<table>
<thead>
<tr>
<th>Time</th>
<th>Friday, 29 July 2016</th>
<th>Saturday, 30 July 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00 - 09.00</td>
<td>Construction EXPO - BMICH</td>
<td>Registration</td>
</tr>
<tr>
<td>09.00 - 09.15</td>
<td>S9043, S9054, S9046, S9075, S9074</td>
<td>Session 2A</td>
</tr>
<tr>
<td>09.15 - 09.30</td>
<td>S9045, S9056, S9039, S9007, S9006</td>
<td>Session 2B</td>
</tr>
<tr>
<td>09.45 - 10.00</td>
<td>S9049, S9012, S9019, S9030, S9085</td>
<td>Session 2C</td>
</tr>
<tr>
<td>10.00 - 10.15</td>
<td>S9022, S9023, S9029, S9078, S9087</td>
<td>Session 2D</td>
</tr>
<tr>
<td>10.15 - 10.45</td>
<td>Q&amp;A</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>10.45 - 11.00</td>
<td>Session 3A</td>
<td>Tea / Coffee Break</td>
</tr>
<tr>
<td>11.00 - 11.15</td>
<td>S9036, S9050, S9039, S9006</td>
<td>Session 3B</td>
</tr>
<tr>
<td>11.15 - 11.30</td>
<td>S9065, S9079, S9005, S9033</td>
<td>Session 3C</td>
</tr>
<tr>
<td>11.30 - 11.45</td>
<td>S9007, S9008, S9004, S9061</td>
<td>Session 3D</td>
</tr>
<tr>
<td>11.45 - 12.00</td>
<td>S9084</td>
<td>Session 3E</td>
</tr>
<tr>
<td>12.00 - 12.15</td>
<td>Q&amp;A</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>12.15 - 12.30</td>
<td>Session 4A</td>
<td>Lunch</td>
</tr>
<tr>
<td>12.30 - 13.30</td>
<td>S9070, S9082, S9064, S9067</td>
<td>Session 4B</td>
</tr>
<tr>
<td>13.30 - 13.45</td>
<td>S9048, S9062, S9066, S9055</td>
<td>Session 4C</td>
</tr>
<tr>
<td>13.45 - 14.00</td>
<td>S9051, S9038, S9040, S9086</td>
<td>Session 4D</td>
</tr>
<tr>
<td>14.00 - 14.15</td>
<td>Q&amp;A</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>14.15 - 14.30</td>
<td>Session 5A</td>
<td>Tea / Coffee Break</td>
</tr>
<tr>
<td>14.30 - 15.00</td>
<td>S9071, S9077, S9068, S9032</td>
<td>Session 5B</td>
</tr>
<tr>
<td>15.00 - 15.30</td>
<td>S9069, S9013, S9056, S9025</td>
<td>Session 5C</td>
</tr>
<tr>
<td>15.30 - 16.00</td>
<td>S9080, S9053, S9083, S9060</td>
<td>Session 5D</td>
</tr>
<tr>
<td>16.00 - 16.30</td>
<td>Symposium Inauguration – Galadari Hotel</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>16.30 - 16.45</td>
<td>Session 1A</td>
<td>Symposium Sum-Up</td>
</tr>
<tr>
<td>16.45 - 17.00</td>
<td>S9071, S9077, S9068, S9032</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>17.00 - 17.15</td>
<td>S909, S9013, S9056, S9025</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>17.15 - 17.30</td>
<td>S9080, S9053, S9083, S9060</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>17.30 - 17.45</td>
<td>Q&amp;A</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>17.45 - 18.15</td>
<td>Cultural Dinner and Green Building Awards Ceremony – Ramada Hotel</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>19.30 - 22.30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The 5th World Construction Symposium 2016
## DETAILED SESSION PLAN

