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Technical Program



TMETC
15th Thailand
Metallurgy
Conference

& TCPC2025

The 5th International Thailand Corrosion
Prevention and Control Conference

**Academic-Industrial Linkage Towards
Innovative Metallurgy & Emerging Applications**

Co-located with



November 20-21, 2025

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TCPC2025

The 5th International Thailand Corrosion
Prevention and Control Conference

**20-21
November 2025**
BITEC Bangkok, THAILAND

DAY 1

Thursday, 20 November, 2025 (I)

Room	Silk 1-4
08:00 – 09:00	Registration
09:00 – 09:05	Welcome Address Mrs. Varaporn Dhamcharee Managing Director of RX BITEC
09:05 – 09:10	Welcome Address Assoc. Prof. Dr. Toemsak Srihirin Executive Director of National Metal and Materials Technology Center, National Science and Technology Development Agency
09:10 – 09:20	Welcome Address Mr. Li Chuanying Deputy Director of China-Thailand "Belt&Road" Joint laboratory on Rail transport CRRC Qingdao Sifang Co., Ltd."
09:20 – 09:30	Opening Remarks Prof. Dr. Yuttanant Boonyongmaneerat Director of Metallurgy and Materials Science Research Institute (MMRI), Chulalongkorn University
09:30 – 09:40	Opening Remarks Prof. Dr. Sukit Limpijumnong President of National Science and Technology Development Agency (NSTDA)
09:40 – 09:45	Group Photo
09:45 – 09:55	Presenting Thailand Metallurgist and Young Metallurgist Awards Asst. Prof. Suvanchai Pongsugitwat Head of the Department of Metallurgical Engineering, Faculty of Engineering, Chulalongkorn University
09:55 – 10:05	Presenting recognition souvenirs to TMETC-15 & TCPC2025 sponsorships Dr. Ekkarut Viyanit President of Thai Corrosion of Metals and Materials Association Principal Researcher of Rail and Modern Transports Research Group, National Metal and Materials Technology Center (MTEC), National Science and Technology Development Agency (NSTDA)
10:05 – 10:10	Group Photo
Session Chair	Dr. Ekkarut Viyanit National Metal and Materials Technology Center (MTEC)
10:10 – 10:40	Plenary Lecture 1 (PL-01): Bridging Science and Industry: Data-Driven Strategies for Reliable Operation in High-Corrosivity Environments Dr. Matina Thammachart Specialist, Corrosion and Manager, Materials and Corrosion Section, Facility Engineering Department, Engineering Technical Solutions Division PTT Exploration and Production Public Company Limited
10:40 – 11:00	Coffee Break
Session Chair	Dr. Anchalee Manonukul National Metal and Materials Technology Center
11:00 – 11:30	Plenary Lecture 2 (PL-02): Roles of the Metallurgist in Impacting Industries: from atomic diffusion kinetics to structural analysis, from pico-liter soldering to micro-liter additive laser manufacturing, from jewelry investment casting to Tesla giga-casting, and from thermodynamic simulations to AI- and machine learning driven alloy formulation and implants design Assoc. Prof. Dr. Boonrat Lohwongwatana Thailand Metallurgist (TMETC-14) Department of Metallurgical Engineering, Faculty of Engineering, Chulalongkorn University
11:30 – 12:00	Plenary Lecture 3 (PL-03): Advanced Electroplating Solutions for New Energy Applications Dr. Jiaqian Qin Young Metallurgist (TMETC-14) Department of Materials Science, Faculty of Science, Chulalongkorn University
12:00 – 13:30	Lunch

DAY 1 Thursday, 20 November, 2025 (II)

