Detailed Program

DAY ONE: 28 March 2012			
13:30 - 14:30	Opening Ceremony & Keynote Addresses 1	Tubtim	
13:30 - 13:45	Introductory speech by Dr. Weerakorn Ongsakul, GMSARN Secretary General		
13:45 – 14:00	Welcome address by Assoc. Prof. Supat Sinawat, Assistant to the President for In Relations and Cooperation Strategy, Khon Kaen University, Khon Kaen City, Tha		
14:00 – 14:30	Keynote Address I: "Mekong Hydro Project Management" Dr. Subin Pinkayan, Chief Honorary Advisor, SEATEC (Southeast Asia Company Limited) Group of Companies & MDX Group of Companies, Bangkok, Seattle Companies & MDX Group of Compan		
14:30 – 14:45	Coffee / Tea Break		
14:45 – 17:30	Day One Parallel Sessions (Afternoon Session)		
14:45 - 17:30	ENERGY I	Tubtim	
	nan: Asst. Prof. Dr. Pornrapeepat Bhasaputra, Department of Electrical and Co	mputer	
0	aculty of engineering, Thammasat University, Pathumthani, Thailand	Tair	
E-01	The Optimal Combination of RVC-electrodes Coated with Catalytic Metal Ions in Fixed-biofilm Microbial Fuel Cells <i>Chun-Sheng Wu, Jau-Hang Du, and Pornpimol Ouichanpagdee</i>	Taiwan, ROC	
E-02	Development of Hydropower Projects at Irrigation Dams for Renewable Energy in Thailand Wiboon Pongtepupathum and Anuparp Wonglakorn	Thailand	
E-04	Economy-Wide Impacts on Energy Efficiency in Thai Sugar Industries	Thailand	
L-04	Paiboon Limpitipanich, Pawinee Suksuntornsiri, Warunee Tia, and Bundit Limmeechokchai	Tnanana	
E-05	Bio-Gasoline Production from Bio-Diesel via Catalytic Cracking Reaction on Platinum Zeolite Catalyst	Thailand	
E-10	Nantawat Usomboon, Malee Santikunaporn, and Suchada Butnart The Solar Power Plant planning for postponed Nuclear Power Plant in Thailand	Thailand	
	Vivat Chutiprapat, Wichit Krueasuk, Pornrapeepat Bhasaputra, and Woraratana Pattaraprakorn		
14:45 - 17:30	ENVIRONMENT I & SUSTAINABLE DEVELOPMENT I	Morrakot	
	nan: Asst. Prof. Dr. Chongchin Polprasert, Department of Sanitary Engineering	, Faculty	
Env-01	h, Mahidol University, Bangkok, Thailand Utilization of Silk Serisin and Powder Silk Sericin as Coagulant Aid for Turbidity Removal	Thailand	
	Sidxay Makvilay, Tassamorn Hlongsaman, Waritta Jaiman, Wipada Sanongraj, and Wipawee Khamwichit		
Env-02	An Investigation of Hg Deposition Using MM5/HYSPLIT-Hg: A Case Study on Contribution of Thermal Power Plants in Thailand Pham Thi Bich Thao and Savitri Garivait	Thailand	
Env-03	Estimation of Emission from Open Burning of Sugarcane Residues before Harvesting	Thailand	
Env-04	Kanittha Kanokkanjana and Savitri Garivait Structure and Carbon Storage in Aboveground Biomass of Mixed Deciduous Forest in Western Region, Thailand	Thailand	
Env-05	Ubonwan Chaiyo, Savitri Garivait and Kobsak Wanthongchai Quality Assessment of Soil and Rice from Good Agricultural Practice Rice	Thailand	

