ICPMG 2018

Conference programme
Events
Guide to London
Welcome to London for the 9th International Conference for Physical Modelling in Geotechnics, ICPMG 2018

The Organising Committee for ISSMGE TC104 (Physical Modelling in Geotechnics) welcomes you to London for the 9th International Conference on Physical Modelling in Geotechnics.

London follows the successful series of conferences which began in Paris in 1988 and was most recently held at The University of Western Australia in 2014.

This conference aims to communicate and disseminate recent developments in all aspects of geotechnical physical modelling. A special themed day focussing on the application of physical modelling in geotechnics to industry will be held on Thursday 19th July.

City, University of London, the venue for the conference is situated in Clerkenwell, a vibrant hub for independent design consultancies, architects and civil engineers. Major cultural centres such as the Barbican Arts Centre, Saddlers’ Wells Theatre, the Museum of London and the British Library are only a short walk away. The University borders the City of London with its many historic buildings and London landmarks such as St Paul’s Cathedral, the Millennium Bridge and the Gherkin.

During this four day conference you will discover some of the City of London’s historic hidden gems and highlights will include:

i. A welcome reception at Skinners’ Hall, home to one of the Great Twelve City of London livery companies
ii. The fourth Schofield Lecture given by Professor Neil Taylor with a drinks reception hosted at City, University of London, sponsored by Broadbent
iii. The Gala dinner hosted at Middle Temple Hall, a magnificent ancient Inn of Court
iv. A relaxing evening on the banks of the River Thames in Greenwich at the Trafalgar Tavern.

We hope you enjoy your time in London and have the opportunity to immerse yourselves in all that this great city has to offer.

Dr Andrew McNamara
Chair of TC104 and ICPMG 2018
*Please note that for the duration of the conference, all introductory sessions, keynotes, themed lectures and plenary sessions will be held in the Oliver Thompson Lecture Theatre.

09:00 - 09:30
Registration and morning refreshments (Pavilion)

09:30 - 10:00
* Opening Ceremony
Dr A.M. McNamara, TC104 Chair and Professor C. Atkin; Head of Engineering at City, University of London
Chair: Professor SW Jacobz, University of Pretoria, South Africa
1. Professor W.A. Take; Current and emerging physical modelling technologies
2. Centrifuge model tests on excavation in Shanghai clay using infill excavation tools; X.F. Ma & J.W. Xu
3. Novel experimental device to simulate tsunami loading in a geotechnical centrifuge; M.C. Eaton, S. Harry, H.B. Mason, H. Yeh & B.L. Kutter

10:00 - 11:00
* Themed lecture and plenary session on Model making
Model making
Chair: Professor C.F. Leung, National University of Singapore

Ground improvement I (Oliver Thompson Lecture Theatre)
1. Dynamic centrifuge tests on nailed plate foundations; S. Nakamoto, N. Iwata & J. Takemura
2. Plate bearing tests for working platforms; G. Tanghetti, R.J. Goodey, A.M. McNamara & H. Habi
3. Effect of lateral confining condition of behaviour of confined-reinforced earth; H.M. Hung & J. Kuwano
4. Observed deformations in geosynthetic-reinforced granular soils subject to voids; T.S. da Silva & M.Z.E.B. Elshafei
5. Large-scale physical model GRS walls: evaluation of the combined effects of facing stiffness and toe stiffness on performance; S.H. Miramoradi & M. Ehrlich
6. Physical modelling and monitoring of the subgrade on weak foundation and its reinforcing with geosynthetics; A.A. Zaytsev, Y.K. Frolovsky, A.V. Gorlov, A.V. Petryasev & V.V. Ganchits

11:00 - 11:30
Refreshment break (Pavilion, Oliver Thompson Foyer & ELG15 Foyer)

