

CURRICULUM VITAE

I. Biographical Data

A. Name : P. Abdul Salam

B. Education:

- Doctor of Engineering, Energy Technology, Asian Institute of Technology, Thailand, 2005.
- Master of Engineering, Energy Technology, Asian Institute of Technology, Thailand, 1994.
- Bachelor of Science in Mechanical Engineering, University of Peradeniya, Sri Lanka, 1991.

C. Positions held:

October 2009 - Present **Assistant Professor**, Asian Institute of Technology (AIT)

Jan.2013 – July.2013 **Acting Leader**, Energy and Environment Thematic Area

Sept.2011 – Dec. 2012 **Coordinator**, Energy Field of Study, AIT

August 2012 – October 2013 **Coordinator**, MBA in Energy Business, AIT

October 2012 – Present **Coordinator**, Professional Master in Energy Business Management (PMEBM), AIT

Sept.2011 – October 2013 **Director**, Regional Energy Resources Information Centre, AIT

April 2007 - Sept. 2009 **General Manager cum Engineering Manager**
Genesis Engineering and Technical Service Co. Ltd, Thailand.

June 2005 – March 2007 **Senior Research Specialist**
Energy Field of Study, Asian Institute of Technology.

June 2002 – May 2005 **Research Specialist**
Energy Field of Study, Asian Institute of Technology.

June 1999 - May 2002 **Research Engineer**
Energy Field of Study, Asian Institute Technology.

Aug.1994 - May 1999 **Research Associate**
Energy Field of Study, Asian Institute of Technology.

May 1991 - Sep. 1992 **Instructor**
Department of Mechanical Engineering, University of Peradeniya, Sri Lanka.

II. Pedagogy

A. Experience as a teacher

Courses taught:

1. Biomass Conversion
2. Design and Management of Energy Systems
3. Rational Use of Energy in Buildings
4. Clean Coal Technology and Carbon Capture and Sequestration
5. Energy Resources and Technologies
6. Emission Mitigation in the International Context

III. Student Research Supervision

A. Theses supervised. Number of master and doctoral students graduated each year, on which the faculty served as committee chair or co-chair.

3.A.1. Summary of student research supervision at AIT (From October 2009 to Present)

Students	Completed		In-Progress	
	Chair of the committee	Co-chair of the committee	Chair of the committee	Co-chair of the committee
Doctoral	0	0	2	1
Masters	21	0	5	0

3.A.2. Details of student research supervision at AIT (From October 2009 to Present)

Doctoral:

Chair of the Committee:

Sr. No	Name of the Student	Research Topic	Graduated/ Ongoing
1.	Jakkapong Udomsirichakorn	A Study on CaO Based Catalytic Tar Reforming for Hydrogen Rich Gas Production in Chemical Looping Gasification	Ongoing
2.	Rotchana Intharathirat	Energy recovery from municipal solid waste through gasification: A case study in Thailand	Ongoing

Masters:

Chair of the Committee:

Sr. No	Name of the Student	Research Topic	Graduated/ Ongoing
1.	Nopparat Apichatsiritham	A Study on Electricity Generation using Biogas from Anaerobic Co-digestion of Napier Pakchong I Grass and Poultry Manures in Thailand	Ongoing
2.	Surachet Yanwaree	Agricultural Waste to Energy: A Case Study on Nakhon Si Thammarat Province	Ongoing
3.	Nattapan Sawaddiyakorn	Pre-feasibility of Offshore Wind Energy in Thailand: A Case Study on Koh Tao	Ongoing
4.	Rajesh Thapa	Impact of Climate Change on Bio-Energy: A Case Study in Central Development Region, Nepal	Ongoing