**Friday, 29 July 2016**

### Session 1A

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper ID, Title and Author(s)</th>
</tr>
</thead>
</table>
| 04.30 – 04.45 pm | S9071 - Risk Allocation between Main Contractors and Subcontractors in Building Projects in Sri Lanka  
K.R.S. Perera, S. Gunatilake, D.T. Vijerathne and N.N. Wimalasena |
| 04.45 – 05.00 pm | S9077 - A Review of Safety Climate and Risk-taking Propensity in Occupational Health, Safety and Well-being in the Construction Industry  
Steve Rowlinson, Yuzhong Shen and Tas Yong Koh |
| 05.00 – 05.15 pm | S9068 - Risk Management Strategies for Facilities Manager’s in Sri Lanka  
N.S.D. Abeysinghe and A.K. Andaraweera |
| 05.15 – 05.30 pm | S9020 - Risk Associated with Facilities Management Outsourcing and its Impact on Service Performance  
K.K.G.P. Somarathna and Nayantara De Silva |
| 05.30 – 05.45 pm | S9032 - Interactional Analysis for Two-Party Risk Assessment in Public Private Partnerships (PPP)  
Rana Khallaf, Nader Naderpajouh and Makarand Hastak |
| 05.45 – 06.15 pm | Q&A                                                                 |

*Session Coordinator: Ms. Anushika Ekanayake*
### Session 1B

**Theme**: Performance Management  
**Session Chair**: Prof. John Tookey  
**Venue/Time**: Salon Jasmine – 04.00 pm – 06.15 pm  
**Time** | **Paper ID, Title and Author(s)**  
---|---  
04.30 – 04.45 pm | **S9069** - Industry Attractiveness of Outsourced Facilities Management Services in Sri Lanka  
04.45 – 05.00 pm | **S9013** - Using Safety Climate as A Tool for Improvement of Safety Performance in Construction Organizations  
Tariq Umar and Sam Chris Wamuziri  
05.00 – 05.15 pm | **S9056** - Construction Management Practices Influencing Productivity in Building Projects  
Argaw Tarekegn Gurmu, Ajibade Ayodeji Aibinu and Toong-Khuan Chan  
05.15 – 05.30 pm | **S9003** - Critical Success Factors for Construction of Governmental Projects in Egypt  
Nael Y. Zabel, Ghadeer R. Alfandi, Yasser W. Eraky and Moheeb E. Ibrahim  
05.30 – 05.45 pm | **S9025** - Strategic Approach to Ensure Process Safety in Apparel Manufacturing Industry Using Total Productive Maintenance (TPM)  
H.W.S.N. Denipitiya, Nayantara De Silva, S.D.A. Soorige and H.W.N. Madhusanka  
05.45 – 06.15 pm | **Q&A**  

*Session Coordinator: Mr. Udara Abeydeera*
### Session 1C

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper ID, Title and Author(s)</th>
</tr>
</thead>
</table>
| 04.30 – 04.45 pm | S9080 - Optimisation of Project Performance in Post-Disaster Building Reconstruction Projects in Sri Lanka  
Maheshi Hulugalla and Nirodha Fernando |
| 04.45 – 05.00 pm | S9053 - Coastal Zone Adaptation in Trinidad and Tobago: A Review of Literature  
Carianne Johnson and Udayangani Kulatunga |
| 05.00 – 05.15 pm | S9083 - Involvement of Construction Management Professionals in Property Level Flood Adaptation  
Azom Uddin and Gayan Wedawatta |
| 05.15 – 05.30 pm | S9073 - Emerging Competencies within National and Local Government for Societal Resilience to Disasters in Sri Lanka  
S.S.L. Hettiarachchi, H. Goonasekera, S. Gunathilake and S. Weeresinghe |
| 05.30 – 05.45 pm | S9060 - Black Swan Effects on the Real Estate Environment: A Conceptual Framework  
Treshani Perera and David Higgins |
| 05.45 – 06.15 pm | Q&A                                                                                           |

**Session Coordinator:** Ms. Navodana Rodrigo
Saturday, 30 July 2016

Session 2A

Theme: Building Information Modelling
Session Chair: Ch.QS. Indunil Seneviratne
Venue/Time: Salon Orchid – 09.00 am – 10.45 pm

Time: Paper ID, Title and Author(s)

