

## CURRICULUM VITAE

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## SCIENTIFIC PROFILE

Joy Jacqueline Pereira obtained a Ph.D. from University of Malaya in 1996, Master of Science from University of Leicester in 1991 and Bachelor of Science with Honours from Universiti Kebangsaan Malaysia in 1989, specialising in the field of geoscience. She is a Professor and Principal Research Fellow at the Southeast Asia Disaster Prevention Research Initiative of the Institute for Environment and Development in Universiti Kebangsaan Malaysia (SEADPRI-UKM) and Fellow of the Academy of Sciences Malaysia.

Her research covers disaster risk reduction, climate change adaptation and mineral resource management for sustainable development, with a focus on linking science to policy. In 2009, Joy Pereira led the team that developed the National Policy on Climate Change under the aegis of the Ministry of Natural Resources and Environment Malaysia. She also developed the National Disaster Risk Reduction Action Plan in conjunction with the National Security Council of the Prime Minister's Department. She is also actively involved in the Science to Action Initiative under the aegis of the Office of the Science Advisor to the Prime Minister of Malaysia.

Joy Pereira is Immediate Past President of the Geological Society of Malaysia, Council Member of the Institute of Geology Malaysia, and Member of the Malaysian Board of Professional Geologists. She was active in the Commission on Geoscience for Environmental Management of the International Union of Geological Sciences (IUGS-GEM) for about a decade, before taking compulsory retirement after serving as Chair from 2004 to 2008. She also served as Senior Advisor to the United Nations International Year of Planet Earth, 2006-2009, prior to her involvement in the IPCC.

## CONTRIBUTION TO IPCC

- ❖ Coordinating Lead Author for Asia (Chapter 24) of the IPCC-AR5 released in March 2014;
- ❖ Lead Author for the IPCC-AR5 Synthesis Report released in November 2014;
- ❖ Review Editor for the 2012 IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (IPCC-SREX);
- ❖ Hosted the IPCC Fourth Core Writing Team Meeting for the AR5 Synthesis Report in Putrajaya, Malaysia, 1-3 July 2014
- ❖ Presented IPCC Key Findings at several key meetings in Asia. Meetings in 2015 include the 13th Meeting of the IRDR Science Committee, Qingdao, China, 1-3 June 2015;

START/Advanced Institute on Disaster Risk Reduction and Loss Mitigation, April 20-26 2015, Taipei; ANCST Workshop on Climate Science and Adaptation, 15 April 2015, City University of Hong Kong; International Symposium on Multi-hazard and Risk 2015, 23-24 March 2015, Kuala Lumpur; and ASEAN Workshop on Enhancing Local Level Climate Change Adaptation, Bangi, Malaysia, 5-6 February 2015;

- ❖ Organised the Outreach Workshop on IPCC 5<sup>th</sup> Assessment Report in Putrajaya, Malaysia, 4 July 2014;
- ❖ Participated in the outreach video on the Working Group 2 Report of IPCC AR5 in 2014;
- ❖ Hosted an IPCC Keynote Address to Disseminate the findings of IPCC-SREX at the
- ❖ Participated in the IPCC Asia Regional Expert Meeting in Dhaka, Bangladesh, 16-18 March 2011;
- ❖ Participated in the IPCC Scoping Meeting for the 5th Assessment Report in Venice, Italy, 13-17 July 2009.

## ACADEMIC RECOGNITION

- ❖ Visiting Fellow, Malaysian Commonwealth Studies Centre, University of Cambridge [2014-2017]
- ❖ Fellow, Academy of Sciences Malaysia [2012]
- ❖ Best Research Group Award, Climate Change and Adaptation Research Group. Role: Project Leader. Awarding Body: Universiti Kebangsaan Malaysia [2010, 2011]
- ❖ Best Corporate Perspective Paper Award, Annual Global Business, Information Technology and Management for Economic Development Conference. Awarding Body: Global Strategic Management Inc., Michigan, USA [2009]
- ❖ Gold Medal, 19<sup>th</sup> International Invention, Innovation & Technology Exhibition (ITEX 2008). Project: Policy Study on Climate Change. Role: Project Leader. Awarding Body: Ministry Science, Technology & Innovation Malaysia [2008, 2004]
- ❖ Visiting Scientist, Graduate School of Engineering, Kyoto University (Geotechnical and Ecological Environmental Management; October 2006). Awarding Body: Japan Society for Promotion of Science (JSPS).

## ACADEMIC SERVICE

- ❖ Academic supervision of about 40 local and international graduate students and postdoctoral candidates by research since 1996, of which over 20 have graduated with doctoral and masters degrees.
- ❖ External Examiner to University of Malaya (since 1996), Universiti Putra Malaysia (since 2005), Universiti Sains Malaysia (since 2005) and Universiti Teknologi Malaysia (since 2008).
- ❖ Advisory Board Member for the Inter-Graduate School Program for Sustainable Development and Survivable Societies, Kyoto University, Japan.
- ❖ Member of Editorial Advisory Board for Bulletin of the Geological Society of Malaysia (since 2001); Malaysian Construction Research Journal (since 2005); Asian Journal of Environment and Disaster Management (since 2009); Journal of Environmental Policy & Planning (since 2007); and Springer Series on Disaster Management in Asia (since 2013).

- ❖ Reviewer for Abstracts of the 31st International Congress of the Geological Sciences (2008); Geological Society of London (2003&2004); and Ford Motor Co. Environmental Grant (2003-2005).

## RESEARCH AND PUBLICATION

- ❖ Project leader for 20 research national and international projects since 1999. Key recent projects include the following:-
  - Enhancing Capacity for Local Level Climate Change Adaptation in Southeast Asia (Phase 1) / ASEAN-India Green Fund [2014-2017];
  - Integrating CCA, DRR and L+D to address emerging challenges due to slow onset processes, in Cambodia, Malaysia, Myanmar, Vietnam and the Philippines /Asia Pacific Global Network (APN) [2014-2017];
  - Development of Indicators on Climatic Hazards and National Security for Malaysia. Funded by Ministry of Higher Education (FRGS) [2011-2013];
  - Strengthening Capacity for Policy Research on Mainstreaming Adaptation to Climate Change in Agriculture and Water Sectors, in India, Malaysia, Vietnam and Japan. Funded by Asia Pacific Network for Global Change (APN) [2009-2012]
  - Climate Resilient Development – Linking Science and Governance for Sustainability. Funded by UKM-RU Grant, RM 250,000 [2009-2011]
- ❖ Published over 60 peer reviewed journals, 40 chapters in books, 10 research monographs, 10 edited books and 20 popular articles. Key publications include the followings:-
  - Hijioka, Y., E. Lin, **J.J. Pereira**, R.T. Corlett, X. Cui, G.E. Insarov, R.D. Lasco, E. Lindgren, and A. Surjan, 2014: Asia. In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Barros, V.R., C.B. Field, D.J. Dokken, M.D. Mastrandrea, K.J. Mach, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1327-1370.
  - **Pereira, J.J.**, Reza, M.I.H. & Hunt J. 2014. Science and Technology for Disaster Prevention and Climate Resilience in Asia. *ASM Science Journal* 8(1): 83-85
  - Koh, F.P., **Pereira, J.J.**, Sarah Aziz. 2013. Platforms of Climate Change: An Evolutionary Perspective and Lessons for Malaysia. *Sains Malaysiana* 42(8):1027-1040.
  - **Pereira, J.J.** Komoo, I, Tan, C.T., Che Moin, U. & Lian, K.F. 2012. *Climate Change and Disaster Risk Reduction*. Academy of Sciences Malaysia, Kuala Lumpur, 16 pages.
  - Hunt, J. & **Pereira, J.J.**, 2012. How Social Media Can Play a Major Role in Disaster Forecasting and Recovery. <http://blogs.reuters.com/great-debate-uk/2012/11/22/how-social-media-can-play-a-major-role-in-disaster-forecasting-and-recovery/>
  - **Pereira, J.J.**, Tan, C.T. & Komoo, I. 2010. Mainstreaming Climate Change Adaptation and Disaster Risk Reduction – A Malaysian Approach. In: *Climate Change Adaptation and Disaster Risk Reduction* [Shaw, R., Pulhin, J. & Pereira, J.J. (eds.)] Emerald Publishers, Bingley, U.K.
  - **Pereira, J.J.** & Chen, S.P. (Eds.) 2008. *Role of Geoscience in Governance for Sustainable Development and Human Security*, LESTARI Publishers, Bangi, 129 pp.

- **Pereira, J.J.** 2007. Minerals Security Through Landuse Planning – Case Study of Rock Aggregates in Eastern Selangor. *Bulletin Geological Society of Malaysia*, 53, 89-93.
  - **Pereira, J.J.**, Komoo, I., Nordin, M. & Halimatun S.H. 2005. Refocusing Development Towards Sustainability – The Case of Selangor, Malaysia. *Malaysian Journal of Environmental Management*, 6, 125-135.
  - **Pereira, J.J.** & Ng, T.F. 2004. Construction Aggregates for Urban Development: Consumption, Sterilisation and the Environment. *Bulletin Geological Society of Malaysia*, 48, 21-24.
  - **Pereira, J.J.**, Stephen Ambu, Saim Suratman & Hamzah Mohamad, 2004, Strengthening Environmental Health in Malaysia: Linking Medical Geology to Health and the Environment, *Environmental Health Focus*, 2(2), 8-10.
  - **Pereira, J.J.** and Ibrahim Komoo, 2003, Addressing Gaps in Ecosystem Health Assessment: The Case of Mineral Resources. *In: D.J. Rapport, W.L. Lasley, D.E. Rolston, N.O. Nielsen, C.O. Qualset, and A.B. Damania (Eds.) Managing for Healthy Ecosystems*, Lewis Publishers, Boca Raton, Florida, 905-916.
- ❖ Research products from key projects include the following:-
- Construction Industry Guidelines: Construction Waste Management. Copyright: Construction Industry Development Board (CIDB) & Universiti Kebangsaan Malaysia (2007).
  - Training Module: Waste Management at Construction Sites. Copyright: Construction Industry Development Board (CIDB) & Universiti Kebangsaan Malaysia (2007).
  - Outreach Compact Disk (CD) on Waste Minimization and Recycling Potential of Construction Materials. Copyright: Construction Industry Development Board (CIDB) & Universiti Kebangsaan Malaysia (2006).