5.	Elita Fidiya Nugrahani	The Role of Energy Efficiency in Campus Building	Dec. 2013
6.	Promthong Suvarnapradi	Assessment of Greenhouse Gas Emissions: The Case of a Sugar Industry	May 2013
7.	Ratchanee Muangprasert	A Study on Least Energy Pathways for Microalgae Based Biodiesel in Thailand	May 2013
8.	Tananun Pongchaipasert	A Study on Biogas Production Potential Using TiFeCl ₃ for Wastewater Preliminary Treatment	May 2013
9.	Muhammad Ahad Rahman Miah	Sustainable Extraction and Usage of Coal in Jamalganj coal field, Bangladesh	May 2013
10.	Supa Tanprasertkun	Greenhouse Gas Mitigation Potential of Biogas Generation from MSW and Domestic Wastewater in Thailand	May 2013
11.	Gunawan Damanik	Combustion of Mixed Fuel in Circulating Fluidized Bed Boiler	May 2013
12.	Dedi Yandri	A Study on Efficiency of Power Boiler	May 2013
13.	Karabee Das	A Generic Methodology for Geographical Assessment of Microalgae Potential	May 2013
14.	Bhawat Traipattanakul	Technical and Policy Options for Wind Energy Development in Thailand	December 2012
15.	Bijay Bahadur Pradhan	Thermoelectric Generation from Low Temperature Waste Heat: A Performance Analysis on Biomass Cookstove	December 2012
16.	Aung Myat	Roles of Biomass for Energy Supply in Hinthada District (Myanmar): A case study on Rice Husk	May 2012
17.	Jakkrapun Tessiri	A Study on Small Scale Applications of Biogas	May 2012
18.	Andri Setiyo Wibowo	Status of and Improvement Opportunities for Energy Usage in a Kraft Pulp and Paper Mill	May 2012
19.	Kayasit Piyamongkolwong	A Comparative Study on GHG Emission from Activities of Two Thai Municipalities	May 2012
20.	Panomporn Korndee	A Study on Trigenation System	December 2011
21.	Peerakit Theerasopon	GHG Mitigation Potential of Clean Coal Technologies & Carbon Capture and Sequestration in Thailand	December 2011
22.	Daya Nhuchhen	Applications of Woody Biomass in a Small Scale Gasification System	May 2011
23.	Wipawan Thammachataree	Biogas as an Option for a Low Carbon Campus: A Case Study at AIT	May 2011
24.	Nikhil Sakharam Kolsepatil	Estimation of Carbon Footprint for an Indian Diesel Engine Manufacturing Industry	May 2011
25.	Hafsah	Potential of Palm Oil Residue for an Energy Based System in South Sumatera	May 2011
26.	Pichet Ninduangdee	Opportunities for Low Carbon Technologies and Greenhouse Gases Mitigation Potential in Thai Cement, and Pulp and Paper Industries	May 2010

IV. Research

A. Publications

1. Books and monographs

- i. S. C. Bhattacharya and P. Abdul Salam. Biomass Energy in Developing Countries: A Multi-Faceted Study in Asian Countries. 2006. RERIC publication. ISBN 974-8257-33-9.
- ii. S. C. Bhattacharya and P. Abdul Salam. A Review of Selected Biomass Energy Technologies: Gasification, Combustion, Carbonization and Densification. 2006. RERIC publication. ISBN974-8257-14-2.
- iii. P. Abdul Salam. A Comparative Study of Hydrodynamics and Gasification Performance of Two Types of Spouted Bed Reactor Designs. Doctoral Dissertation. Asian Institute of Technology, No. ET-05-01, 2005.
- iv. P. Abdul Salam. A Dynamic Simulation Model for a Photovoltaic Refrigeration System. Masters Thesis. Asian Institute of Technology, No. ET-94-31, 1994.

2. Refereed journal articles: international, regional, national. For each article, indicate the publisher of the journal and the number of SCOPUS citations.

2.A Summary of journal articles

	Refereed Journals		
	International	Regional	National
Published	23	0	0
Submitted (Under review)	2	0	0
Under preparation	3	0	0

2. B Articles in Refereed International Journals

According to SCOPUS citation overview, as of 17th January 2014:

- Total number of citations (excluding the self citations) = 351
- **h-index = 10**