09.00 – 09.15 am: S9043 - Potential to Implement BIM Project with Sri Lankan Professionals
A.P.N.Y.K. Pathirana and Himal Suranga Jayasena

09.15 – 09.30 am: S9054 - Towards Facilities Information Management Through BIM
K.A.D.N.C. Wijekoon, Anupa Manewa, Andrew Ross and Dianne Marsh

09.30 – 09.45 am: S9046 - Capacity of Information Technology Infrastructure in Sri Lanka to Support Building Information Modelling Systems
G.W. Nadith Kalhara and Himal Suranga Jayasena

09.45 – 10.00 am: S9075 - Review on Lean Construction and TPS Approximation with BIM
M.Z.M. Zuhair, Himal Suranga Jayasena and M.R.M.F. Ariyachandra

10.00 – 10.15 am: S9074 - Implementation of Building Information Modelling within Construction SMEs
Anupa Manewa, Tanisha Blake, Andrew Ross, Dianne Marsh and Mohan Siriwardena

10.15 – 10.45 am: Q&A

Session Coordinator: Ms. Nethmin Pilanawithana
Saturday, 30 July 2016

Session 2B

Theme: Occupational Safety and Health Management in Built Environment

Session Chair: Prof. Steve Rowlinson

Venue/Time: Salon Jasmine – 09.00 am – 10.45 pm

Time | Paper ID, Title and Author(s)
--- | ---
09.00 – 09.15 am | S9049 – Review of Strategies to Improve Workplace Safety through Ethical Climates
Uthpala Rathnayake and Gayani Karunasena

09.15 – 09.30 am | S9012 - Developing A Framework to Ensure Safety of Maintenance Workers in Sri Lankan Commercial Buildings

09.30 – 09.45 am | S9019 - A Review of Construction Safety, Challenges and Opportunities - Oman Perspective
Tariq Umar and Sam Chris Wamuziri

09.45 – 10.00 am | S9030 - Managing Occupational Stress of Professionals in Large Construction Projects in Sri Lanka
Rasika Samanmali and Nayantara De Silva

10.00 – 10.30 am | S9085 - The Loopholes of Evacuation Process in the Sri Lankan Healthcare Sector
Thanuja Ramachandra and Achini Weerasinghe

10.15 – 10.45 am | Q&A

Session Coordinator: Ms. Nipuni Wimalasena
Saturday, 30 July 2016

Session 2C

Theme  Construction Law and Dispute Resolution
Session Chair  Ch.QS. (Mrs.) Kanchana Perera
Venue/Time  VIP Lounge – 09.00 am – 10.45 pm

Time  Paper ID, Title and Author(s)

09.00 – 09.15 am  S9010 - Win-Win Settlement: Applicability of Negotiation Principles for Dispute Negotiations in Construction Projects
Samurdi Baduge and Himal Suranga Jayasena

09.15 – 09.30 am  S9022 - Legal Framework For Effective Implementation of ADR Methods Under The Construction Industry Development Act
Jayarajan Jeyavernee and Mahesh Abeynayake

09.30 – 09.45 am  S9023 - Dispute Avoidance Model for Sri Lankan Construction Industry
Isuru De Alwis, Mahesh Abeynayake and Mathusha Francis

09.45 – 10.00 am  S9029 - Effectiveness of Alternative Dispute Resolution Methods Used in the Highway Construction Projects in Sri Lanka
C.M. Gammanpila and Mahesh Abeynayake

10.00 – 10.30 am  S9078 - Establishment of the Most Common Ground on Which Local Arbitral Awards Become Unenforceable in Sri Lanka
Manathunga D. Hemantha and L.D. Indunil P. Seneviratne