Env-06 Env-16 SD-01 SD-08	Crops Khin Moe Phyu, Pravate Tuitemwong, Kooranee Tuitemwong, Worapot Suntornsuk, and Panthira Ketkaew Determination of Carbon Equivalence in Municipal Solid Waste Management: A Case Study of Khon Kaen Municipality, Thailand Kampol Nanthapong and Chongchin Polprasert Emission of Formaldehyde from Particleboards Taddao Pahasupanan, Wipada Sanongraj, and Wipawee Khamwichit Barriers to Border Trade along the Southern Economic Corridor: A Case of Thai-Cambodia Trade on the Border of Srakaew Province Saran Ratanasithi and Pensri Jaroenwanit Cost-Benefit of Safe Vegetable in Rainy Season: Case Study for Small Scale Production in Khon Kaen Province, Northeast Thailand Pensri Jaroenwanit, Supatra Chadbunchachai, and Narawit Jaroenwanit	Thailand Thailand Thailand Thailand
18:30 -21:00	Reception Dinner	
	DAY TWO: 29 March 2012	
06:30 - 20:00	Technical Visit: Nam Ngum Dam 2 by Boat	
20100	, , , , , , , , , , , , , , , , , , ,	
	DAY THREE: 30 March 2012	
08:30 - 09.00	Keynote Address II: "The Mekong Basin: Environment and Development Challenge" Dr.Chavalit Vidthayanon, Senior Aquatic Ecology Specialist, Mekong River Commission, Vientiane, Lao PDR	Tubtim
09:00 - 12:00	Day Three Parallel Sessions (Morning Session)	
09:00 – 10:30 Session Chairm Graduate Schoo	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Ge ol of Engineering, (TGGS), King Mongkut's University of Technology North	
09:00 – 10:30 Session Chairm	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Ge ol of Engineering, (TGGS), King Mongkut's University of Technology North alnd Effects of Nearby Auxiliary Grounding Imposed on Main Square and Rectangle Ground Grids of Distribution Substation	erman
09:00 – 10:30 Session Chairm Graduate Schoo Bangkok, Thaia	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Geol of Engineering, (TGGS), King Mongkut's University of Technology North and Effects of Nearby Auxiliary Grounding Imposed on Main Square and Rectangle Ground Grids of Distribution Substation A. Phayomhom, T. Kasirawat, W. Pobporn, C. Pongsriwat, and A. Puttarach Base Oil Production from Hydrocracked Bottom Phomiwiwat Phungphan, Malee Santikunaporn and Kornthape	erman Bangkok,
09:00 – 10:30 Session Chairm Graduate Schot Bangkok, Thaia E-07	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Geol of Engineering, (TGGS), King Mongkut's University of Technology North and Effects of Nearby Auxiliary Grounding Imposed on Main Square and Rectangle Ground Grids of Distribution Substation A. Phayomhom, T. Kasirawat, W. Pobporn, C. Pongsriwat, and A.Puttarach Base Oil Production from Hydrocracked Bottom Phomiwiwat Phungphan, Malee Santikunaporn and Kornthape Prasirtsiriphan SF ₆ Capacitive Voltage Divider	erman Bangkok, Thailand
