



## Program of the 15<sup>th</sup> SCA Conference in Siem Reap City, Angkor

Venue: Angkor Paradise Hotel, Siem Reap City, Kingdom of Cambodia

**15 May 2015, Friday**

Time	Program	Venue
8:00 -	Registration	
<b>SCA International Symposium (DAY 1)</b>		
8:30-9:00	<b>Welcome remark</b> Dr. Vijaya KUMAR, President of Science Council of Asia (SCA) <b>Opening ceremony by H.E. Dr. Hang Chuon Naron</b> , Minister of Education, Youth and Sport, Kingdom of Cambodia	Bayon Ballroom
9:00-10:00	<b>Plenary session I Chair by Dr. Vijaya KUMAR</b>  <b>Keynote 1:</b> Potential Challenges for the Idea of Harmony of a Communal Society and Nature Learnt from Egypt and Angkor, Director Prof. Takeshi NAKAGAWA, Open Air Museum MEIJI-MURA, Japan  <b>Keynote 2:</b> Uncovering Human Past Using Medical Imaging Science and Technology, Prof. Dr. Rethy CHHEM, Executive Director for CDRI, Cambodia	Bayon Ballroom
10:00-10:20	Break	
10:20-12:00	<b>PARALLEL SESSION A</b>	Room
<b>Group I:</b>	<b>Title: Preservation of Cultural Heritage and Disaster Prevention</b> <b>Co-chairs: H.E. Mak Ngoy and Prof. Masako YONEDA</b>  <ol style="list-style-type: none"> <li>Global Sharing of the Findings from the Past Great Earthquake Disasters in Japan Promoted by Science Council of Japan and 30 Academic Societies' Liaison, Masako YONEDA</li> <li>The South Nias people in Frame of Disaster Preparedness (Study on Audio Visual Documentary "The Prepared Ones", Dyah Rachmawati SUGIYANTO</li> <li>Reconsideration and Revelation of the Relationship among Big Events, Preservation and Urbanization in the Context of Metabolism Concept, Xinpeng WANG</li> <li>Methodology to Evaluate the Urban Spatial Characteristics of Traditional Cities by Watershed-Based Analysis, Luong LIM</li> <li>The Origin of Khmer City Structure by Comparison of Vat Phu and Preah Vihear, Chihiro KUROIWA</li> <li>Did the Heritage System Benefit the Municipality? Case of Noto with the GIAHS applying Quantitative Approach to Assembly Records and Agricultural Products, Yuta Uchiyama</li> <li>Central Tower N1 of Prasat Sambor, Sambor PreiKuk Monument, Sokuntheary So</li> </ol>	Bayon Ballroom
<b>Group II</b>	<b>Title: The Food, Health and Environmental Preservation in the Era of Changing Climate</b> <b>Co-chairs: Dr. HOR Peng and Prof. Shinji TSUKAWAKI</b> <ol style="list-style-type: none"> <li>Assessment of Rice Water Requirement by Using CROPWAT Model,</li> </ol>	