11:30 - 13:00
Parallel sessions
Chair: Dr P. Shepley, University of Sheffield, UK
Imaging & visualisation (B200)
10. Image capture and motion tracking applications in geotechnical centrifuge modelling; P. Kokkali, T. Abdoun & A. Tassari
11. A study on performance of three-dimensional imaging system for physical models; B.T. Le, S. Naïmi, R.J. Goodey & R.N. Taylor
12. Imaging of sand-pile interface submitted to a high number of loading cycles; J. Doreau-Maloche, G. Combe, J.B. Toni, G. Viggiani & M. Silva
13. Flow visualisation in a geotechnical centrifuge under controlled seepage conditions; C.T.S. Beckett & A.B. Fouine
15. Development of a window laminar strong box; S.C. Chan, C. Qin & Z. Zhang

Chair: Dr E.T. Bowman, University of Sheffield, UK
Slopes & geohazards (ELG03)
16. Model tests to simulate formation and expansion of subsurface cavities; R. Kuwano, R. Sera & Y. Ohara
17. An experimental and numerical study of pipe behaviour in triggered sandy slope failures; W. Zhang, Z. Grig & A. Askarinejad
18. Effects of viscosity in granular flows simulated in a centrifugal acceleration field; M. Cabrera, P. Kailey, E.T. Bowman & W. Wu
20. Centrifuge modelling of earth slopes subjected to change in water content; P. Aggarwal, R. Singh & A. Junega
21. Centrifuge model test on deformation and failure of slopes under wetting-drying cycles; F. Luo & G. Zhang

Chair: Professor J. Laue, Lulea University, Sweden
35. Experiments for a coarse sand backfill; S. Idinyang, A. Franza, G.N. Eichhorn, V. Panchal, A. McNaughton & M. Smit
36. Centrifuge model tests on levees subjected to soil mass movements; G.N. Eichhorn, B.V.S. Viswanadham, S. Indinyang, A. Franza, G.N. Eichhorn, V. Panchal, A. McNaughton & M. Smit
37. Centrifuge tests of levees subjected to flooding; A.M. Marshall & C.M. Heron
38. Load transfer mechanism of reinforced piled embankments; M.S.S. Almeida, D.F. Fagundes, A.M. Marshall & C.M. Heron
39. Load transfer mechanism of piled embankments: centrifuge tests versus analytical models; M. Blanc, L. Thörl, R. Girout, M.S.S. Almeida & D.F. Fagundes
40. Physical modelling of large dams for seismic performance evaluation; N.R. Kim & S.B. Jo

Tuesday 17th July

16:00 - 16:30
Tea & coffee (Pavilion, Oliver Thompson Foyer & ELG15 Foyer)

16:30 - 18:00
Parallel sessions
Chair: Dr K.J.L. Stone, University of Brighton, UK
Dams & embankments (B200)
32. Modelling cave mining in the geotechnical centrifuge; S.W. Jacobsz, E.P. Kearsey, D. Cumming-Fatkin & J. Wesselsko
33. A new test setup for studying sand behaviour inside an immersed tunnel joint gap; R. Rahadian, S. van der Woude, D. Wischut, C.B.M. Blom & W. Broere
34. Using pipe deflection to detect sinkhole development; E.P. Kearsey, SW. Jacobsz & H. Louw
35. Experiments for a coarse sand barrier as a measure against backwaters erosion piping; A. Beuzij, E. Rosenbrand, V.M. van Beek & K. Vandenbossche
36. Centrifuge model tests on levees subjected to flooding; R.K. Saran & B.V.S. Viswanadath
37. Centrifuge model test of vacuum consolidation on soft clay combined with embankment loading; S. Shiraga, Y. Sawamura & G. Hasegawa
38. Load transfer mechanism of reinforced piled embankments; M.S.S. Almeida, D.F. Fagundes, M.C.F. Almeida, A.D. Hartmann, R. Girout, L. Thörl & M. Blanc
39. Load transfer mechanism of piled embankments: centrifuge tests versus analytical models; M. Blanc, L. Thörl, R. Girout, M.S.S. Almeida & D.F. Fagundes
40. Physical modelling of large dams for seismic performance evaluation; N.R. Kim & S.B. Jo