09:00 – 10:30 Session Chairm Graduate Schoo Bangkok, Thaia E-07	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Geol of Engineering, (TGGS), King Mongkut's University of Technology North alnd Effects of Nearby Auxiliary Grounding Imposed on Main Square and Rectangle Ground Grids of Distribution Substation A. Phayomhom, T. Kasirawat, W. Pobporn, C. Pongsriwat, and A.Puttarach Base Oil Production from Hydrocracked Bottom Phomiwiwat Phungphan, Malee Santikunaporn and Kornthape Prasirtsiriphan SF ₆ Capacitive Voltage Divider Cattareeya Suwanasri and Thanapong Suwanasri Touch Voltage Reduction in Distribution Substation by Compression Ratio Technique and Length Adjustment of Ground Rod in Two-Layer Soil	erman Bangkok, Thailand Thailand
09:00 – 10:30 Session Chairm Graduate Schoo Bangkok, Thaia E-07 E-08	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Geol of Engineering, (TGGS), King Mongkut's University of Technology North alnd Effects of Nearby Auxiliary Grounding Imposed on Main Square and Rectangle Ground Grids of Distribution Substation A. Phayomhom, T. Kasirawat, W. Pobporn, C. Pongsriwat, and A.Puttarach Base Oil Production from Hydrocracked Bottom Phomiwiwat Phungphan, Malee Santikunaporn and Kornthape Prasirtsiriphan SF ₆ Capacitive Voltage Divider Cattareeya Suwanasri and Thanapong Suwanasri Touch Voltage Reduction in Distribution Substation by Compression Ratio	erman Bangkok, Thailand Thailand Thailand
09:00 – 10:30 Session Chairm Graduate Schoo Bangkok, Thaia E-07 E-08 E-09 E-11 E-24	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Geol of Engineering, (TGGS), King Mongkut's University of Technology North and Effects of Nearby Auxiliary Grounding Imposed on Main Square and Rectangle Ground Grids of Distribution Substation A. Phayomhom, T. Kasirawat, W. Pobporn, C. Pongsriwat, and A.Puttarach Base Oil Production from Hydrocracked Bottom Phomiwiwat Phungphan, Malee Santikunaporn and Kornthape Prasirtsiriphan SF6 Capacitive Voltage Divider Cattareeya Suwanasri and Thanapong Suwanasri Touch Voltage Reduction in Distribution Substation by Compression Ratio Technique and Length Adjustment of Ground Rod in Two-Layer Soil W. Pobporn, D. Rerkpreedapong, and A. Phayomhom A Study on Tesla Turbine Performance of Organic Rankine Cycle Machine K. Thawichsri, V. Monyakul, S. Thepa, Ch. Jivacate, and K. Sudaprasert	erman Bangkok, Thailand Thailand Thailand Thailand Thailand
09:00 – 10:30 Session Chairm Graduate Schoo Bangkok, Thaia E-07 E-08 E-09 E-11 E-24	ENERGY II an: Asst. Prof. Dr. Thanapong Suwanasri, Sirindhorn International Thai-Geol of Engineering, (TGGS), King Mongkut's University of Technology North and Effects of Nearby Auxiliary Grounding Imposed on Main Square and Rectangle Ground Grids of Distribution Substation A. Phayomhom, T. Kasirawat, W. Pobporn, C. Pongsriwat, and A.Puttarach Base Oil Production from Hydrocracked Bottom Phomiwiwat Phungphan, Malee Santikunaporn and Kornthape Prasirtsiriphan SF6 Capacitive Voltage Divider Cattareeya Suwanasri and Thanapong Suwanasri Touch Voltage Reduction in Distribution Substation by Compression Ratio Technique and Length Adjustment of Ground Rod in Two-Layer Soil W. Pobporn, D. Rerkpreedapong, and A. Phayomhom A Study on Tesla Turbine Performance of Organic Rankine Cycle Machine K. Thawichsri, V. Monyakul, S. Thepa, Ch. Jivacate, and K. Sudaprasert	erman Bangkok, Thailand Thailand Thailand Thailand Thailand

