

No.	Name of Candidate (Thesis Title)	PhD/Masters (University)	Main Supervisor/ Co-Supervisor/ Field Supervisor	Year of Graduation
1	Edlic Sathiamurthy (Urbanization and flash floods in Nibong Tebal Town Area, Seberang Prai Selatan, Pulau Pinang)	MSc (University of Malaya)	Co-Supervisor	1999
2	Lee Ooi Peng (Satu Kajian Variasi Ruangan Hujan Asid di Semenanjung Malaysia)	MA (Universiti Sains Malaysia)	Main Supervisor	2003
3	Yong Thian Ming (Pembangunan pelancongan mampan : satu kajian persepsi pengunjung di Bukit Bendera, Pulau Pinang)	MA (Universiti Sains Malaysia)	Main Supervisor	2005
4	Sin Hui Teng (Fenomena pulau haba dan pemandaran : satu kajian kes di Pulau Pinang)	MA (Universiti Sains Malaysia)	Main Supervisor	2005
5	Lee Boon Hiong (Pembangunan Ekopelancongan di Cameron Highlands: Satu Kajian Kes)	MA (Universiti Sains Malaysia)	Main Supervisor	2008
6	Norshuhada Binti Anua (Kesedaran, kepuasan dan keyakinan masyarakat terhadap kualiti air paip domestik: kajian kes di bandar Georgetown, Pulau Pinang)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2014
7	Azian Rizal Bin Ahmad (Kajian Pencemaran Mikrobiologi Dalam Air Minuman Dari Mesin Vendor Osmosis)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2016

	Berbalik Di Kawasan Sungai Dua, Daerah Timur Laut, Pulau Pinang)			
8	Nur Afiqah Binti Abdul Rahim (Adaptasi Komuniti Bandar Terhadap Fenomena Pulau Haba Bandar di George Town, Pulau Pinang)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2016
9	Nur Syuhada Binti Mustakim (Peranan Komuniti Setempat dan Pihak Pertubuhan Bukan kerajaan dalam Menangani Isu Pencemaran Sungai Pinang di George Town, Pulau Pinang)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2016
10	Nurul Hazwani Binti Siha (Keterancaman, Adaptasi dan Daya Tahan Komuniti Bandar Terhadap Banjir di Kota Bharu, Kelantan)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2016
11	Priscilla Law Siew Ing (Persepsi Komuniti Bandar Terhadap Sistem Penuaian Hujan: Kajian Kes di George Town, Pulau Pinang)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2016
12	Siti Nur Aziah Binti Napi (Adaptasi Komuniti Bandar Terhadap Pencemaran Udara: Kajian kes di George Town, Pulau Pinang)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2016
13	Ong Ke Shin (Policy Evaluation of Plastic Bag Ban: A Case Study in Penang, Malaysia)	MA (Universiti Sains Malaysia)	Main Supervisor	2014
14	Lai Chee Hui (Issues and Challenges in Reducing Non Revenue Water (NRW) Rates: A Comparative Study of Penang State and Sabah State in Malaysia)	MA (Universiti Sains Malaysia)	Main Supervisor	2016
15	Phang Wai Leng (Human Aspects of Water Security With Special Focus on Consumers' Behaviour)	MA (Universiti Sains Malaysia)	Main Supervisor	2018
16	Geraldine Kong Sing Liin (Using Rainwater harvesting System Towards Enhancing Water Sustainability in Yokohama)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2017
17	Siti Sarah Binti Jamil (Pertanian bandar di George Town: ke arah kehidupan komuniti yang lestari)	MA Mixed-Mode (Universiti Sains Malaysia)	Main Supervisor	2017

Examination of Postgraduates/Viva Chairman

No.	Name of Candidate (Thesis Title)	PhD/Masters	Externer or Interner Examiner /Viva Chairman	Year
1	Ahmed Suleiman Mustafa	PhD (Universiti Kebangsaan Malaysia)	Externer Examiner	2000
2	Pat Sears (Tajuk: Major Issues and	MSc (The University	Externer	2001