- i. Jakkapong Udomsirichakorn, Prabir Basu, P.Abdul Salam and Bishnu Acharya. CaO-based chemical looping gasification of biomass for hydrogen-enriched gas production with in situ CO₂ capture and tar reduction. Submitted to *Fuel Processing Technology* in December 2013.
- ii. Rotchana Intharathirat and P. Abdul Salam. Assessment of Conversion of MSW to Energy in Thailand. Submitted to *Renewable and Sustainable Energy Review* in September 2013.
- iii. Jakkapong Udomsirichakorn and P. Abdul Salam. Review of hydrogen-enriched gas production from steam gasification of biomass: The prospect of CaO-based chemical looping gasification. *Renewable and Sustainable Energy Review*. Vol.30 (2014), pp 565 -579.
- iv. Jakkapong Udomsirichakorn, Prabir Basu, P.Abdul Salam and Bishnu Acharya. Effect of CaO on tar reforming to hydrogen-enriched gas with in-process CO₂

- capture in a bubbling fluidized bed biomass steam gasifier. *International Journal of Hydrogen Energy*. Vol.38 (34), 2013. Pp. 14495-14504
- v. S. Kumar, Pujan Shrestha and P. Abdul Salam. A Review of Biofuel Policies in the Major Biofuel Producing Countries of ASEAN: Production, Targets, Policy Drivers and Impacts. *Renewable and Sustainable Energy Review*, Vol.26 (2013), pp 822-836.
 - vi. S. Kumar, P. Abdul Salam, Pujan Shrestha and Emmanuel Kofi Ackom. An Assessment of Thailand's Biofuel Development. *Sustainability*. Vol 5, pp. 1577-1597, 2013.
 - vii. Daya Nhuchhen and P. Abdul Salam. Estimation of Higher Heating Value of Biomass from Proximate Analysis: A New Approach. *Fuel*, 99 (2012), pp.55-63. Elsevier Science.
 - viii. Daya Nhuchhen and P. Abdul Salam. Experimental Study on Two-Stage Air Supply Downdraft Gasifier and Dual Fuel Engine System. *Biomass Conversion and Biorefinery*, Vol. 2(2), 2012, pp 159 – 168. Springer.
 - ix. P. Abdul Salam and S. C. Bhattacharya. A Comparative Hydrodynamic Study of Two Types of Spouted Bed Reactor Designs. *Chemical Engineering Science*, Vol. 61(6), 2006, pp 1946-1957. Elsevier Science.
 - x. P. Abdul Salam and S. C. Bhattacharya. A Comparative Study of Charcoal Gasification in Two Types of Spouted Bed Reactors. *Energy*, Vol.31 (2006), pp 228-243. Elsevier Science.
 - xi. S. C. Bhattacharya, P. Abdul Salam, Hu Runqing, H.I. Somashekar, D.A. Racelis, P. G. Ratnasiri, Rungrawee Yingyuad. Assessment of Sustainable Energy Potential of Non-plantation Biomass Resources in Selected Asian Countries. *Biomass and Bioenergy*, Vol. 29 (2005), pp 153-166. Elsevier Science.
 - xii. Li Junfeng, Hu Runqing, Song Yangin, Shi Jingli, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in China. *Biomass and Bioenergy*, Vol.29 (2005), pp 167 - 177. Elsevier Science.
 - xiii. N. H. Ravindranath, H. I. Somashekar, M. S. Nagaraja, P. Sudha, G. Sangeetha, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Non-plantation biomass Resources Potential for Energy in India. *Biomass and Bioenergy*, Vol.29 (2005), pp 178 - 190. Elsevier Science.
 - xiv. J. C. Elauria, M. L. Y. Castro, M. M. Elauria, S.C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in the Philippines. *Biomass and Bioenergy*, Vol.29 (2005), pp 191 - 198. Elsevier Science.
 - xv. K. K. C. K. Perera, P. G. Rathnasiri, S. A. S. Senarath, A.G.T.Sugathapala, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in Sri Lanka. *Biomass and Bioenergy*, Vol. 29 (2005), pp 199 - 213. Elsevier Science.
 - xvi. Boonrod Sajjakulnukit, Rungrawee Yingyuad, Virach Maneekhao, Veerawan Pongnarintasut, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in Thailand. *Biomass and Bioenergy*, Vol. 29 (2005), pp 214 - 224. Elsevier Science.
 - xvii. S.C. Bhattacharya, P.Abdul Salam, H.L. Pham and N.H.Ravindranath. Sustainable Biomass Production for Energy in Selected Asian Countries, *Biomass and Bioenergy*, Vol.25 (2003), pp.471-482. Elsevier Science.