Chair: Dr A.J. Brennan, University of Dundee, UK
Sensing & numerical application (ELG03)
41. Millisecond interfacing of physical models with ABAQUS; S. Indinyang, A. Franza, C.M. Heron & A.M. Marshall
42. Centrifuge and numerical investigations of rotated box structures; T.A. Newson, O.S. Abouhajer & K.J.L. Stone
43. Investigation of an OFDR Fibre Braggs System for use in geotechnical scale modelling; R.D. Beemer, M.J. Cassidy & C. Gaudin
44. New method for full field measurement of pore water pressures; M. Ottolini, W. Broere & J. Djikstra
46. Low cost tensiometers for geotechnical applications; S.W. Jacobsz

18:00 - 18:30
British afternoon tea (Pavilion)

18:30 - 19:30
* Schofield Lecture
Professor R.N. Taylor

19:30 - 20:30
Schofield Lecture drinks reception (Pavilion)
Wednesday 18th July

Morning refreshments (Pavilion)

Chair: Associate Professor T. Newson, Western University, Canada

47. Professor C. Gaudin; Geotechnical modelling for offshore renewables; C. Gaudin, C.D. O'Loughlin & B. Bienen

48. Comparison of centrifuge model tests of tetrapod piled jacket foundation in saturated sand and clay; B. Zhu, K. Wen, L.J. Wang & Y.M. Chen

49. Reduction in soil penetration resistance for suction-assisted installation of bucket foundation in sand; A.K. Koteras & L.B. Ibson

50. Experimental modelling of the effects of scour on offshore wind turbine monopile foundations; R.O. Mayall, R.A. McAdam, B.W. Byrne, H.J. Burd, B.B. Sheil, P. Cassie & R.J.S. Whitehouse


Themed lecture and plenary session on Offshore renewables

Chair: Associate Professor T. Newson, Western University, Canada

47. Professor C. Gaudin; Themed lecture and plenary session on Offshore renewables; C. Gaudin, C.D. O'Loughlin & B. Bienen

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49. Reduction in soil penetration resistance for suction-assisted installation of bucket foundation in sand; A.K. Koteras & L.B. Ibson


10:00 - 11:00

Refreshment break (Pavilion, Oliver Thompson Foyer & ELG15 Foyer)

11:00 - 13:00

Parallel sessions

Chair: Dr J.A. Black, University of Sheffield

Offshore I (Oliver Thomson Lecture Theatre)


53. Wave-induced liquefaction and flotation of pipeline buried in sand beds; J. Miyamoto, S. Sassa & K. Tsunagasaki

54. Capacity of vertical and horizontal plate anchors in sand under normal and shear loading; S.H. Chow, J. Le, M. Forsyth & C.D. O'Loughlin

55. Physical modelling of active suction for offshore renewables; N. Fumana, C. Gaudin, Y. Tan & C.D. O'Loughlin

56. Measuring the behaviour of dual row retaining walls in dry sands using centrifuge tests; S.S.C. Madabhushi & S.K. Haigh

57. Centrifuge model tests on stabilisation countermeasures of a composite breakwater under tsunami actions; K. Tsunagasaki, J. Miyamoto, R. Hem, T. Iwamoto & H. Nakase

58. Centrifuge modelling of long term cyclic lateral loading on monopoles; S.M. Bayton, J.A. Black & R.T. Klinkvort

59. General study on the axial capacity of piles of offshore wind turbines jacked in sand; I. El Haffar, M. Blanc & L. Thorel

13:00 - 14:00

Lunch (Pavilion & Courtyard Café)

Chair: Dr N.R. Kim, K-Water Institution, Korea

76. Professor Y.J. Hou; Development of geotechnical centrifuges and facilities in China

77. A new environmental chamber for the HKUST centrifuge facility; A. Archer & C.W.W. Ng

78. The development of a small centrifuge for testing unsaturated soils; K.A. Kwa & D.W. Airey

79. Upgrades to the NHRI - 400gt geotechnical centrifuge; S.S. Chen, X.W. Gu, G.F. Ren, W.M. Zhang, N.X. Wang, M.G. Xu, W. Liu, J.Z. Hong & Y.B. Chen