10.15 – 10.45 am  Q&A

Session Coordinator : Ms. Udara Ranasinghe
Saturday, 30 July 2016

**Session 3A**

**Theme**  Green Buildings  
**Session Chair**  Dr. Micheal Dignan  
**Venue/Time**  Salon Orchid – 11.00 am – 12.30 pm

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper ID, Title and Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00 – 11.15 am</td>
<td>S9036 - Adoptability of Green Lease in Developing Countries: The Case of Sri Lanka</td>
</tr>
<tr>
<td></td>
<td><em>N.C. Hettige, B.A.K.S. Perera and Harshini Mallawaarachchi</em></td>
</tr>
<tr>
<td>11.15 – 11.30 am</td>
<td>S9050 - Approaches to Foster Green Building Constructions in Sri Lanka</td>
</tr>
<tr>
<td></td>
<td><em>R. Thalpage and Gayani Karunasena</em></td>
</tr>
<tr>
<td>11.30 – 11.45 am</td>
<td>S9039 - Occupant Productivity and Indoor Environment Quality Linked to Global Sustainability Assessment System</td>
</tr>
<tr>
<td></td>
<td><em>Yousef Al Horr, Martha Katafygiotou, Esam Elsarrag, Mohammed Arif, Amit Kaushik and Ahmed Mazroei</em></td>
</tr>
<tr>
<td>11.45 – 12.00 noon</td>
<td>S9006 - Applicability of Green Human Resource Management Concept to Achieve Sustainable Goals of Green Buildings in Sri Lanka</td>
</tr>
<tr>
<td></td>
<td><em>R.L. Weerasinghe, Lalith de Silva and Harshini Mallawaarachchi</em></td>
</tr>
<tr>
<td>12.00 – 12.30 pm</td>
<td>Q&amp;A</td>
</tr>
</tbody>
</table>

*Session Coordinator: Ms. Navodana Rodrigo*
Saturday, 30 July 2016

Session 3B

**Theme**  
Energy Management in Built Environment

**Session Chair**  
Dr. (Mrs.) Nayantara De Siva

**Venue/Time**  
Salon Jasmine – 11.00 am – 12.30 pm

**Time**  
**Paper ID, Title and Author(s)**

11.00 – 11.15 am  
S9065 - Factors Affecting the Indoor Environmental Quality in Sri Lanka: Green vs. Conventional Hotel Buildings  
L. Gayathri, B.A.K.S. Perera and D.M.G.A.N.M. Sumanarathna

11.15 – 11.30 am  
S9079 - Carbon and Cost Critical Elements of Office Building: A Case Study  
Michele Victoria , Srinath Perera, Alan Davies and Nirodha Fernando

11.30 – 11.45 am  
Iresh Weerasinghe, Harshini Mallawaarachchi and Lalith De Silva

11.45 – 12.00 noon  
S9033 - Saving Energy in Office Buildings without Compromising their Indoor Environmental Quality  
R.A.D.K. Akalanka, B.A.K.S. Perera and N.H.C. Manjula

12.00 – 12.30 pm  
Q&A

**Session Coordinator : Mr. Sadith Chinthaka**
### Saturday, 30 July 2016

**Session 3C**

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper ID, Title and Author(s)</th>
</tr>
</thead>
</table>
| 11.00 – 11.15 am | S9076 - Synergy Between Lean and Value Engineering Concepts: Sri Lankan Construction Industry Perspective  
E.M.A.C. Ekanayake and Y.G. Sandanayake |
| 11.15 – 11.30 am | S9008 - Strategies for Tactful Time Management for Quantity Surveyors  
Sivakumar Abiramy, Vijitha Disaratna and Nishadi Anuruddika |
| 11.30 – 11.45 am | S9004 - Use of Provisional Sums in the UAE Construction Industry: An Empirical Study  
Krisanthi Seneviratne, Ahmad Feras Arar and Hagir Hakim |
| 11.45 – 12.00 noon | S9061 - Is Construction Getting Quicker?  
Andrew Ross, Rebecca Norman, Anupa Manewa and Dianne Marsh |
| 12.00 – 12.15 pm | S9084 - Stakeholder Management in Road Construction Projects in Sri Lanka: A Contractor Perspective  
K.H.N.P. Jayathissa, Aparna Samaraweera and K.A.T.O. Ranadewa |
| 12.15 – 12.30 pm | Q&A |