- xviii. S.C. Bhattacharya, D.O.Albina and P.Abdul Salam. Emission Factors of Wood and Charcoal-fired Cookstoves, *Biomass and Bioenergy*, Vol.23 (2002), pp 453-469. Elsevier Science.
- xix. S.C. Bhattacharya and P.Abdul Salam. Low Greenhouse Gas Biomass for Cooking in the Developing Countries, *Biomass and Bioenergy*, Vol. 22 (2002), pp 305-317. Elsevier Science.
- xx. S.C. Bhattacharya, P. Abdul Salam, and Mahen Sharma. Emissions from Biomass Energy Use in Some Selected Asian Countries, *Energy*, Vol 25 (2000), pp169-188, 2000. Elsevier Science.
- xxi. M. A. Kumaradasa, S. C. Bhattacharya, P. Abdul Salam and Ghulam Qambar Amur. A Study of Biomass as a Source of Energy in Sri Lanka, *RERIC International Energy Journal*. Vol.21 (1999). Pp 55-68.
- xxii. H. P. Narang, D. C. Parashar, S. C. Bhattacharya and P. Abdul Salam. A Study of Biomass as a Source of Energy in India, *RERIC International Energy Journal*. Vol 21 (1999), pp11-23.
- xxiii. S.C. Bhattacharya, M. Arul Joe, Zahed Kandhekar, P. Abdul Salam and R. M. Shrestha. Greenhouse Gas Emission Mitigation from the Use of Agricultural Residues: the Case of Rice Husk, *Energy*, Vol.24 (1999). pp 43-59. Elsevier Science.
- xxiv. S.C. Bhattacharya, R. A. Attalage, M. Augustus Leon, G.Q. Amur, P. Abdul Salam, and C. Thanawat. Potential of Biomass Fuel Conservation in Selected Asian Countries, *Energy Conversion and Management*, Vol.40 (1999). pp 1141-1162. Elsevier Science.
- xxv. S.C. Bhattacharya, Jossy M.Thomas and P.Abdul Salam. Greenhouse Gas Emissions and The Mitigation Potential of using Animal Wastes in Asia, *Energy*, Vol.22 (1997), pp.1079-1085. Elsevier Science.

3. Papers in conference proceedings

- i. S. Kumar, Pujan Shrestha and P. Abdul Salam. Energy Access of the Urban Poor in Bangkok, Thailand. An International Energy Conference and 10th Sustainable Energy and Environment (SEE) Forum. Brunei Darussalam . 21st - 23rd November 2012.
- ii. Wipawan Thammachataree and P. Abdul Salam. Biogas as an Option for a Low Carbon Campus: a Case Study at AIT. Presented at the International Conference and Utility Exhibition 2011 on Power and Energy Systems: Issues and Prospects for Asia. 28 – 30 September 2011, Amari Hotel, Pattaya, Thailand.
- iii. P. Abdul Salam, S. Kumar and Manjula Sriwardhana. A Review of Biomass Gasification in the Mekong Region. Presented at the International Conference on Innovations for Renewable Energy, September 2010, Hanoi, Vietnam.
- iv. P. Abdul Salam. Biomass Resource Potential and Sustainable Use in Selected Asian Countries. Presented at the International Conference on Sustainability Science in Asia. Nov. 23-24, 2009, held at Asian Institute of Technology. Organized by Integrated Research System for Sustainability Science (IR3S), The University of Tokyo, Asian Institute of Technology, and United Nations University.
- v. S. C. Bhattacharya, Elson R.Homes and P.Abdul Salam, Emission of Greenhous Gases from Charcoal Making, presented in ISES 1997 Solar Energy Congress, Taejon, Korea, August 24 - 29, 1997.
- vi. S. C. Bhattacharya, Venu M.Singamsetti, P.Abdul Salam, Assessment of Bioenergy Potential in Asia, Presented in the Asian Seminar on Fuel Cell Technology for Rural Electrification, Coimbatore, India, April 25-26, 1996.