80. A new 240 g-tonne geotechnical centrifuge at the University of Western Australia; C. Gaudin, C.D. O'Loughlin & J. Breen

14:00 - 14:30

* Keynote lecture and plenary session on Facilities

Chair: Professor V. Fioravante, University of Ferrara, Italy

Ground improvement II (ELG03)

66. Displacement measurements of ground and piles in sand subjected to reverse faulting; C.F. Yao, S. Seki & J. Takemura

67. Pile jetting in plane strain: small-scale modelling of monopoles; S. Norris & P. Shepley

69. Physical modelling of compaction grouting injection using a transparent soil; Y. Wang & R.J. Chalaturnyk

70. Comparative study of consolidation behaviour of differently-treated mature fine tailings specimens through centrifuge modelling; G. Zambrano-Narvaez, Y. Wang & R.J. Bathurst

72. Relative contribution of drainage capacity of stone columns as a countermeasure against liquefaction; V. Unasegarm, S. Seki & J. Takemura


14:30 - 16:00

Plenary session on Facilities

Chair: Associate Professor J. Dijkstra, Chalmers University, Sweden

Walls & deep foundations (B200)

60. Soil movement mobilised with retaining wall rotation in loose sand; C. Deng & S.K. Haigh

61. Deflection and failure of self-standing high stiffness steel pipe sheet pile walls embedded in soft rocks; V. Kuresagem, S. Seki & J. Takemura


63. Centrifuge modelling of 200,000 tonnage sheet-pile bulkheads with relief platform; G.M. Xu, G.F. Ren, X.W. Gu & Z.Y. Cai

64. Dynamic behaviour on pile foundation combined with soil-cement mixing walls using permanent pile; K. Watanebe, M. Arakawa & M. Mizumoto

65. Centrifuge modelling of non-displacement piles on a thin bearing layer overlying a clay layer; Y. Hori & T. Nagao

66. Displacement measurements of ground and piles in sand subjected to reverse faulting; C.F. Yao, S. Seki & J. Takemura

67. Pile jetting in plane strain: small-scale modelling of monopoles; S. Norris & P. Shepley

68. Centrifuge modelling of Continuous Compaction Control (CCC); B. Caiedo & J. Escobar

69. Physical modelling of compaction grouting injection using a transparent soil; D. Takano, Y. Morikawa, Y. Miyata, H. Nonoyama & R.J. Bathurst

70. Comparative study of consolidation behaviour of differently-treated mature fine tailings specimens through centrifuge modelling; G. Zambrano-Narvaez, Y. Wang & R.J. Bathurst

71. Analytical design approach for the self-regulating interactive membrane foundation based on centrifuge-model tests and numerical simulations; O. Detert, D. König & T. Schanz

72. Relative contribution of drainage capacity of stone columns as a countermeasure against liquefaction; E. Apostolou, A.J. Brennan & J. Wehr

73. Earthquake-induced liquefaction mitigation under existing buildings using drains; S. Garcia-Torres & G.S.P. Madabhushi


16:00 - 16:30

Refreshment break (Pavilion & Oliver Thompson Foyer)

Chair: Associate Professor V. Zania, Technical University of Denmark

16:30 - 18:00

Plenary session on Offshore dynamics

Chair: Associate Professor V. Zania, Technical University of Denmark

81. An investigation on the performance of a self-installing monopiled GBS structure under lateral loading; K.J.L. Stone, A. Tillman & M. Vaziri

82. Dynamic load tests on large diameter open-ended piles in sand performed in the centrifuge; E. Heins, B. Bienen, M.F. Randolph & J. Grabe

83. Physical modelling of monopile foundations under variable cyclic loading; J.A. Richards, B.W. Byrne & G.T. Houlsby

84. Model tests on the lateral cyclic responses of a caisson-piles foundation under scour; C.R. Zhang, H.W. Tang & S.M. Huang

85. Centrifuge model tests and circular slip analyses to evaluate reinforced composite-type breakwater stability against tsunami; H. Takahashi, S. Sassa, Y. Morikawa & K. Maruyama

86. Surface pipeline buckling on clay: Demonstration; R. Phillips, J. Barrett & G. Piercey

18:30 - 21:30

Reception & gala dinner at Middle Temple Hall
08:30 - 09:00  Morning refreshments (Pavilion)

09:00 - 09:10  * Introduction
Professor Lord Robert Mair; President of the Institution of Civil Engineers

09:10 - 09:40  Chairs: Professor C. Gaudin, University of Western Australia & Professor G. Vigliani, University of Cambridge, UK
87. Professor S.M. Gourvenec; The role of centrifuge modelling in capturing whole-life responses of geotechnical infrastructure to optimise design
89. Experimental modelling of infiltration of bentonite slurry in front of shield tunnel in saturated sand; T. Xu & A. Bezuijen
90. Concave segmental retaining walls; D. Stathas, L. Xu, J.P. Wang, H.I. Ling & L. Li
91. 3D printing of masonry structures for centrifuge modelling; S. Ritter, M.J. DeJong, G. Giardina & R.J. Mair
132. Bearing capacity of surface and embedded foundations on a slope: centrifuge modelling; D. Taeser, L. Sakellariadis, R. Schindler & I. Anastasopoulos

09:40 - 10:40
88.  Experimental modelling of infiltration of bentonite slurry in front of shield tunnel in saturated sand; T. Xu & A. Bezuijen
89. Concave segmental retaining walls; D. Stathas, L. Xu, J.P. Wang, H.I. Ling & L. Li
91. 3D printing of masonry structures for centrifuge modelling; S. Ritter, M.J. DeJong, G. Giardina & R.J. Mair
132. Bearing capacity of surface and embedded foundations on a slope: centrifuge modelling; D. Taeser, L. Sakellariadis, R. Schindler & I. Anastasopoulos

10:40 - 11:00  Refreshment break (Pavilion & Oliver Thompson Foyer)

11:00 - 11:30  * Keynote lecture and plenary session on Tunnelling, retaining and masonry walls
Chairs: Professor A. Bezuijen, Deltares and Ghent University, Belgium & Dr A.M. McNamara, City, University of London, UK
92. Dr. J.A. Knappett; Physical modelling of structural and biological soil reinforcement
93. A field model investigating pipeline leak detection using discrete fibre optic sensors; S.J. Jahnke, S.W. Jacobsz & E.P. Kearsey
94. Model testing of rotary jacked open ended tubular piles in saturated non-cohesive soil; D. Frick, K.A. Schmoor, P. Gütz & M. Achmus
95. Influence of geometry on the bearing capacity of sheet piled foundations; J.P. Panchal, A.M. McNamara & R.J. Goodey
96. Performance of piled raft with unequal pile lengths; R.S. Bist, A. Juneja, A. Tyagi & F.H. Lee
97. Centrifuge model test on the instability of an excavator descending a slope; T. Hori & S. Tamate
98. Geotechnical model tests on bearing capacity of working platforms for mobile construction machines and cranes; R. Worbes & C. Moormann

11:30 - 13:00  Lunch (Pavilion)

14:00 - 17:00  Excursion to Greenwich

17:00 - 22:00  Food and drinks at the Trafalgar Tavern, Greenwich

22:00  Delegates to make their own arrangements for return travel

Trafalgar Tavern

Delegates will be taken by vintage bus to Bank. From Bank underground station take the DLR (Docklands Light Railway) towards Lewisham and alight at Cutty Sark station.

Trafalgar Tavern: a casual pub overlooking the River Thames, nestled in a UNESCO World Heritage site in Greenwich.

Date/Time: Thursday 19th July between 17:00 - 22:00

Venue address: Park Row, Greenwich, London, SE10 9NW

Getting there: The nearest tube stations are Cutty Sark on the DLR and Greenwich railway running a Thameslink or Southeastern service. Delegates travelling to Greenwich from City, University of London will be directed to Cutty Sark station on the DLR.

From Cutty Sark DLR station, head east toward Greenwich Church Street and then left onto Greenwich Church Street. Turn right at Greenwich Pier - Masthouse Pier/North Greenwich Pier and the destination will be on the left.

From Greenwich railway station turn left onto Greenwich High Road, follow the road into Nelson Road, turn left into Park Row. Trafalgar Tavern is on the right.

Inspiration on what to do and see around Greenwich are provided in your ‘Guide to Greenwich’ brochure.
Morning refreshments (Pavilion)

Chair: Professor D. Richards, University of Southampton, UK

99. Dr D.W. Wilson: An example of effective mentoring for research centres

100. Using small-scale seepage physical models to generate didactic material for soil mechanics classes; L. B. Becker, R. M. Linhares, F. S. Oliveira & F. L. Marques

101. Centrifuge modelling in the undergraduate curriculum – a 5 year reflection; J.A. Black, S.M. Bayton, A. Cargill & A. Tatar

102. Geotechnical centrifuge facility for teaching at City, University of London; S. Divall, S.E. Stallebrass, R.J Goodey, R.N Taylor & A.M. McNamara

13:00 - 14:00 Lunch (Pavilion & Courtyard Café)

14:00 - 14:30 * Keynote lecture and plenary session on Seismic modelling

Chair: Professor B.L. Kutter, UC Davis, California, USA

127. Associate Professor E. Bilotta: Modelling tunnel behaviour under seismic actions: an integrated approach

128. Dynamic behaviour of three-hinge-type precast arch culverts with various patterns of overburden in culvert longitudinal direction; Y. Miyazaki, Y. Sawamura, K. Kishida & M. Kimura

129. Comparison of seismic behaviour of pile foundations in two different soft clay profiles; T.K. Garate & G.S.P. Madabhushi

130. Kinematic interaction of piles under seismic loading; J. Pérez-Herreros, F. Cuira, S. Escoffier & P. Kotronis

131. Investigating the effect of layering on the formation of sand boils in 1g shaking table tests; S. Miles, J. Still & M. Stringer

15:30 - 16:00 Refreshment break (Pavilion, Oliver Thompson Foyer & ELG15 Foyer)

16:00 - 17:00 * Plenary session on Shallow foundations

Chair: Professor M.D. Bolton, University of Cambridge, UK

133. Determining shallow foundation stiffness in sand from centrifuge modelling; A. Pearson & P. Shepley

134. 1g-modelling of limit load increase due to shear band enhancement; K.F. Seitz & J. Grabe

135. Ground-borne vibrations from piles: testing within a geotechnical centrifuge; G. Cui, C.M. Heron & A.M. Marshall


17:00 - 18:00 * Conclusion

Closing ceremony and announcement of ICPMG 2022 Chair
City, University of London

The conference will be hosted in the University building (B) and Tait Building (C).

Access to the university should always be obtained from the main entrance on Northampton Square, which leads directly to the Pavilion. Signage will be in place to direct you to the refreshment areas and the parallel sessions.

City, University of London is equidistance from Angel, Barbican and Farringdon tube stations. Bus services (4, 56 and 153) are frequent and stop outside the university as shown above.

The CityNav app is also available for free download and will assist you in getting you around the university lecture rooms and other facilities; see www.city.ac.uk/maps

Lunch menus for ICPMG 2018

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<tr>
<th>Tuesday 17th</th>
<th>Wednesday 18th</th>
<th>Thursday 19th</th>
<th>Friday 20th</th>
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<tbody>
<tr>
<td><strong>Mains:</strong></td>
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<td><strong>Mains:</strong></td>
<td><strong>Mains:</strong></td>
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<tr>
<td>Chargrilled beef fillet with roasted mushrooms</td>
<td>Lamb and spinach Rogan josh</td>
<td>King prawns with lime and coriander</td>
<td>Mixed sandwich platters</td>
</tr>
<tr>
<td>Salmon en-croute</td>
<td>Grilled halloumi with roasted peppers and basil</td>
<td>Sweet potato curry (vegan)</td>
<td>Pan fried seabass with spring onions and chilli</td>
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<td><strong>Sides:</strong></td>
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<td><strong>Sides:</strong></td>
<td><strong>Sides:</strong></td>
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<tr>
<td>Five bean salad</td>
<td>Greek salad</td>
<td>Wild rice</td>
<td>Puy lentils, artichoke, sundried tomatoes</td>
</tr>
<tr>
<td>Roasted potatoes</td>
<td>A selection of juices</td>
<td>Roasted potatoes</td>
<td><strong>Dessert:</strong></td>
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<td><strong>Dessert:</strong></td>
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<td><strong>Dessert:</strong></td>
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<tr>
<td>Dark chocolate tart</td>
<td>Mango cheesecake</td>
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<td>Poached strawberries and mascarpone</td>
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Middle Temple Hall

Middle Temple Hall; is one of the four ancient inns of Court and overlooks the River Thames. Opened in 1573 the Hall still has many of its original features. Middle Temple Hall is tucked away from the busy London atmosphere on a cobbled and gas-lit street.

**Date/Time:** Wednesday 17th July between 18:30 – 21:30

**Venue address:** Middle Temple Hall, Middle Temple Lane, London, EC4Y 9AT

**Dress code:** Smart attire

**Getting there:**

The nearest tube stations are Blackfriars or Temple on the Circle & District Line.

The recommended route is from Blackfriars station. Exit the station onto Queen Victoria St and cross the road. Bear right towards New Bridge Street. Turn left onto Tudor Street and continue onto Kings Bench Walk. Turn left onto Crown Office Row, right onto Middle Temple Lane and the venue will be on the left.

From Temple station, walk north-east on Temple Place and turn left onto Milford Lane. Turn right onto Middle Temple Lane and the venue will be on the right.
Visiting London

Please ask ICPMG team members for help in planning your visits.

Here are a few of the ICPMG teams’ favourite attractions in London:

<table>
<thead>
<tr>
<th>Attraction</th>
<th>Information</th>
<th>Nearest station</th>
</tr>
</thead>
<tbody>
<tr>
<td>London Eye</td>
<td>The London Eye is on the bank of the River Thames and gives a unique view of the city's skyline.</td>
<td>Waterloo</td>
</tr>
<tr>
<td>Hampton Court Palace</td>
<td>The world-famous gardens of Hampton Court Palace include 60 acres of spectacular formal gardens and 750 acres of parkland, all set within a loop of the River Thames.</td>
<td>Hampton Court</td>
</tr>
<tr>
<td>Tower Bridge</td>
<td>Step inside the most famous bridge in the world and explore its iconic structure, spectacular views and glass floor, fascinating exhibitions and the atmospheric Victorian engine rooms.</td>
<td>Tower Hill</td>
</tr>
<tr>
<td>Tower of London</td>
<td>The Tower of London is officially Her Majesty's Royal Palace and Fortress of London. This historic castle is located on the north bank of the River Thames in central London.</td>
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</tr>
<tr>
<td>The National Gallery</td>
<td>The National Gallery showcases over 2,300 paintings from altarpieces to the Impressionists.</td>
<td>Charing Cross / Leicester Square</td>
</tr>
<tr>
<td>National Portrait Gallery</td>
<td>The National Portrait Gallery has promoted the painting of portraits and showcases the work of men and women who have impacted British history and culture since 1856.</td>
<td></td>
</tr>
<tr>
<td>Kew Gardens</td>
<td>Kew Gardens provides a world-leading environment where plants and fungi are understood, valued and conserved.</td>
<td>Kew Garden</td>
</tr>
<tr>
<td>Shakespeare's Globe Theatre</td>
<td>The iconic Globe Theatre stands a few hundred yards from its original site, where the impact of Shakespeare's work is shared and enjoyed.</td>
<td>Mansion House or Southwark</td>
</tr>
<tr>
<td>Tate Modern</td>
<td>The Tate Modern displays artwork from across the planet representing artists chosen for their contribution to its history and development.</td>
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<tr>
<td>London Transport Museum + Covent Garden</td>
<td>The London Transport Museum, in Covent Garden, conserves and explains the transport heritage of Britain's capital city.</td>
<td>Covent Garden</td>
</tr>
<tr>
<td>London Zoo</td>
<td>London Zoo was founded in 1826 and is a leading international scientific and educational charity whose mission is to promote the worldwide conservation of animals and their habitats.</td>
<td>Mornington Crescent</td>
</tr>
<tr>
<td>British Museum</td>
<td>The British Museum is a public institution dedicated to human history, art and culture with approximately 8 million works held in its permanent collection.</td>
<td>Tottenham Court Road / Russell Square / Holborn</td>
</tr>
<tr>
<td>Museum of London</td>
<td>A centre for social and urban history, and archaeological interests for London. The Museum of London is housed in a Grade I listed warehouse at Canary Wharf, not far from the river Thames.</td>
<td>Barbican / St Pauls</td>
</tr>
<tr>
<td>Natural History Museum</td>
<td>The Natural History Museum is a world-class visitor attraction and home to some 80 million items within five main collections of botany, entomology, mineralogy, paleontology and zoology.</td>
<td>South Kensington</td>
</tr>
<tr>
<td>Science Museum</td>
<td>The Science Museum is a world-class collection aiming to inspire visitors with award-winning exhibitions, iconic objects and stories of incredible scientific achievement.</td>
<td>South Kensington</td>
</tr>
<tr>
<td>V&amp;A</td>
<td>The V&amp;A is the world’s leading museum of art and design which houses a permanent collection of over 2.3 million objects that span over 5,000 years of human creativity.</td>
<td></td>
</tr>
</tbody>
</table>

Travelling around London

You have been provided with a Zones 1 – 2 travelcard that is valid from Monday 16th to Sunday 22nd July. This will enable you to:
- Use the tube and railway networks in Central London up to Zone 2.
- Use any Transport for London (TfL) bus in any zone.

If you would like to travel further than this you are advised to purchase an additional ticket from a tube or train station.

Alternatively you may use you contactless payment card to cover the cost of your travel.
- Overseas transaction fees or charges may apply for non-UK cards. This will be one charge per day, not each time you travel. Please check with your card issuer.

You can also get around the City of London in one of London’s iconic black taxis. You may hail a taxi on the street when the yellow ‘Taxi’ sign is illuminated. You can pay with cash or use your contactless credit or debit card to pay for your ride.

A tube map can be found in your delegate pack, however we recommend that you download the following apps to assist you in your travels around London:
- TfL tube map
- London Live Bus Times - TfL Buses
- The Trainline
- Uber

How to get to Heathrow Airport

Heathrow has three London Underground stations, Heathrow Terminals 2 & 3, Heathrow Terminal 4 and Heathrow Terminal 5 and are in Zone 6.
- Journey time from Central London: approximately 50 minutes
- Adult fares (Zones 1-6)
  - Pay as you go peak: £5.10 – Monday to Friday 06:30 - 09:30 and 16:00 - 19:00
  - Pay as you go off-peak: £3.10 – All other times including public holidays

How to get to London City Airport

London City Airport has a DLR is in Zone 3.
- Journey time from Central London: approximately 25 minutes
- Adult fares (Zone 1-3)
  - Pay as you go peak: £3.30 – Monday to Friday 06:30 - 09:30 and 16:00 - 19:00
  - Pay as you go off-peak: £2.80 – All other times including public holidays

How to get to Gatwick Airport

Gatwick Express trains from London Victoria, Southern trains from London Victoria and Thameslink trains from London Bridge go to Gatwick Airport.
- Journey time from Central London: approximately 35 minutes
- Adult fares (Zone 1-3)
  - Pay as you go peak: £3.30 – Monday to Friday 06:30 - 09:30 and 16:00 - 19:00
  - Pay as you go off-peak: £2.80 – All other times including public holidays

This information was obtained from London Transport at [http://content.tfl.gov.uk/visitor-leaflet-welcome-to-london-nov16.pdf](http://content.tfl.gov.uk/visitor-leaflet-welcome-to-london-nov16.pdf) where more information and visitor's attractions can be found.