Room	Silk 1	Silk 2	Silk 3	Silk 4
Session	Energy Industry I	Infrastructure & Construction I	Manufacturing & Process Industries I	Manufacturing & Process Industries II
Session Chair	Dr. Amnuaysak Chianpairot National Metal and Materials Technology Center	Dr. Pinai Mungsantisuk Thai Marine Protection Co., Ltd.	Dr. Anchalee Manonukul National Metal and Materials Technology Center	Assoc. Prof. Dr. Patama Visuttiptitukul Chulalongkorn University
13:30 – 13:50	Keynote Lecture 1: Assessment of a Temporary Valve Used in the Recycle Gas Compressor Loop (Sour Service) in the Hydrocracking Unit Adisorn Poohsai Thai Oil Public Company Limited	Keynote Lecture 2: Managing corrosion & plant ageing management Dr. Pongpat Lortrakul Rayong Engineering and Plant Service Company (REPCO NEX)	Keynote Lecture 3: Advances in Industrial Shot Peening: In-Line Evaluation and Residual Stress Optimisation for Enhanced Fatigue Life Dr. Yuji Kobayashi SINTOKOGIO, LTD., Japan	Keynote Lecture 4: Multi-scale Assessment and Prediction of Metal corrosion – Introduction of the Corrosion Assessment and Prediction Laboratory (CAPLab) Prof. Dr. Ying Jin National Center for Materials Service Safety (NCMS), University of Science and Technology Beijing (USTB), China
13:50 – 14:10	Invited Lecture 1: Corrosion Mechanisms in Marginal Sour (CO ₂ /H ₂ S) Environment with Correlation of H ₂ S in Aqueous State Assoc. Prof. IR. Dr. Najmiddin Yaakob Faculty of Chemical Engineering, University Teknologi, MARA (UiTM), Malaysia	Invited Lecture 2: Weathering Steel Exposure Test in Thailand: Long-term Corrosion Kinetics and Machine Learning on Bi-electrode Sensor Data Dr. Wanida Pongsaksawad National Metal and Materials Technology Center	Invited Lecture 3: Surface Engineering of Mg-8Al-4Ca Non-Flammable Magnesium Alloy: Second Phase Effect on Conversion and MAO Treatments Prof. Yueh-Lien Lee IDepartment of Engineering Science and Ocean Engineering, National Taiwan University, Taiwan	Invited Lecture 4: Hydrogen Effects in Steels and SS Steels and Their Impacts on Service Safety of Hydrogen Pipings and Vessels Prof. Dr. Wenyue Zheng National Center for Materials Service Safety (NCMS), University of Science and Technology Beijing (USTB), China
14:10 – 14:30	Invited Lecture 5: Influence of High Temperatures and Off-Design Operating Conditions on the Degradation of Grate Blocks in a Refuse-Derived Fuel (RDF) Boiler Siriwan Ouampan National Metal and Materials Technology Center	Invited Lecture 6: Galvanized Reinforcing Steel and Sacrificial Anode Cathodic Protection to Prevent Corrosion of Reinforced Concrete Structure Dr. JIN Junjun CRRC Qingdao Sifang Co.,Ltd.	Invited Lecture 7: Stainless Steel Selection Tool For Water Application: Pitting Engineering Diagrams Dr. Tracy Deng Technical Sales, Growth Regions Outokumpu Stainless AB, Sweden	Invited Lecture 8: Corrosion Behavior of Metal Materials in Simulated High-temperature Flue Gas Environment Prof. Dr. Felfei Huang National Center for Materials Service Safety (NCMS), University of Science and Technology Beijing (USTB), China
14:30 – 14:50	A-O-38 The Impact of Sulphate-Reducing Bacteria on Corrosion and Reservoir Souring in Hydrocarbon Systems Dr. Naruphorn Dararatan PTT Exploration and Production Public Company Limited	Invited Lecture 9: New Generation of Sacrificial Anodes for Reinforced Concrete Hadi Beirami J.S.T. Services Company Limited, Italy	Invited Lecture 10: CUPS (Corrosion Under Pipe Support) Total Solutions Taywin Buasri, D.Eng Senior Researcher Innovation Growth Platform Vittawas Bunjang Pipeline Integrity Solution / Ultrasonic testing service GC Maintenance and Engineering Company Limited	C-O-30 Corrosion Behaviors of Thermally Sprayed Nickel Alloy Surface Coatings for Use in Maintenance Industry Dr. Aradchaporn Srichen Doctor of Philosophy Program in Nanoscience and Nanotechnology, Faculty of Science, Chiang Mai University
14:50 – 15:30	Coffee Break			



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DAY 1

Thursday, 20 November, 2025 (III)

Room	Silk 1	Silk 2	Silk 3	Silk 4
Session	Energy Industry I	Infrastructure & Construction II	Manufacturing & Process Industries III	TCMA Awards
Session Chair	Dr. Pitichon Klomjit Chulalongkorn University	Dr. Wanida Pongsaksawad National Metal and Materials Technology Center Dr. Woraphan Intaphan Faculty of Engineering, Burapha University	Asst. Prof. Dr. Panyawat Wangyao Chulalongkorn University	Asst. Prof. Dr. Chalyasit Banjongprasert Chiang Mai University
15:30 – 15:50	Invited Lecture 11: The Evolution of Pipeline Top of the Line Corrosion Management: Leveraging Volatile Corrosion Inhibitor for Pipeline Longevity Suchada Punpruk Senior Engineer, Quality Assurance and Quality Control PTT Exploration and Production Public Company Ltd.	Invited Lecture 12: Innovations in predictive design and assessment of geothermal systems Dr. Kathleen Purnell Institute of Corrosion, University of Leeds, UK	Invited Lecture 13: Innovative Coating Materials for Corrosion Prevention in Industrial Applications Dr. Phairat Phiriyawirut Senior R&D Manager, Central Research and Development, SCG Chemicals Public Company Limited	A-O-12 The effect of temperature on corrosion of bismuth-40tin alloys in 3.5 wt.% NaCl solution Chanin Tangpongkitjaroen Department of Metallurgical Engineering, Faculty of Engineering, Chulalongkorn University
15:50 – 16:10	Invited Lecture 14: Comparison Between Existing Deep-Well Anodes and Distributed Anode Design with Multiple Controllers for Cathodic Protection Upgrade in Petrochemical Plant Chatchai Wongchaleeo GC Maintenance and Engineering Company Limited	Invited Lecture 15: Selecting proper steel grade for different environmental conditions Dr. Tracy Deng Technical Sales, Growth Regions Outokumpu Stainless AB, Sweden	C-O-4 Fabrication of Aluminium Foams Using Coated and Uncoated Oyster Shell Foaming Agents Laksika Usuwan Department of Metallurgical Engineering, Faculty of Engineering, Chulalongkorn University	B-O-39 A Natural Approach to Preventing Aluminum Corrosion: Role of Clitoria Ternatea (Shankpushpi) Plant Extract in Acidic Environments Adarsh Patel Department of Chemistry, Sir P.T. Sarvajani College of Science, India
16:10 – 16:30	Invited Lecture 16: Crevice Corrosion Behavior of Rail Steel Grade U900A by Corrosion Monitoring Sensor and Coupons at Lampang Environment Pranpreeya Wanglina National Metal and Materials Technology Center	Invited Lecture 17: Enhancing Corrosion Protection in Aboveground Storage Tanks with Vapor Phase Corrosion Inhibitors Trevor Goss J.S.T. Services Company Limited, Italy	C-O-6 Investigating the plastic deformation mechanisms of a twinning-induced plasticity steel using advanced transmission electron microscopy Jesada Punyafu Materials Science Research Center, Chiang Mai University and Institute for Materials Chemistry and Engineering, Kyushu University, Japan	C-O-8 Advanced Zn-Al-Mg Protective Coating for PV Mounting Structures in Harsh Atmospheric Environments S. F. Chou National Taiwan University of Science and Technology and Industrial Technology Research Institute, Taiwan
16:30 – 16:50	A-O-13 Implementation of High Velocity Thermal Spray for Reliability Improvement of Asset Critical Equipment Thanit Kenhong Integrated Global Services	Invited Lecture 18: Difficulties in Achieving Electrical Isolation for Pipeline Cathodic Protection Trevor Goss J.S.T. Services Company Limited, Italy	C-O-16 Comparative study of Frictional Behavior of Cr-doped and Al:Ti-doped DLC coatings on AISI 4140 Nattapol Pinttraratibodee Metallurgy and Materials Science Research Institute, Chulalongkorn University	C-O-34 Optimizing Recycled Hypereutectic Al-4Fe Alloys for Superior Mechanical and Corrosion Properties through Ultrasonic Melt Processing Tawatchai Tangsuksan Department of Industrial Engineering, School of Engineering, King Mongkut's Institute of Technology Ladkrabang
16:50 – 17:10	A-O-23 Stabilizing Zinc Anodes in Zinc-Air Batteries Through Optimized Operating Parameters Ramin Khezri Metallurgy and Materials Science Research Institute, Chulalongkorn University	Invited Lecture 19: Advanced Remote Monitoring Solutions: Merging High-Frequency Data Logging with Edge Computing for Enhanced Cathodic Protection Analysis Trevor Goss J.S.T. Services Company Limited, Italy	C-O-18 Silicon Carbide Effects on the Microstructure and Mechanical Properties of Sintered Diffusion-Bonding Alloyed Fe-Mo-Cu Patiparn Ninpetch Department of Industrial Engineering, Faculty of Engineering, Rajamangala University of Technology Thanyaburi	X-X-X Mechanistic Investigation of the Corrosion Behavior of Oil Casing Steel Governed by Microstructural Features Wenyue Zhang National Center for Materials Service Safety (NCMS), University of Science and Technology Beijing (USTB), China
17:10 – 17:30	A-O-31 Microstructural Characterization and Electrochemical Performance of Fine-Grained Aluminum Anodes Processed by Friction Stir for Aluminum-Air Batteries Dr. Suphitcha Moonngam Office of Research Administration and Department of Physics and Materials Science, Chiang Mai University	X-X-X Innovative Titanium Applications In Chlor-alkali - Balancing Cost And Durability For Industrial Success Thanaphon Vansanit Prolog Titanium Corporation Co., Ltd.	C-O-19 Effects of Pre-Treatment and Leaching Parameters on the Dissolution of Valuable Metals from Cathode Active Materials of Li-ion Batteries Patiparn Ninpetch Department of Industrial Engineering, Faculty of Engineering, Rajamangala University of Technology Thanyaburi	X-X-X Study on The Influence of Surface Microstructure and Chemical Configuration of Ni-Zn-P Coating on Its Hydrogen Permeation Behavior Yi Qin National Center for Materials Service Safety (NCMS), University of Science and Technology Beijing (USTB), China
18:00 – 20:00	Banquet			



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DAY 2 Friday, 21 November, 2025 (I)

Room	Silk 1-4			
Session Chair	Dr. Ekkarut Viyanit President of Thai Corrosion of Metals and Materials Association Principal Researcher of Rail and Modern Transports Research Group, National Metal and Materials Technology Center (MTEC), National Science and Technology Development Agency (NSTDA)			
09:00 - 09:30	Plenary Lecture 4 (PL-04): Outlook of Emerging DLC and Diamond Related Coating Materials for Manufacturing Industries Dr. Da Yung Wang Aurora Scientific Siam Corporation Ltd., Thailand			
09:30 - 10:00	Plenary Lecture 5 (PL-05): Corrosion Control and Passivation Quality Evaluation Method for Stainless Steel Rail Vehicles Dr. SUN Xiaoguang CRRC Qingdao Sifang Co.,Ltd.			
10:00 - 11:30	Poster Session, Networking and Coffee Break			
Room	Silk 1	Silk 2	Silk 3	Silk 4
Session	Energy Industry III	Transportation & Logistics I	Manufacturing & Process Industries IV	POSCO-Thainox Metallurgy Awards I
Session Chair	Mr. Attapong Terdpravat, Thai Corrosion of Metals and Materials Association and Integ Co., Ltd.	Dr. Tongjai Chookajorn National Metal and Materials Technology Center	Asst. Prof. Dr. Sirichai Leelachao Chulalongkorn University	Asst. Prof. Dr. Nithi Saenarjhan Chulalongkorn University
11:30 - 11:50	Invited Lecture 20: The Nautilus Robotic Solution: A Single Robot that Integrates Inspection, Maintenance, Repair Capabilities for Subsea Pipelines and Tubulars Phongpat Binsomprasong Robotics Company Limited	Keynote Lecture 5: Research and Application of Anti-Sand and Rain Erosion Coatings GUI Taijiang CRRC Qingdao Sifang Co.,Ltd.	C-O-20 Green Synthesis of Tin Oxide Nanoparticles from Soldering Waste using Orange Peel Extract Sirunya Somla Innovative Processing and Recycling of Metals Research Center, School of Metallurgical Engineering, Institute of Engineering, Suranaree University of Technology	C-O-28 Manufacturing Pathways and Peening Synergy: Effects of Initial Surface Quality, Shot Media, and Peening Parameters on MIM and MEX 17-4PH Stainless Steel Phatthira Thammachob Department of Physics and Materials Science, Faculty of Science, Chiang Mai University and National Metal and Materials Technology Center
11:50 - 12:10	Invited Lecture 21: Next-Generation Boiler Water Management in Flexible Power Operations Naphol Klansorn Electricity Generating Authority of Thailand	Invited Lecture 22: Development and Engineering Application of MXene-based Anti-corrosion/Wear Resin Coating Prof. FAN Xiaoqiang CRRC Qingdao Sifang Co.,Ltd.	C-O-21 Development of an Optimized Medium for Bioleaching of Lithium Cobalt Oxide Cathode Powder using Penicillium sp. Strain JMET 24 Thanapon Chandakhiaw Innovative Processing and Recycling of Metals Research Center, School of Metallurgical Engineering, Institute of Engineering, Suranaree University of Technology	C-O-32 The Influences of Steel Matrix and Composition on The Behavior of Nitrocarburizing White Layer Suphannika Kaewkantha Chulalongkorn University
12:10 - 12:30		Invited Lecture 23: Research on Ultrasonic Method for Online Monitoring of Corrosion Status in High-Speed Train C-Type Grooves Dr. JIN Junjun CRRC Qingdao Sifang Co.,Ltd.	C-O-22 Surface quality and wear performance of 316L stainless steel fabricated by MIM and MEX: effects of shot peening Aphichat Sakkaeo National Metal and Materials Technology Center	B-O-37 Hybrid Interface Effect of g-C ₃ N ₄ /ZnO Nanocomposites on the Protection of 304 Stainless Steel in Corrosive Aqueous Solution Htet Yadanar Soe Special Research Unit for Biomass Conversion Technology for Energy and Environment, Department of Materials Engineering, Faculty of Engineering, Kasetsart University
12:30 - 13:30	Lunch			



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DAY 2 Friday, 21 November, 2025 (II)

Room	Silk 1	Silk 2	Silk 3	Silk 4
Session	Special Session	Transportation & Logistics II	Manufacturing & Process Industries V	POSCO-Thainox Metallurgy Awards II
Session Chair		Asst. Prof. Suvanchai Pongsugitwat, Chulalongkorn University	Asst. Prof. Dr. Panyawat Wangyao Chulalongkorn University	Asst. Prof. Dr. Nithi Saenarjhan Chulalongkorn University
13:30 – 13:50	Special Session on "I Am ผู้ AI : วิศวกรในก้าวใหม่แห่งอนาคต – ใครจะขึ้นขบวน หรือถูกรถ" Dr. Chatchai Somsiri Advisor, MENAM Stainless Wire Public Co., Ltd. ศาสตร์ของโลหะวิทยาซึ่งมีประวัติยาวนานนับพันปี ได้ผ่านการพัฒนามาอย่างต่อเนื่องจากการอาศัยแรงงานและการคาดเดาสู่การเป็นวิทยาศาสตร์ จากระบบแอนะล็อกสู่ยุคดิจิทัลและการกำเนิดของคอมพิวเตอร์ที่ทำให้การคำนวณซับซ้อนกลายเป็นเรื่องง่ายและในวันนี้ จากระบบ I AM เรากำลังก้าวเข้าสู่ยุคแห่งการพัฒนาที่ขับเคลื่อนด้วย ปัญญาประดิษฐ์ (AI) ซึ่งกำลังสร้างการเปลี่ยนแปลงครั้งใหญ่ทั้งในแวดวงการศึกษาและอุตสาหกรรมการผลิต ผู้ที่สามารถคว้าโอกาสและก้าวทันกระแส AI ได้ จะเป็นผู้ที่ประสบความสำเร็จและสร้างความเหลือล้นให้กับผู้ที่ตามไม่ทัน ด้วยความเร็วที่ไม่เคยเกิดขึ้นมาก่อนในประวัติศาสตร์	Invited Lecture 24: The behavior of hydrogen absorption into high-strength steel sheet under atmospheric corrosion environment Dr. Shinji Ootsuka JFE steel corp., Japan	C-O-24 Effect of Heat Treatment on Multi-Material Additive Manufacturing (MMAM) Fabricated by Selective Laser Melting (SLM) via Non-Destructive and Destructive Test Farhana Mohd Foudzi Advanced Manufacturing Research Group and Department of Mechanical and Manufacturing Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, Malaysia	C-O-25 Behavior of compound layer formation in nitrocarburizing process on gray cast iron standards JIS G5501 FC150 Chairek Pinukram Thai Tohken Thermo Co.,Ltd. and Chulalongkorn University
13:50 – 14:10		Invited Lecture 25: Thai Railway Innovations: From Research to Real-World Application Supporting the Sustainable North Dr. Narin Jantaping Rajamangala University of Technology Lanna	C-O-35 Microstructural Evolution and Property Enhancement in ADC12 Aluminum Alloys by Mn and Ce Additions Anuchit Masthong Department of Industrial Engineering, School of Engineering, King Mongkut's Institute of Technology Ladkrabang	C-O-26 Influence of Gas Nitrocarburizing and Solution Nitriding on the Microstructure and Mechanical Properties of SUS430 Stainless Steel Tanabodee Praditja Thai Tohken Thermo Co.,Ltd. and Chulalongkorn University