Kasemsan Manomaiphiboon and Mega Octaviani

Improving Bioenergy Conversion of Market Waste

Thailand

Env-09

Env-10	Panatda Pibul, Sirintornthep Towprayoon, Pawinee Chaiprasert, and Saroch Boonyakitsombut Effect of Burnt and Un-burnt Rice Straw Incorporated on Direct Nitrous Oxide Emission from Irrigated Rice Field Tassanee Jiaphasuanan, Amnat Chidthaisong, and	Thailand
Env-11	SirintornthepTowprayoon Ketonization of Long Chain Esters over Metal Oxide Catalyst Siriporn Petlert, Malee Santikunaporn, and Suchada Butnart	Thailand
10:30 - 10:45	Coffee / Tea Break	
10:45 - 12:00	ENERGY III	Tubtim
Session Chairm	nan: Dr. Cattareeya Suwanasri, Department of Electrical and Computer Engi	ineering,
	neering, Naresuan University, Phitsanulok, Thaialnd	Th
E-06	Case Study of Ground Potential Rise on Two Neighboring Substations W. Pobporn and A. Phayomhom	Thailand
E-12	Study on Capacitance from Sweeping Time Measurement an Effect of I-V Curves of Amorphous Silicon PV Module	Thailand
	Nitikorn Silsirivanich, Dhirayut Chenvidhya, Krissanapong Kiratikara, Kobsak Sriprapha, Jaran Sritharathikhun, Chaya Jivacate, and Chamnan Limsakul	
E-13	The Optimal Design of Lighting System for Designated Office Building in GMS	Thailand
	Surasak Panjavaranont, Pornrapeepat Bhasaputra, Woraratana Pattaraprakorn, Kitti Tirawannavit, Chaiyapat Kumpeerakupt, Somkuan Rimsmutchai, Natapongkorn Pawanawichien, Wichit Krueasuk and Panupon Samerpark	
E-14	The Optimal Energy Management for Lighting of Bank in GMS countries Chaiyapat Kumpeerakupt, Somkuan Rimsmutchai, Pornrapeepat Bhasaputra, Woraratana Pattaraprakorn, Natapongkorn Pawanawichien, Surasak Tirawannavit, Kitti Tirawannavit, Panupon Samerpark, and Wichit	Thailand
E-15	Krueasuk A Study and design of Organic Rankine Cycle Machanine K. Thawichsri, V. Monyakul, S. Thepa, C. Jivacate and K. Sudaprasert	Thailand
10:45 - 12:00	SUSTAINABLE DEVELOPMENT II /	Morrakot
10.12 12.00	BIOTECHNOLOGY	Morranot
Session Chairm		
SD-02	Towards a Unified Strategy for the Economic Development of Indigenous Ethnobotanicals in the GMS, Via a Global Market Review and Best Practice Analysis Dominic Darbyshire	Thailand
SD-03	Strategic CSR for Thai Multinational Corporate in ASEAN Sirintorn Liengjindathaworn	Thailand
SD-04	Future of Functional Foods and Nutraceutical Products: The Challenge and Potential of Thailand to ASEAN Pornpirat Kantatasiri	Thailand
SD-05	Development Dynamics in the Greater Mekong Sub-Region – Trans- Boundary Routes of Human Insecurity – Gianluca Bonanno	Japan
Bio-01	Comparison on Cultivation of Lentinus polychrous Lev. on Log of 5 Species of Tree Somchai Rattanamalee	Thailand
12:00 - 13:00	Lunch	
13:00 – 13.30	Keynote Address III: "Smart Grid Initiative and Roadmap in	Tubtim

Thailand" Mr. Weerachai Koykul, Deputy Governor (Network Operation), PEA, Bangkok, Thailand