	Concerns of the Mekong River, An International River)	of Memphis, USA)	Examiner	
3	Ahmed Hamed Ibrahim	PhD (Universiti Kebangsaan Malaysia)	Externer Examiner	2002
4	Sahak Bin Ahmadun	MA (Universiti Kebangsaan Malaysia)	Externer Examiner	2003
5	Kamarul bin Ismail	MA (Universiti Sains Malaysia)	Interner Examiner	2003
6	Djanus Djamin	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2004
7	Cheng Ling Liang	MSc (Universiti Kebangsaan Malaysia)	Externer Examiner	2004
8	Jamalia Jenni	MA (University of Malaya)	Externer Examiner	2004
9	Worran Hj Kabul	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2004
10	Mohd Saat Bin Abas	M.Ed (Universiti Sains Malaysia)	Chairman of Viva Panel	2004
11	A.S. Hardy bin Buyong @ Shafii	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2004
12	Elamarin A/L Nadeson	M.Ed (Universiti Sains Malaysia)	Chairman of Viva Panel	2004
13	Mohamed Elnour Yassen Ahmed	PhD (Universiti Kebangsaan Malaysia)	Externer Examiner	2004
14	Zullyadini A Rahaman	PhD (Universiti Sains Malaysia)	Interner Examiner	2004
15	Velat Anak Bujeng	M.A (Universiti Sains Malaysia)	Chairman of Viva Panel	2005
16	Abdul Hamid	PhD (Universiti Putra Malaysia)	Externer Examiner	2005
17	Liew Ju Neng	PhD (Universiti Kebangsaan Malaysia)	Externer Examiner	2006
18	Haryati binti Shafii	PhD (Universiti Kebangsaan Malaysia)	Externer Examiner	2006
19	Ahmed Hamood Hamed Al-Qasmi	MA (Universiti Kebangsaan Malaysia)	Externer Examiner	2006
20	Rahmah Elfithri	PhD (Universiti Kebangsaan Malaysia)	Externer Examiner	2006
21	Tan Choon Chek	M.Sc. (Universiti Kebangsaan Malaysia)	Externer Examiner	2007
22	Sanar Kumaran A/L Kolandai	PhD (Universiti Putra Malaysia)	Externer Examiner	2008

23	Faidrullah Bin Sheik Naimullah	M.Sc. (Universiti Teknologi Malaysia)	Externer Examiner	2008
24	Seow Ta Wee	PhD (Universiti Kebangsaan Malaysia)	Externer Examiner	2008
25	Hamdan Bin Omar	M.Sc. (Universiti Teknologi Malaysia)	Externer Examiner	2009
26	Mukhlisah Binti Hanafi @Mohd Ghani	M.A. (Universiti Sains Malaysia)	Interner Examiner	2009
27	Rachel Samuel A/P Samuel	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2009
28	Cheung Kin Keung	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2009
29	Tuan Pah Rokiah Syed Hussain	PhD (Universiti Kebangsaan Malaysia)	Pemeriksa Luar	2010
30	Md. Abdullah Abraham Hossain	MSc. (Universiti Kebangsaan Malaysia)	Pemeriksa Luar	2010
31	Mahbub Ahsan Khan	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2010
32	Dessy Yoswati	PhD (Universiti Kebangsaan Malaysia)	Pemeriksa Luar	2010
33	Kamarul Syahril Bin Kamal	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2011
34	Nor Anisah Hj. Kadri	M.A. (Universiti Kebangsaan Malaysia)	Pemeriksa Luar	2011
35	Mohd Rizaludin Bin Mahmud	MSc (Universiti Teknologi Malaysia)	Pemeriksa Luar	2011
36	Woo Kuan Heong	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2011
37	Nik Nasriah binti Che Abdul Rahman	PhD (University of Malaya)	Pemeriksa Luar	2011
38	Mohammad Ghazi bin Hj. Ismail	M.A. (Universiti Sains Malaysia)	Pemeriksa Dalam	2011
39	Syarilla Binti Hj. Mohamas Suhaili	M.A. (Universiti Sains Malaysia)	Pemeriksa Dalam	2011
40	Thanapackiam a/p Periasamy	PhD (Universiti Malaya)	Pemeriksa Luar	2011
41	Pan Ia Lun	MSc (Universiti Kebangsaan Malaysia)	Pemeriksa Luar	2011
42	Wee Li Woon	MSc (Universiti Sains Malaysia)	Chairman of Viva Panel	2011
43	Sheida Jahani	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2011