14:10 – 14:30	ลัทธิของสนทนาวาทะ: แบ่งปันประสบการณ์ผู้เดินทางอาชีพแห่งอนาคต เสวนาแลกเปลี่ยนมุมมองจากอาจารย์ผู้ทรงคุณวุฒิด้านโลหวิทยา ผู้เชี่ยวชาญจากภาคอุตสาหกรรม และศิษย์เก่าโลหวิทยา ร่วมสำรวจแนวโน้มและโอกาสของสายอาชีพโลหวิทยา แบ่งปันประสบการณ์จริงจากการทำงาน พร้อมแนะแนวทางการเตรียมความพร้อมสู่เส้นทางอาชีพ	Invited Lecture 26: การประยุกต์ใช้ NDT เพื่อช่วยยกระดับการตรวจสอบความปลอดภัยรถโดยสารสาธารณะ Kanidpong Banditsaowapark Automotive Engineering Bureau Department of Land Transport	X-X-X Sucker Rods with Enhanced Resistance to Hydrogen Embrittlement Prof. Dr. Wenyue Zheng National Center for Materials Service Safety (NCMS), University of Science and Technology Beijing (USTB), China	C-O-27 Adhesion Performance of DLC Coating on SUJ2 Steel Hardened by Atmosphere controlled and Vacuum Controlled Process Manusavee Taksadej Thai Tohken Thermo Co., Ltd. and Chulalongkorn University
14:30 – 14:50	ผู้ร่วมเสวนา 1. นายวิกรม วัชรกุลปติ กรรมการบริหาร สภาอุตสาหกรรมแห่งประเทศไทย 2. นายพัฒนศักดิ์ อุณหภูม ประธานกิตติมศักดิ์ กลุ่มอุตสาหกรรมเครื่องจักรกลการเกษตร สภาอุตสาหกรรมแห่งประเทศไทย 3. นายสุพจน์ สุพพิศาล ประธานกลุ่มอุตสาหกรรมชิ้นส่วนและอะไหล่ยานยนต์ สภาอุตสาหกรรมแห่งประเทศไทย 4. นายรณิต เคนหงส์ บริษัท เทน เมคเคนิค เอ็นจิเนียริง จำกัด ดำเนินรายการโดย รศ.ดร.ปัทมรัตน์ พันธุบรรณก นักวิชาการอิสระ	Invited Lecture 27: Recommendations for New Rail Inspection and Storage Siam Kaewkumsai National Metal and Materials Technology Center	X-X-X Dual Effects of Hydrogen Charging on Passive Film Stability and Corrosion Resistance of Ti-6Al-4V Alloy Dr. Shuhui Chen National Center for Materials Service Safety (NCMS), University of Science and Technology Beijing (USTB), China	X-X-X The Effects of Aging on Microstructure and Corrosion Resistance of AISI 201 J1 Stainless Steel Putthipong Namwol Faculty of Engineering, Chulalongkorn University
14:50 – 15:30	Coffee Break			
Room	Silk 1-2			
15:30	Awarding and Closing Ceremony			