4. Papers in workshops

- i. P. Abdul Salam. Project Ideas – Tips and Pitfalls. Presented at the Second Regional Capacity Workshop for Asia and CIS on Barrier Analysis, Enabling Environment and Development of Technology Actions Plans. 21-24 February 2012. Novotel Hotel, Bangkok.
- ii. P. Abdul Salam. Modern Energy Use by the Urban Poor in Thailand: A Study of Slum Households in Bangkok and Khon Kaen. Workshop on Urban and Peri-urban Energy Access and Development in Asia., Sofitel Centara, Bangkok. Thailand. 4th October 2011.
- iii. P. Abdul Salam. Biomass Gasification in Thailand: Status and Potential. Presented at the International Cooperation Network Promotion Project (ICNPP) in Thailand, Organized by International Centre for Environmental Technology Transfer. Bangkok Imperial Queens Park Hotel, 16 November 2010.
- iv. P. Abdul Salam, S. Kumar. Renewable Energy Technology Research at AIT. Presented at the Consultative Meeting on “Establishing an Institutional Cooperation Mechanism to Promote Renewable Energy”, Organized by Asia Pacific Centre for Technology Transfer. 7 - 8 October 2010, AIT.
- v. P. Abdul Salam. Low Carbon Technologies for Cement Sector. Presented at the National Workshop on Low Carbon Technologies for Thai Manufacturing Sectors. 28 February 2010. Century Park Hotel, Bangkok.

5. Development project reports

- i. S. Kumar, Kyoko Kusakbe, C.O.P. Marpaung, P. Abdul Salam, C. Visvanathan and LAS Ranjith Perera. Action Towards Resource-Efficient and Low Carbon Cities in Asia: Experiences and Highlights.
- ii. S. Kumar, P. Abdul Salam, C.O.P. Marpaung and R.P. Shrestha. Technology Needs Assessment in Asia and Eastern Europe: A Regional Synthesis Report. Submitted to UNEP Riso. June 2012.
- iii. S. Kumar, P. Abdul Salam, C.O.P. Marpaung, J.G. Singh and B.Sireesha. AIT-EHMF Collaborative Project on Micro-Hydro System. Submitted to Ebara foundation. November 2012.
- iv. S. Kumar, P. Abdul Salam and P. Shrestha. Urban Peri-Urban Energy Access (Phase III). A report submitted to the Global Network on Energy for Sustainable Development (GNESD), Copenhagen, Denmark, April 2012.
- v. P. Abdul Salam, S. Kumar and Manjula Sriwardhana. The Status of Biomass Gasification in Thailand and Cambodia. A report submitted to Energy, Environment Partnership of Mekong Region, October 2010.
- vi. S. Kumar, P. Abdul Salam, Ram M. Shrestha and Manjula Siriwardhana. Bioenergy Thematic Study in Thailand and Indonesia. A report submitted to the Global Network on Energy for Sustainable Development (GNESD), Copenhagen, Denmark, August 2010.
- vii. S. Kumar, P. Abdul Salam and C. Visvanathan. Pilot Appraisal for Low Carbon Technology Innovation and Diffusion in Thai Manufacturing. A report submitted to the United Nations Industrial Development Organization (UNIDO), Austria, July 2010.

6. Non-refereed publications

Contributing author to the following publications:

- i. Renewables 2012: Global Status Report. REN21(Renewable Energy Policy Network for the 21st Century), 2012. Paris.
- ii. Bioenergy: The potential for rural development and poverty alleviation. GNESD (Global Network on Energy for Sustainable Development). UNEP Risoe. 2011. Copenhagen. ISBN 978-87-550-3916-2.
- iii. Technologies for mitigation of greenhouse gas emissions: barriers and promotional approaches – a comparative study in Asia (82 pages). ARRPEEC Publication. Asian Institute of Technology, 2005. ISBN 974-8257-09-6.
- iv. Technologies for mitigation of greenhouse gas emissions: barriers and promotional approaches – China (60 pages). ARRPEEC Publication. Asian Institute of Technology, 2005. ISBN 974-8257-00-2.
- v. Technologies for mitigation of greenhouse gas emissions: barriers and promotional approaches – India (62 pages). ARRPEEC Publication. Asian Institute of Technology, 2005. ISBN 974-8257-02-9.
- vi. Technologies for mitigation of greenhouse gas emissions: barriers and promotional approaches – Philippines (54 pages). ARRPEEC Publication. Asian Institute of Technology, 2005. ISBN 974-8257-04-5.
- vii. Technologies for mitigation of greenhouse gas emissions: barriers and promotional approaches – Sri Lanka (54 pages). ARRPEEC Publication. Asian Institute of Technology, 2005. ISBN 974-8257-05-3.
- viii. Technologies for mitigation of greenhouse gas emissions: barriers and promotional approaches – Thailand (38 pages). ARRPEEC Publication. Asian Institute of Technology, 2005. ISBN 974-8257-06-1.

7. Invited lectures and keynote addresses

- i. Keynote address. Climate Change Mitigation: Options and Opportunities. SAIMM Research Symposium on Engineering Advancements 2013 (RSEA, 2013). 27 April 2013. Sri Lanka.
- ii. Invited lectures. Biomass Conversion Technologies: Status and Issues. 3W Expo 2013. BITEC, 22-24 January 2013.
- iii. Invited lectures. Biofuels in ASEAN. Low Emission Development Strategy (LEDS) forum. Organized by USAID. Sofitel Hotel. Bangkok. 18 – 21 September 2012.
- iv. Invited lectures. Save our planet carbon score card. Save our planet conference series 2011. Organized by ASEAN Affairs. 18 March 2011. Shangri-La Hotel, Bangkok. Thailand.
- v. Trends in energy consumption and impacts on environment. AIT-EBARA International Training Course on “Energy Saving for Fluid Machinery Equipment and Effective Usage of Unused Energies”, 25 – 31 August, 2010, AIT, Thailand.
- vi. E-learning lecture on Best Practices and Case Studies in Renewable Energy Development. Under the UNESCO E-learning course. 25 March 2010, AIT.
- vii. E-learning lecture on Role of Private Sector in Renewable Energy Development. Under the UNESCO E-learning course. 22 March 2010, AIT.

B. Research Projects:

List of research grants and sponsored projects (completed and ongoing):

Sr. No	Project Title	Duration
1.	Urban Energy Access in Myanmar: Knowledge and Outreach	Nov.2013 – January. 2015
2.	Sustainable Mekong Research Network (Summernet) partnership initiation	July – August 2013
3.	Low Carbon Cooling Application Systems – study visits	July – August 2013
4.	SEA-EU-NET- II	November 2012 – October 2016
5.	Partnership for Market Readiness	March – December 2013
6.	Renewable Powered micro-/mini-grid generation	December 2012 – June 2013
7.	International Training on Design and Management of Domestic Biogas Systems	July 2012 – October 2012
8.	SEA-EU-NET	November 2010 – December 2012
9.	Urban and Peri-urban Energy Access	June 2011 – June 2012
10.	Biofuel Sustainable Policy Study	May 2011 - November 2011
11.	Technology Needs Assessment for Climate Change Mitigation	July 2010 - April 2012
12.	Biomass Gasification Study in the Mekong Region	June 2010 - March 2011
13.	RETScreen Version 4 Training	February 2010 - May 2010
14.	RETScreen Version 4 Integration	February 2010 - May 2010
15.	Micro-Hydro PV Hybrid System	February 2010 - April 2012
16.	Resource Efficient and Low Carbon Cities in Asia	December 2009 - December 2012
17.	Low Carbon Technologies in Thai Manufacturing Sector	November 2009 - March 2010

V. Service/Outreach

A. Professional Service

1. Leadership in policy and program development in professional organizations.
 - i. Member - American Society of Mechanical Engineers (ASME) – since 1995
 - ii. Member – American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) – since 2009
 - iii. Associate Member – Institute of Engineers Sri Lanka (IESL) – since 1992
 - iv. Life Member – Sri Lanka Energy Managers Association (SLEMA) –since 1995