13:30 – 15:00	Day Three Parallel Sessions (Afternoon Session)	
13:30 - 15:00	ENERGY IV	Tub
Session Chairm	nan: TBC	
E-16	Economic Rent from Hydropower Development In the Case of Lao PDR Chansaveng Boungnong and Daovong Phonekeo	Laos
E-17	Production of Synthetic Hydrocarbons from Palm Oil	Thailan
E-18	Tattep Techopittayakul, Malee Santikunaporn, and Suchada Butnart A Cheap Synthetic Route to Commercial Ruthenium N3 Dye for Sensitizing Solar Cell Applications	Thailar
E-19	Yuranan Thathong, Kittiya Wongkhan, and Rukkiat Jitchati Applications LED Lamps for Lighting System in the Thailand Convenience Stores	Thailar
E-20	Kitti Tirawannavit, Panupon Samerpark, Wichit Krueasuk, Pornrapeepat Bhasaputra, and Woraratana Pattaraprakorn Communication Disaster Recovery in Thailand Kreingkrai Chongkhanpond, Pornrapeepat Bhasaputra, Woraratana	Thailar
E-23	Pattaraprakorn, Somkuan Rimsamutthai, and Wichit Krueasuk Sliding Mode Control Using Particle Swarm Optimization Technique Somporn Tiacharoen	Thailar
E-25	The Optimal Energy Management of Hybrid Cooling System for Telephone Exchange in Thailand	Thailar
	Somkuan Rimsmutchai, Pornrapeepat Bhasaputra, Woraratana Pattaraprakorn, Natapongkorn Pawanawichien, Surasak Panjavaranont, Chaiyapat Kumpeerakupt ,Kitti Tirawannavit and Wichit Krueasuk	
13:30 - 15:00	ENVIRONMENT III	Morra
	nan: Mr. Cherid Kalayanamitr, Chief of Environmental Impact Assessment Immental Division, Electricity Generating Authority of Thailand (EGAT), Tha	
Env-12	Removal of Methyl Orange from Synthetic Wastewater onto Chitosan-Coated-Montmorillonite Clay in Fixed-Beds C. Umpuch and S. Sakaew	Thailar
Env-13	Recycling Solid Plastic Waste: A Review of Property Improvements Tianmanee Weerasak, Sompop Sanongraj, Wipada Sanongraj, and Adun Janvalertadun	Thailar
Env-14	Comparision of Characteristics and Qualities of Pyrolytic Oil and Distilled Pyrolytic Oil from Municipal Plastic Wastes Case Study: Warinchamrap Municipality	Thailar
	Rungnapa Tubnonghee, Sompop Sanongraj, Wipada Sanongraj,and Adun Janvalertadun	
Env-15	Alternative Fuels and Their Roles on Surface Ozone: A Case Study of Chon Buri City, Thailand	Thailai
T 40	Thayukorn Prabamroong, Kasemsan Manomaiphiboon, Chatinai Chusai, and Sirapong Sooktawee	
Env-19	Effect of Calcination Temperature on Strength and Microstructure of Synthetic Geopolymer from Water Treatment Residue N. Waijarean, S. Asavapisit and K. Sombatsompop	Thailar
15:00 – 15:15	Coffee / Tea Break	
10.00 10.10		
15:15 – 17:00	ENVIRONMENT IV / NRM	Tub

Env-17	Arsenic Contamination in Environment in Gold Mine Vicinity	Thailand
E 10	Thanes Veerasiri, Wanpen Wirojanagud, and Thares Srisatit	7F1 :1 1
Env-18	Green Organization Model from Life Cycle Assessment of Hard Disk Drive	Thailand
NDN 6 04	Jitti Nimnuch, Vorapoch Angkasith, Dhirananta Rithmanee	m
NRM-01	Drought Index Prediction Model for Khon Kaen Province	Thailand
	Titinun Pongnam and Vichian Plermkamon	
NRM-02	Coastal Residents and Coastal Erosion: Socio-Demographic Characteristics and Patterns of Response	Australia
	Chatchai Intatha, Pierre Horwitz, and Andrea Hinwood	
5:15 – 17:00	SUSTAINABLE DEVELOPMENT III /	Morrakot
	MECHANICAL ENGINEERING	
Session Chairn	nan: Assoc. Prof. Dr. Wanpen Wirojanagud, Department of Environmental I	Engineering.
	neering, Khon Kaen University, Khon Kaen, Thailand	
SD-06	The Establishment of Sustainable Competitive Advantage of Rice Exporter	Thailand
	through ASEAN's Market: A Case Study	
	Tawamin Kruasom	
SD-07	Are We Walking Hand in Hand? The Case of AEC: Accounting	Thailand
~- **	Harmonization in Measurement Practices	
	Napaporn Likitwongkajon	
SD-09	Community Participation on Water Resource Conflict Management of the	Thailand
55 07	Pong Watershed	1770770770
	Chanya Apipalakul, Wanpen Wirojangud, and Srirat Suwannakom	
SD-10	Thai Alcoholic Beverage and ASEAN Economics Community	Thailand
52 10	Jarun Bootdachi and Sirirak Khaochaimaha	1 manunu
	on an Domacia and Strick Endocualitati	

Combustion Characteristics of a Dual Fuel Compression Ignition Engine

Pisarn Sombatwong, Prachasanti Thaiyasuit and Kulachate Pianthong

Operation with Pilot Diesel Fuel and Producer Gas

Closing Remark by Assoc. Prof. Dr. Weerakorn Ongsakul, GMSARN Secretary General Thailand

Tubtim

ME-01

17:00 - 17:15