**Session Coordinator:** Ms. Mahendrini Ariyachandra
Saturday, 30 July 2016

### Session 4A

<table>
<thead>
<tr>
<th>Theme</th>
<th>Knowledge Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Chair</td>
<td>Dr. Mohan Siriwardena</td>
</tr>
<tr>
<td>Venue/Time</td>
<td>Salon Orchid – 01.30 pm – 03.00 pm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper ID, Title and Author(s)</th>
</tr>
</thead>
</table>
| 01.30 – 01.45 pm | S9070 – Incorporating Tacit Knowledge in Performance Measurement System in a Sri Lankan Hotel  
*Haja Alawdeen Mohamed Aashik and Sepani Senaratne* |
| 01.45 – 02.00 pm | S9082 – Improving Collaboration Between Academia and Industry through Use of the Knowledge Transfer Partnerships  
*Finlay Mac Beath and Michael Dignan* |
| 02.00 – 02.15 pm | S9064 – Development of a Professional Doctoral Programme in Built Environment to Enhance Societal Resilience to Disasters  
*Solomon Babatunde, Kanchana Ginige, Onaopepo Adeniyi, Srinath Perera and Dilanthi Amaratunga* |
| 02.15 – 02.30 pm | S9067 – Integrating Disaster Management Perspective into Architectural Design Education at Undergraduate Level – A Case Example from Turkey  
*Emrah Acar and Fadime Yalçınkaya* |
| 02.30 – 03.00 pm | Q&A |

Session Coordinator: Ms. Nethmin Pilanawithana
Saturday, 30 July 2016

Session 4B

Theme: Procurement and Integrated Project Delivery
Session Chair: Prof. Sam Wamuziri
Venue/Time: Salon Jasmine – 01.30 pm – 03.00 pm

Time | Paper ID, Title and Author(s)
---|---
01.30 – 01.45 pm | S9048 - Gaps in Public Procurement Process in Sri Lankan Construction Industry
K.A.P. Gunawardhane and Gayani Karunasena

01.45 – 02.00 pm | S9062 - The Adoption of Integrated Project Delivery in Public Sector Projects in New Zealand: The Way Forward
Nicola Naismith, John Tookey, Ali Ghaffarian Hoseini and Rahul Kekreja

02.00 – 02.15 pm | S9066 - Suitability of Package Deal Contracts for Residential Building Construction
U.S.C. Bandara, H. Chandanie and Lalith de Silva

02.15 – 02.30 pm | S9055 - A Study of Delays in Procurement of Engineered Equipment for EPC Projects in India: A Mixed Method Research Approach
Srikar Kalidoss Sandilya and Koshy Varghese

02.30 – 03.00 pm | Q&A

Session Coordinator: Ms. Udara Ranasinghe
Saturday, 30 July 2016

**Session 4C**

**Theme**  
Sustainable Construction

**Session Chair**  
Prof. Rupa Purasinghe

**Venue/Time**  
VIP Lounge – 01.30 pm – 03.00 pm

**Time**  
Paper ID, Title and Author(s)

01.30 – 01.45 pm  
S9051 - Sustainable Construction Practices of Sri Lankan Contractors  
*Kushani Athapaththu, Gayani Karunasena and E.M.A.C. Ekanayake*

01.45 – 02.00 pm  
S9038 - Behaviour Change in the Sustainable Built Environment  
*Yousef Al Horr, Martha Katafygiotou, Esam Elsarrag, Mohammed Arif, Amit Kaushik and Ahmed Mazroei*

02.00 – 02.15 pm  
S9040 - 3R.6R Extended Water Hierarchy Model for Sustainable Use of Water during Construction  
*K.G.A.S. Waidyasekara, Lalith De Silva, R. Rameezdeen*

02.15 – 02.30 pm  
S9086 – Energy from Waste: A Solution for the Garbage Crisis at Meethotamulla, Kolonnawa, Sri Lanka  
*R.A.G. Nawarathna and S. Joyce*

02.30 – 03.00 pm  
Q&A

**Session Coordinator : Ms. Nipuni Wimalasena**