2. Participation in organizational responses to policy, practice, or structural issues, which affect the field.

- i. Fourth Regional Forum and Eight Steering Committee Meeting of Energy Environment Partnership for Mekong Region. Siem Reap, Cambodia. 24-25 October 2013.
- ii. Clean Cooking Forum 2013: Igniting Change, Fueling Markets and Sparking Adoption. March 18-22, 2013. Phnom Penh, Cambodia. Organized by Global Alliance for Clean Cookstoves.
- iii. Low Emissions Development Strategies (LEDS) Global Partnership *Learning and Leading on LEDS* workshop, held from February 27–March 1, 2013, Amari-Orchid, Pattaya, Thailand, Organized by LEDS Global Partnership Secretariat, NREL, USA.
- iv. ASEAN– EU Week on Science and Technology Cooperation. Organized by International Bureau of the Federal Ministry of Education and Research. Germany. 10-12, December 2012. Brussels.
- v. Third Regional Forum and Fourth Steering Committee Meeting of Energy Environment Partnership for Mekong Region. Hanoi, Vietnam. 20-21 November 2012.
- vi. Global Network on Energy for Sustainable Development (GNESD) Working Group and Expert Group Meeting. Copenhagen, Denmark. 29-30 May 2012.
- vii. Sixth UN-CECAR International Workshop on Strategic Planning. Pathumwan Princess Hotel, Bangkok, Thailand. Organized by University Network for Climate and Ecosystem Change Adaptation Research, Institute for Sustainability and Peace. United Nations University. 24-25 May 2012.
- viii. Sixth UN-CECAR International Conference on Renewable Energy. Chulalankorn University, Bangkok, Thailand. Organized by University Network for Climate and Ecosystem Change Adaptation Research, Institute for Sustainability and Peace. United Nations University. 22-23 May 2012.
- ix. Global Network on Energy for Sustainable Development (GNESD) Working Group and Expert Group Meeting. Vienna, Austria. 23-24 June 2011.
- x. Vienna Energy Forum. Organized by United Nations Industrial Development Organization (UNIDO). Vienna, Austria, 21-22 June 2011.
- xi. Sustainable Bio-energy Symposium. Organized by Food and Agriculture Organization. BITEC Conference Centre, Bangkok, 2 June 2011.
- xii. International Conference on Renewable Energy: Energy Security in 21st Century. Organized by Joint Graduate School for Energy and Environment (JGSEE). BITEC Conference Centre, Bangkok, 1 June 2011.
- xiii. World Energy Council (WEC) Asia regional conference and meeting. BITEC Conference Centre, Bangkok. 24 March 2011.
- xiv. Global Network on Energy for Sustainable Development (GNESD) Working Group and Expert Group Meeting. Cancun. Mexico. 5-8 December 2010.
- xv. Workshop and Field Trip. A cooperative project among APCTT-UNESCAP member countries on the commercialization of Technology in the Area of Jatropha Oil and Wood Pellet Machines and Tools. Chiangmai. Thailand. 28-30 April 2010.

3. Organization of training courses, conferences, seminars, and workshops.

- i. Towards Low Carbon Cities: Experience Sharing Workshop. Action Towards Resource-efficient and Low Carbon Cities in Asia. Asia Airport Hotel, Rangsit. 11-12 February 2013.