	<p>SONG Layheang</p> <ol style="list-style-type: none"> <li>2. Assessment of Driller Perceptions on Groundwater Resources in the Mekong Tonle-Sap Floodplain of Cambodia, Marith MONG</li> <li>3. Climate Change and Water Governance in Stung ChreyBak Catchment of TonleSap Great Lake Basin in Cambodia, Sarann LY</li> <li>4. Local Resident Perceptions of Eco-Cultural Tourism Impacts toward Sustainable Development: Evident from Selected Attractive Tourist Destinations in Cambodia, Sopheap HENG</li> <li>5. Metals Assessment in Edible Vegetables from Different Regions in Cambodia, Pisith SOK</li> </ol>	Kravan
<b>Group III</b>	<p><b>Title: Sustainable Development and the Use of Energy</b>  <b>Co-chairs: Dr. Po Kimtho and Mr. Masakazu SATO</b></p> <ol style="list-style-type: none"> <li>1. Developments and Prospects of Smart Cities in Japan, Satoshi KAKIUCHI</li> <li>2. The Introduction Strategy of Greenlease for the Office Building in Japan, Ryo MIYOSHI</li> <li>3. A Study of the Strategic Model Smart Mobility in Okinawa Main Island (Electronic Vehicles and Plud-in Hybrid Vehicles), Toro FUJII</li> <li>4. Planning the Construction of Low-rise City Building Linear Scheduling Method, Mishchenko VALERY</li> </ol>	Kulen
12:00-13:30	Lunch at the conference venue	
13:30-15:50	<b>PARALLEL SESSION B</b>	Room
<b>Group I</b>	<p><b>Title: Preservation of Cultural Heritage and Disaster Prevention</b>  <b>Co-chairs: H.E. OUK Topbotra and Prof. Takeshi Nakagawa</b></p> <ol style="list-style-type: none"> <li>1. Utilization and Date of Isanapura City Base on AMS C14 and Ceramics Sources, Menghong CHHUM</li> <li>2. Bayon Great Buddha Restoration, Reconstitution and Reinstallation Project, Takeshi NAKAGAWA</li> <li>3. Archaeological Excavation Survey for Restoration of the Bayon Temple : Case Study on the Excavation Survey of the Southern Library of Bayon Temple, Kou VET</li> <li>4. THE SACRED GARDEN: Learning from the Conservation of Lumbini, K. LocanaGUNARATNA</li> <li>5. Deterioration and Preservation of the Three-storied Stone Pagoda (West) of Gameunsa Temple Site in Gyeongju, Korea, Soo Jin KIM</li> <li>6. Conception Framework Exploration Elements The Soul of The City In George Town, Penang, Firdaus Al-SiddiqFadzil</li> <li>7. Ground Penetrating radar for Humanitarian Demining and Archaeological Survey, Motoyuki Sato</li> </ol>	Bayon Ballroom
<b>Group II</b>	<p><b>Title: The Food, Health and Environmental Preservation in the Era of Changing Climate</b>  <b>Co-chair: Dr. Hul Seing heng and Prof. Keisuke HANAOKI</b></p> <ol style="list-style-type: none"> <li>1. The Effect of the Environment Sound on Human Thermal SENSATITION, Kenta FUKAGAWA</li> <li>2. Measuring Thermal Insulation Value of Clothing Using Heat Flux Sensor, Yoshiaki YAMATO</li> <li>3. The Influence of Solar Radiation upon the Human Body, Yoshihito KURAZUMI</li> <li>4. Recent Tendency of Accidents in Building Facilities and Risk of Fatal Accidents by Heatstroke in Construction Industry, Hiroyuki WARIISHI</li> <li>5. Emission Sources of Air Pollutants in Phnom Penh, Cambodia, Ung PORSRY</li> <li>6. Calibrating the Regeneration Process of the Resin HAIX Used for Arsenic Affected Community in Cambodia, Theara EUNG</li> <li>7. Technique and Technology for Kitchen at Rural Villages in Cambodia, Sumiko YAMAZAKI</li> </ol>	Kravan

<b>Group III</b>	<b>Title: Sustainable Development and the Use of Energy</b> <b>Co-Chair: Dr. Po Kimtho and Prof. Hiroto TAKAGUCHI</b> <ol style="list-style-type: none"> <li>1. The Impacts of Electrification on Energy Usage and Lifestyle in Rural Areas of Cambodia, Seng OUSA</li> <li>2. Form Transformation and Energy Consumption of Cambodian Stilted Houses in a Rural Area, Hiroto TAKAGUCHI</li> <li>3. A Survey on Residential Environment And The Renovation for A Bio-Village Around Western Region of China, Yasuko YOSHINO</li> <li>4. Actual Situation of Indoor Environment and Energy Consumption in the High-rise Office buildings in Vietnam, Eriko TOKUDA</li> <li>5. Practical Process for Introducing Smart Business Continuity Management to Tokyo, Takeshi SAKIMOTO</li> <li>6. Future Mobiquitous Tourism in Cambodia, Sok KIMHENG</li> <li>7. Making Asian Think-tank Networks &amp; the Training of Young Leaders for the Asian Future, Kumiko HABA</li> </ol>	Kulen
15:50-16:10	Break	
16:10-17:10	<b>SCA Management Board Meeting I</b> (SCA Members and observers only)	Kravan
18:30-	<b>Welcome Gala Dinner hosted by Ministry of Education Youth and Sport</b>	Rest. Kulen-2

### 16 May 2015, Saturday

Time	Program	Venue
8:00 -	Registration	
<b>SCA International Symposium (DAY 2)</b>		
8:30-9:30	<b>Plenary session II Chair by Prof. Dr. Mohd Nordin Bin Hassan</b>  <b>Keynote 3:</b> Space Technology: A Powerful Tool for Our Prosperous and Secure Society, Prof. Kiyoshi HIGUCHI, President, International Astronautically Federation Technical Counselor of JAXA, Japan  <b>Keynote 4:</b> Science and Technology for Cambodian Culture Heritage: An Observation, present by Dr. Phan Nady, Deputy-Director General for Heritage speech on behalf H.E. Dr. Sackona PHOEURNG, Minister of Culture and Fine Arts, Cambodia	Bayon Ballroom
9:30-9:50	Break	
9:50-12:00	<b>SCA Joint Project Workshops (JPWS)</b> <b>Title: Cambodian Heritage and Preservation and Environment of Ecosystem toward the Future</b>  <b>Moderator: Dr. Om ROMNY, Vice-President of SCA &amp; Director of ITC</b> <b>Prof. Hiroshi YOSHINO, Secretary General, Science Council of Asia</b> <ol style="list-style-type: none"> <li>1. Environmental Changes of Cambodia during the Last 20,000 Years and Environmental Changes of the Angkor World Heritage during the Last 20 Years, Prof. Shinji TSUKAWAKI, Sedimentary Geology, Kanazawa University, Ad Hoc Expert of ICC – ANGKOR</li> <li>2. Sustainable Platform for the Management of Biosphere Heritage in Cambodia, Dr. Seingheng HUL, Director of Research, Institute of Technology of Cambodia</li> <li>3. Natural Capital Accounting: Pathway to Sustaining the Flow of Ecosystem Services, Dr. Sophal CHHUN, Secretariat General for the</li> </ol>	Bayon Ballroom

	<p>National Council on Green Growth, Cambodia</p> <p>4. Japanese Collaborators in the Golden Age of Modern Khmer City and Architecture in Cambodia, Kosuke MATSUBARA, Associate Professor, University of Tsukuba</p>	
12:00-13:30	Lunch at the conference venue	
13:30-15:30	<b>PARALLEL SESSION C</b>	Room
<b>Group I</b>	<p><b>Title: Preservation of Cultural Heritage and Disaster Prevention</b>  <b>Co-chairs: H.E.OUK Topbotra and Prof. Hiroshi YOSHINO</b></p> <ol style="list-style-type: none"> <li>1. A Scientific Investigation of the Hull Form, Construction and Seaway Performance of an Old Korean Ship, “Wando-sun,” Dr. Hang S. CHOI</li> <li>2. Proposal of the Curriculum Development for Sustainable Architecture in Cambodian University, Yumi OHTA</li> <li>3. The Role of Education and Training in Protecting the Environment and Preserving Cultural, Werner J. SCHMIDT</li> <li>4. Applying Tesseract for Khmer Optical Character Recognition, Srun SOVILA</li> <li>5. A Study of the Valuation Method of Heritage Assets at The National Trust, Masako YAMAMOTO</li> <li>6. The Study on Data Collection by GPS and Analysis on GIS in the Greater Lumbini, Tomoko Mori</li> <li>7. Expression of the Traditional Architectural Elements in the Renewal of Wenming Street Historical Block in Kunming City, China, Li TAO</li> <li>8. Cultural Heritage as Sustainable Tourism Resource, Satoshi Masutani</li> </ol>	Bayon Ballroom
<b>Group II</b>	<p><b>Title: The Food, Health and Environmental Preservation in the Era of Changing Climate</b>  <b>Co-chairs: Dr. Chunhieng Thavarith and Prof. Fumiko KASUGA</b></p> <ol style="list-style-type: none"> <li>1. Impacts of Climate Change and Planned Dams on Suspended Sediment Dynamics In the Mekong River Basin, Yoshimura Chihiro</li> <li>2. Water Treatment Practice at Rural Areas of Myanmar and Possible Contribution by Environmental Engineering Technology, Hiroshi SAKAI</li> <li>3. Risk-based Food Safety Management + For Preserving Food Culture and Sustainable Healthy Society, Fumiko KASUGA</li> <li>4. Indigenous Medicinal Plants of Sri Lanka: A Cultural Heritage for Development, N. Savitri KUMAR</li> <li>5. Climate Change and Monsoon Onset Effects on Myanmar coastal resources emphasis on Myeik Archipelago, Nang Mya Han</li> <li>6. Community Learning Center: A Responds of the Grassroots Level to Overcome Poverty and Climate Change, SengSary</li> <li>7. Applying City Biodiversity Index to Japanese municipalities: Practical and methodological challenges, Yuta Uchiyama</li> </ol>	Kravan
<b>Group III</b>	<p><b>Title: Sustainable Development and the Use of Energy</b>  <b>Co-chairs: Dr. Po Kimtho and Prof. Tetsu KUBOTA</b></p> <ol style="list-style-type: none"> <li>1. Extraction of Total Phenolic Compounds from Mangosteen Pericarp Using Supercritical Carbon Dioxide with Hydrothermal Process, Chhouk KIMTHET</li> <li>2. Solid Waste Composition, Forecasting of Waste Generation and Methane generation in Phnom Penh, Cambodia, Seng KONG</li> <li>3. The Potential of Palm Oil Mill Effluent For Upgrade Biogas Production, Muhammad KISMURTONO</li> <li>4. Balancing Quality of Life and Energy-Saving among Residents in Major Cities of Indonesia, Tetsu KUBOTA</li> </ol>	Kulen
15:30-15:50	Break	

15:50-16:10	<b>Wrap-up Meeting</b> chair by Dr. Vijaya KUMAR, President of SCA	Bayon Ballroom
16:10-16:50	<b>Panel Discussion</b> chair by Prof. Dr. Nordin HASAN, Immediate Past President of SCA How SCA members can work together to achieve our Heritages and role of Science and Technology for preventing and preserving World Heritages.	
16:50-17:10	<b>Closing Ceremony by H.E. Chuch Phoeurn</b> , Secretary of State, Ministry of Culture and Fine Arts, Kingdom of Cambodia	
17:20-18:20	<b>SCA Management Board Meeting II (SCA Members and observers only)</b>	Kravan
18:30-	<b>Farewell Gala Dinner</b> hosted by SCJ (Invitees only)	Hotel's pool site

### 17 May 2015, Sunday

Time	Program	Venue
7:20 -17:30	<b>Excursion to the Angkor Wat and other heritage sites (Registrant only)</b> Departure from Angkor Paradise Hotel. Bus will pick-up delegates for the site visit (Participation in the morning only is possible)	World heritage sites

#### ❖ Hotel Venue for the 15<sup>th</sup> SCA in Siem Reap

Angkor Paradise Hotel  
National Road No. 6, Phum Sala Konseng, Sangkat Svay Dankoum, Siem Reap, Kingdom of Cambodia  
Tel (855) 63 760 690 / (855) 63 965 658  
Fax (855) 63 760 691  
E-mail: info@angkorparadise.net  
Website: www.angkorparadise.net

#### ❖ Registration

Registration desk at the lobby of Hotel Venue

#### ❖ Contact address

Institute of Technology of Cambodia (ITC)  
P.O. Box 86, Russian Conf. Blvd. Phnom Penh, Cambodia  
Tel : 855 23 880 370 / 982 404 H/P: 16 400 200  
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