44	Suharma	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2011
45	Issa Mohammed Salem Aldafa'ei	PhD (Education, Universiti Sains Malaysia)	Chairman of Viva Panel	2012
46	Dzulaikha Binti Khairuddin	M.Sc (Microbiology, Universiti Sains Malaysia)	Chairman of Viva Panel	2012
47	Abdulwahab Yahya Mohammed Abdulqader	PhD (Pusat Pengajian Pengurusan, Universiti Sains Malaysia)	Chairman of Viva Panel	2012
48	Nasir bin Nayan	PhD (Universiti Kebangsaan Malaysia)	Pemeriksa Luar	2012
49	Abd. Wahid bin Rasib	PhD (Universiti Teknologi Malaysia)	Pemeriksa Luar	2012
50	Dr. Sumitra Sithamparam	PhD (Universiti Kebangsaan Malaysia)	Pemeriksa Luar	2012
51	Cheah Soo Jin	PhD (Universiti Sains Malaysia)	Chairman of Viva Panel	2012
52	Suah See Ling (Tajuk : Menganalisis Model Literasi Pentaksiran dan Amalan Pentaksiran Guru-Guru serta Mengkaji Jurang Antara Literasi Pentaksiran dan Amalan Pentaksiran)	PhD (Pusat Pengajian Ilmu Pendidikan, Universiti Sains Malaysia)	Chairman of Viva Panel	2012
53	Shalini A/P Sanmargaraja (Tajuk : Penyediaan Fasiliti Rumah Orang Tua : Kajian Kes Di Bandaraya Ipoh Dan Johor Bharu)	M.Sc (Management of Property & Facilities, Universiti Tun Hussein Onn Malaysia)	Externer Examiner	2012
54	Rashidah Binti Ahmad (Tajuk: Penggunaan dan Penjimatan Tenaga Elektrik bagi Pengguna Domestik: Kajian Kes Taman Seri Empayar Presint 5, Putrajaya)	M.A. (Pusat Pengajian Ilmu Kemanusiaan, Universiti Sains Malaysia)	Internex Examiner	2012
55	Afolabi Oluwafemi Alabi (Tajuk: Dynamic Simulation Modelling For Water quality Management in Lake Chini)	PhD (Fakulti Sains & Teknologi, Universiti Kebangsaan Malaysia)	Externer Examiner	2012
56	Maged Ahmed Abdullah Alward (Tajuk: Assessment of Water Resources and Its Management in Wadi Siham Basin, Yemen)	PhD (Universiti Sains Malaysia)	Externer Examiner	2012
57	Nor Hafizah Binti Zainal Abidin (Tajuk: Monitoring Mechanisms, Risk-Based Auditing and Internal Audit Contribution to Strategic Implementation)	PhD (School of Management, Universiti Sains Malaysia)	Chairman of Viva Panel	2012

58	Sachiko Ishikawa (Tajuk: Peacebuilding and Human Security in Japan's Official Development Assistance (ODA): The Development and Transformation of JICA's Peacebuilding Assistance)	PhD (School of Social Sciences, Universiti Sains Malaysia)	Chairman of Viva Panel	2013
59	Tam Tze Huey (Tajuk: Flood Risk Mapping Using Geospatial Technologies and Hydrodynamic Modeling)	MSc (Faculty of Geoinformation & Land Property, Universiti Teknologi Malaysia)	Pemeriksa Luar	2013
60	Hamidi Bin Ismail (Tajuk: Sistem Pengurusan Alam Sekitar Bandar dalam Majlis Perbandaran Kajang dan Majlis Perbandaran Seremban)	PhD (Faculty of Social Science & Humanities, Universiti Kebangsaan Malaysia)	Externer Examiner	2013
61	Ahmad (M.J.) O. Alfawair (Tajuk: Identifying Training Needs and Client Satisfaction of Vocational Rehabilitation Services of Students with Physical, Intellectual or Multiple Disabilities in Kuwait)	PhD (Pusat Pengajian Ilmu Pendidikan USM)	Chairman of Viva Panel	2013
62	Wan Nur' Ashiqin Wan Mohamad (Tajuk: "Profil Pendidik Amalan Penjimatan Air di Institusi Pengajian Tinggi")	Sarjana Sastera (LESTARI UKM)	Externer Examiner	2013
63	Selvakumar Manickam (Tajuk: An Ontology-Based Approach to derive Cases from Structured and Unstructured Sources)	PhD (Pusat Pengajian Sains Komputer USM)	Chairman of Viva Panel	2013
64	Hanifah Binti Mahat (Title: Kesedaran dan Komitmen Pendidikan Pembangunan Lestari Dalam Komuniti Sekolah Menerusi Program Sekolah Lestari)	PhD (Geography, Universiti Pendidikan Sultan Idris)	Externer Examiner	2013
65	Zarrintaj Aminrad (Title: The Integration of Environmental Awareness, Knowledge and Attitude in Formal Education Regarding Secondary School Students: A Case Study in Kajang, Selangor)	PhD (LESTARI : UKM)	Externer Examiner	2013
66	Sulzakimin Bin Hj. Mohamed (Title: Malaysian Local Government Towards Sustainable Development: Knowledge Transfer Practices Framework in Planning Approval")	PhD (Technology Management, Universiti Tun Hussein Onn Malaysia)	Externer Examiner	2014
67	Rosmini Maru (Title: Kuantifikasi Intensiti Pulau Haba Bandar (IPHB): Kajian Kes di Bandaraya Jakarta)	PhD (Fakulti Sains Sosial dan Kemanusiaan UKM)	Externer Examiner	2014

68	Mohd Khairul Amri Kamaruddin (Title: Siasatan Perubahan Pelan Sungai Dan Bentuk Geometrik Dasar Sungai Dalam Penentuan Pengurusan Sungai Di Sungai Pahang, Malaysia)	PhD (Fakulti Sains Sosial dan Kemanusiaan UKM)	Externer Examiner	2014
69	Mohd Hairy Bin Ibrahim (Title: Perubahan Atmosfera Bandar dan Kesannya Di Bandar Raya Ipoh, Perak)	PhD (Institut Alam dan Tamadun Melayu [ATMA] UKM)	Externer Examiner	2014
70	Rafiqah Binti Mat (Pengekalan dan halangan pertanian bandar di bandar Kulim, Kedah)	MA Mixed-Mode (School of Humanities USM)	Internen Examiner	2014
71	Solihah Bt Hj Mustafa (Penglibatan komuniti dalam pemuliharaan george town sebagai tapak warisan dunia UNESCO)	MA Mixed-Mode (School of Humanities USM)	Internen Examiner	2014
72	Nor Robiatul Adawiyah Binti Shamsuri (Penglibatan Komuniti dalam Pengurusan Risiko Bencana di Bandar Bukit Mertajam, Pulau Pinang)	MA Mixed-Mode (School of Humanities USM)	Internen Examiner	2015
73	Nurul Fadzliana Binti Abu Hassan (Manfaat perkhidmatan ekosistem budaya dari Taman Jubli Perak, Sungai Petani, Kedah)	MA Mixed-Mode (School of Humanities USM)	Internen Examiner	2015
74	Izza Shafini Binti Zainal Abidin (Pengetahuan Komuniti Dalam Pengurangan Risiko Banjir Di Alor Setar, Kedah)	MA Mixed-Mode (School of Humanities USM)	Internen Examiner	2016
75	Mohammad Ariffudin Bin Sah Harudin (Pengurusan pencemaran air larian banjir di kawasan tadahan Sungai Pinang, Pulau Pinang)	MA Mixed-Mode (School of Humanities USM)	Internen Examiner	2016
76	Nor Atika Binti Abdullah Shahimi (gangguan persekitaran fizikal di laluan pejalan kaki terhadap aktiviti pelancongan di bandar warisan George Town, Pulau Pinang)	MA Mixed-Mode (School of Humanities USM)	Internen Examiner	2017
77	Tan Mou Leong (Title: Evaluation of Uncertainties on Modelling of Streamflow Effects by Climate Change)	PhD (Universiti Teknologi Malaysia)	Externer Examiner	2015
78	Ali Nikahd Ghosiraie (Title: Calibration of Ground-Based Radar For Rainfall Measurement)	PhD (Universiti Teknologi Malaysia)	Externer Examiner	2015
79	Nor Robiatul Adawiyah Binti Shamsuri (Title: Penglibatan komuniti dalam pengurusan risiko bencana di bandar Bukit Mertajam, Pulau Pinang)	MA (USM)	Internal Examiner	2015
80	Nazi Avani (Title: The Distribution and Strength of Vegetation Roots in Relation to Soil Reinforcement along East-West Highway, Malaysia)	PhD (USM)	Internal Examiner	2015

81	Izza Shafini Binti Zainal Abidin (Title: Pengetahuan Komuniti dalam Pengurangan Risiko Banjir di Alor Setar, Kedah)	MA (USM)	Internal Examiner	2015
82	Abdul-Wahab Shuaibu (Title: A Structural Equation Modelling Approach to Factors Influencing Adoption of Urban Self-Supply Water System in Yola, Nigeria")	PhD (UTM)	Externer Examiner	2017
83	Ismail Abdel Wahab Ragab Fayed	PhD (USM)	Chairman of Panel Re-Viva	2016
84	Md Zakir Md Salleh (Penggunaan Baja Organoseep Terhadap Prestasi Pertumbuhan, Produktiviti Dan Pengurusan Penanaman Pokok Tomato (Solanum lycopersicum)	PhD (UTHM)	Externer Examiner	2017
85	Zitty Sarah Ismail (Pembentukan Budaya Keselamatan Universiti Penyelidikan di Malaysia)	PHD (UKM)	Externer Examiner	2017
86	Nik Mohd Farhan (Potensi Spesies Syzygium papilose, Ploiarium alternifolium melchior dan Cratoxylon arborescens dalam proses ka walan hakisan cerun)	PHD (UPSI)	Externer Examiner	2017
87	Mazlina Bt Alang Othman (Determination of Water Quality Volume in Stormwater Facilities)	PHD (USM)	Interner Examiner	2017
88	Madya Herawati Binti Ahmad (Penyertaan Pihak Awam Terhadap Prosedur EIA Terperinci Berhubung Projek Petrokimia Di Pengerang Johor)	PhD (UTHM)	Externer Examiner	2017
89	Mohd Reduan Bin Buyung (Membangunkan Garis Panduan Kemudahan Bagi Kolej Kediaman Universiti Lestari di Malaysia)	PhD (UTHM)	Externer Examiner	2017
90	Mabroka Mohamed Daw (Spatial .Analysis of the determinants of urban residential water demand in Libya)	PhD (UKM)	Externer Examiner	2017
91	Minhaz Farid Ahmed (Risk Based Assessment and Management of Drinking Water in Langat River Basin, Malaysia)	PhD (UKM)	Externer Examiner	2018
92	Gajikoh Mohamed Sellu (Vulnerability Analysis of Flood Risk and Disaster Management in Freetown, Sierra Leone: A Community Flood Disaster Management Approach).	PhD (IIUM)	Externer Examiner	2018
93	Mani Rajan A/L Ellapan (Sikap, Inisiatif dan Regulasi Kendiri Pentadbir terhadap Pelaksanaan Pendidikan Pembangunan Lestari di Institut Pendidikan Guru Malaysia)	PHD (UPSI)	Externer Examiner	2018

94	Koh Liew See (Pemodelan Pengurusan Bekalan Air Domestik semasa Bencana Banjir di Malaysia: Kajian Kes Kuala Krai, Kelantan)	PHD (UPSI)	Externer Examiner	2018
95	Abubakar Umar Gabrain (Standard Operating Procedure for Rescue Operation in Man-made Disaster Management)	PhD (UTHM)	Externer Examiner	2018
96	Mohd Hilmi B P Ramli (Hasilan Air dan Pengurusan Sumber Air Kawasan Tadahan di Kelantan dengan Menggunakan Teknik Remote Sensing)	PhD (UTM)	Externer Examiner	2018
97	Mohamad Syafiqi Hasim (Flood Vulnerability and Flood Risk: Evidence from Flood-hit Households in the east coast region of Malaysia)	PHD (UUM)	Externer Examiner	2019
98	Shawal Bin Sahid Hamid @ Hussain (Pelaksanaan Pengurusan Keselamatan dan Kesihatan Pekerjaan di Sekolah Semenanjung Malaysia)	PHD (UKM)	Externer Examiner	2019
99	Simeon Moses Irekpita	PhD (USM)	Chairman of Panel Re-Viva	2019
100	Mohamad Syafiqi Hashim (Flood Vulnerability and Flood Risk: Evidence from Flood-Hit Households in the East Coast Region of Malaysia)	PhD (UUM)	Externer Examiner	2019
101	Durr-ZE-Nayab	PhD (USM)	Chairman of Panel Re-Viva	2019
102	Jogezai Nazir Ahmed	PhD (USM)	Chairman of Panel Re-Viva	2019
103	Taufan Teguh Akbari	PhD (USM)	Chairman of Panel Re-Viva	2019

8 EVALUATION OF CENTRES/SCHOOLS/CANDIDATES

Programme/Centres/Schools/etc:

1. Evaluated the Environmental Management Programme, Postgraduate Centre, Universiti Kebangsaan Malaysia, 2005 as Externer Evaluator.
2. Evaluated the Environmental Management Programme, Universiti Tun Hussein Onn Malaysia (UTHM), 2007 as Panelist.

Externer Assessor of the Post of Professor:

1. Associate Profesor Dr Shaharuddin Ahmad, Universiti Kebangsaan Malaysia, 2005.
2. Associate Profesor Dr Fredolin Tangang, Universiti Kebangsaan Malaysia, 2007.
3. Associate Profesor Dr. Ramzah Dambul, Uiversiti Malaysia Sabah 2018
4. Associate Profesor Dr Kadir Arifin, Universiti Kebangsaan Malaysia, 2018
5. Associate Profesor Dr Sharifah Zarina Syed Zakaria, Universiti Kebangsaan Malaysia, 2018

6 Associate Profesor Dr Sharifah Zarina Syed Zakaria, Universiti Kebangsaan Malaysia, 2019

Referee Assessor of the Post of Professor:

1. Professor Dr Muhammad Barzani Gasi, Universiti Kebangsaan Malaysia 2011.
2. Professor Dr Mohd. Ekhwan Toriman, Universiti Kebangsaan Malaysia 2011.

Externer Assessor of the Post of Associate Professor:

1. Dr Noorazuan Md Hashim, Universiti Kebangsaan Malaysia, 2008.
2. Dr Sharifah Mastura, Universiti Kebangsaan Malaysia, 2008.
3. Dr Kadir Ariffin, Universiti Kebangsaan Malaysia, 2010.
4. Dr Suhaily Yusri Che Ngah, Universiti Pendidikan Sultan Idris, 2010.
5. Dr Er Ah Choy, Universiti Kebangsaan Malaysia, 2011.
6. Dr Baharudin Bin Hj Md Arus, Universiti Sains Malaysia, 2014
7. Dr Haryati Binti Shafii, Universiti Tun Hussein Onn, 2014
8. Dr Nasir Bin Nayan, Universiti Pendidikan Sultan Idris, 2014
9. Dr Sharifah Munirah Al-latas, Universiti Kebangsaan Malaysia, 2014
10. Dr Tuan Pah Rokiah Syed Hussein, Universiti Utara Malaysia, 2014
11. Dr Mohd Hairy Bin Ibrahim, Universiti Pendidikan Sultan Idris, 2017
12. Dr Sulzakimin Bin Mohamed, Universiti Tun Hussein Onn, 2018
13. Dr Majed Mahmoud Faris Ibrahim, Al-Bayt University, Jordan 2019



DR. CHAN NGAI WENG
 Professor
 School Of Humanities
 Universiti Sains Malaysia
 11800 USM Penang

21 June 2019

.....
 Signature

.....
 Date