- ii. Technology Needs Assessment: Global Experience Sharing Workshop. 10-12 September 2012. Pullman Hotel. Bangkok.
- iii. International Training on Design and Management of Domestic Biogas Systems. 6 – 10th August 2012. Asian Institute of Technology.
- iv. Policy Dialogue on Urban and Peri Urban Energy Access. Novotel Hotel, Bangkok, Thailand. 6th March 2012.
- v. Second Regional Capacity Building Workshop in Asia on Barrier Analysis, Enabling Environment and Development of Technology Action Plan (2nd round countries), 21-24, February 2012. Novotel Hotel, Bangkok, Thailand.
- vi. Workshop on Urban and Peri-urban Energy Access and Development in Asia., Sofitel Centara, Bangkok. Thailand. 4th October 2011.
- vii. International Conference & Utility Exhibition 2011 on Power and Energy Systems: Issues and Prospects for Asia (ICUE 2011). Amari Hotel, Pattaya, Thailand. 28-30 September 2011.
- viii. First Regional Capacity Building Workshop in Asia for Technology Needs Assessment Project (2nd round countries). Bangkok, Thailand. 8 – 11 August 2011.
- ix. Training on “Territorial Climate and Energy Plan (TCEP)”, AIT. 18-21 May 2011.
- x. Seminar on Low Carbon Initiatives of Cities for GHG Mitigation and Adaptation to Climate Change. Sofitel Centara Grand Hotel, Bangkok, Thailand. 16-17 May 2011.
- xi. Second Training on “Bilan Carbone[®] Methodology and Tool for Calculating GHG Emissions”, AIT. 09-12 March 2011.
- xii. Second Regional Capacity Building Workshop in Asia on Barrier Analysis, Enabling Environment and Development of Technology Action Plan (1st round countries), 18-21 January 2011.
- xiii. Training on “Bilan Carbone[®] methodology and tool for calculating GHGs”, AIT. 5-9, January, 2011.
- xiv. Consultative Meeting on “Establishing a Regional Institutional Cooperation Mechanism to Promote Renewable Energy in Asia and the Pacific”. 7-8 October 2010. AIT
- xv. First Regional Capacity Building Workshop in Asia for Technology Needs Assessment Project (1st round countries). Bangkok, Thailand. 15 – 17 September 2010.
- xvi. Workshop on Masters in Energy Business Management (MEBM), 17 August 2010. Bangkok.
- xvii. Advisory Group Meeting for AIT – ADEME Project: Actions Towards Resource Efficient and Low Carbon Cities in Asia. 10 August 2010, Bangkok.
- xviii. International Conference on Energy and Sustainable Development: Issues and Strategies (ESD 2010). The Empress Hotel and Convention Centre, Chinagmai. Thailand. 2 -4 June 2010.
- xix. Training course on Energy Efficiency Using RETScreen. AIT. 11 May 2010.
- xx. National Workshop on Low Carbon Technologies for Thai Manufacturing Sectors. Bangkok. Thailand. 28 February 2010.

4. Editing or serving on advisory boards of journals

- i. Associate Editor – International Energy Journal, Published by Regional Energy Resources Information Center (RERIC), Asian Institute of Technology.
- ii. Reviewer – International Journal of Exergy
- iii. Reviewer – International Journal of Energy Policy
- iv. Reviewer - Fuel

5. Government or international organization panels, expert witness, reports to government or international agencies
 - i. Steering Committee Member – Energy Environment Partnership for Mekong Region (EEP – Mekong). From August 2012 to present.

VI. Industrial Experiences:

From April 2007 to September 2009 employed at Genesis Engineering and Technical Service Co. Ltd., Thailand, as a Engineering Manager cum General Manager.

Responsibilities:

- Providing guidance, leadership, mentoring and intervention as necessary to strengthen the discipline, quality, reliability and rigor of the engineering work.
- Technical engineering leadership and oversight for quality engineering design, execution and product safety for the portfolio of renewable energy, energy efficiency and heat recovery systems related products and services.
- Characterization of renewable energy technologies and study on the potential of renewable energy technologies and the barriers to their commercialization in Thailand Market.
- Technology transfer of energy efficient and environmentally sound technologies such as biomass fired fluidized bed boilers, heat recovery steam generators (HRSGs), solar thermal power plant etc. to the Thai market in technical collaboration with Thai and Non-Thai based companies.
- Identification of energy conservation opportunities and the estimation of its potential through energy auditing.
- Feasibility studies on the GHG emission reduction, and energy saving opportunities and potentials through fuel switching in various industries.
- Design of all kind of heat exchangers (i.e. air coolers, air heaters, shell and tube condensers, coolers etc.), dryers, ovens (Using the latest softwares such as Aspen Plus Engineering Suite and HTRI).
- Design of Heat recovery equipment and systems such as economizer and air to air heat exchanger.
- Design of pressure vessels as per the ASME pressure vessel design code, i.e. section VIII Div. 1 (Using the latest softwares such as PV Elite).

VII. Personal Statement

I certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience.