**YOUNGOR 19 2015**

**Full Programme**

Author names are listed in the order of Presenter first then alphabetically.
All sessions and refreshments during the day, are in the Conference Aston Meeting Suite (CAMS)

**Tuesday 22 September 2015**

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| 09:15 | **Registration - coffee, tea – Litchfield Lounge** |
| 10:15 | **Welcome and Plenary - Steelhouse Theatre*****Vicky Forman – Chair of YOR19 followed by ‘OR in the Age of Big Data’Stewart Robinson, President of the OR Society***  |
| 11:30 | **Guide to Speed Networking + Speed Networking** |
| 12:30 | **Lunch - Litchfield Lounge** |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 13:30 | Analytics**Digital Analytics: You're** **Doing it All Wrong***Michael Mortenson* | Simulation**KEYNOTE:****Facilitated Simulation Modelling***Antuela* *Tako* | OR & Strategy**Engineering Manpower Modelling Application***Samantha* *Wyss* | Optimisation**KEYNOTE:****Pricing Optimization** **in the** **Airline** **Industry***Michael Benborhoum* |  | Health **Using AHP** **to Prioritise Pharma Industry Activity***Matthew* *Mildred and* *Trang Ngo* |
| 14:00 | Analytics**Adapted Concept Develop-****ment Assessment Game***Jennie Gozzi* *and Karl* *Skoog* | OR & Strategy**Cooperative Game** **Theory and** **a Proof** **of the** **Eurozone***Yupei Zhong* | Energy &Climate Change **Energy** **System Modelling** **for** **Climate Change***Ajay Gambhir* | Health **Modelling** **A&E Waits,** **A Phase-****Type Simulation Approach***Laura M.* *Boyle and* *Adele H.* *Marshall* |

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| **YOR19 Tuesday 22 September 2015** |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 14:30 | Analytics **Criminal Careers Analysis** **of** **Young Offenders***Radka* *Kozarova and Robyn* *Smith* | Simulation**An** **Agent-Based Model of** **Supply** **Chain** **Collabor-****ation***Niniet Indah Arvitrida,* *Stewart* *Robinson* *and* *Antuela Tako* |  | Optimisation**EXT.ABSTRACT** **Multi-Organisat-****ional** **Disaster Manage-****ment***Oscar Rodrigues-Espindola,* *Pavel Albores* *and* *Christopher Brewster* | Energy &Climate Change **Can We** **Power the Home of** **the Royal Navy?***Ben Ludford* | Health **Capacity Planning** **with Monte Carlo Simulation***Xing Xie and Navid Izady* |
| 15:00 | Analytics **From** **Sankey to** **Swanky***Katharine Etheridge* | Simulation **Optima** **Predict: Simulating Emergency Services.***Leanne* *Smith* |  | Optimisation**Workforce Manage-****ment***Hanjing* *Zhang, Sarah Dunnett, Lisa Jackson,* *Jiyin Liu and Antuela Tako* | Energy &Climate Change**Global** **Carbon** **Finance** **Model: Workings** **& Inputs***Duncan Gray* *and Tim Johnston* | Health**Robust Operating Theatre Scheduling***Elizabeth* *Rowse* |
| 15:30 | **Break - coffee, tea - Litchfield Lounge** |
| 16:00 | Analytics **Improving** **the Performance** **of Credit** **Risk** **Scorecard***Emily Verdon* | Simulation**Distributed Investment Decisions** **& Over-****confidence***Stephan* *Leitner, Doris A.* *Behrens and Alexandra* *Rausch* | A Young OR Guide **Tips for Facilitated Simulation Modelling***Antuela Tako* | Optimisation **Batch Optimisation***Nikolas Stockbroekx* *and Emel* *Aktas* | Energy &Climate Change**Global Carbon Finance** **Model: Assumptions** **& Outputs***Duncan Gray* *and Tim* *Johnston* | Health **Modelling Survival** **In** **Oncology***Hamish* *Lunagaria* *and Matt* *Watkins* |
| 16:30 |  | Simulation **The Use of Simul8 in Transport Consultancy***Grace* *Francombe* | A Young OR Guide **Working** **With Open Source Mapping** **Data***Neil Urquhart* | Optimisation **A First-Order Multigrid Method for Convex Optimiza***Sudaba Mohammed* *and Michal Kocvara* | MCDA **Applying MCDA****in the** **Context of HTA: A Case** **Study***Aris Angelis, Panos Kanavos and Gilberto Montibeller* | Health **Worksystem Redesign** **of Nursing Home Antibiotic** **Use***Edmond Ramly,* *Mozhedeh Bahrinian, Chris Crnich, James Ford and David Nace* |
| **YOR19 Tuesday 22 September 2015** |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 17:00 |  | Simulation **Simulation Modelling** **in the Fire Service***Andrew* *Greggan* | A Young OR Guide **A Young** **OR Guide to The OR** **Society***Gavin Blackett and Louise* *Allison* | System Dynamics**KEYNOTE:** **Agile** **System Dynamics***Kim Warren* | MCDA **Uncertainty** **in** **MCDA***Shane* *Ó Meachair* |  |
| 17:30 |  |  | A Young OR Guide**Optimisation***Oscar* *Rodrigues-Espindola,* *Pavel Albores* *and* *Christopher Brewster* | MCDA **Police** **Officer Dynamic Positioning***Johanna* *Leigh, Sarah Dunnett* *and Lisa* *Jackson* |  |
| 18:00 | Close Tuesday 22 Sept  |

**YOR19 Wednesday 23 September 2015**

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|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 08:30 | **Registration - coffee, tea - Litchfield Lounge** |
| 09:30 | Stochastic Modelling **Staffing****Time-Dependent Dual-Class Service Systems***Julie Vile, Jonathan**Gillard, Paul Harper and Vincent**Knight* | Analytics **Optimising Decisions****for Profit****& Success***Ben Archer* *and Anne**d'Elboux* | Defence & Security **Sense and Sensitivity***Cecilia**Dahlgren**and Jan**Frelin* | Supply Chain**Predictive****Control of Perishable Inventory***Joanna**Orzechowska, Andrzej**Bartoszewicz,**Keith J.**Burnham and Dobrila**Petrovic* | Energy &Climate Change **DECC/UCL Optimal Energy Pathways***Birgit Fais,**Bevan**Freake and Jonathan* *Tecwyn* | Consultancy **Big Data****and****Operational Research***Shivam Desai* |
| 10:00 | Stochastic Modelling**Strategic Sensing in Cognitive****Radio Networks***Ran Snitkovsky**and Refael**Hassin* | Analytics **Mclaren Applied Technologies***Angelico**Fetta* | Defence & Security **Evidence-Based** **Decision Support-Transport Security***Karen**Chapman* | Supply Chain**KEYNOTE:** **Cheers! – Modelling****the Supply****Chain of****Beer***Katinka van**de Velde* | Consultancy **Quick Win Through****Supply****Chain****Design***Tin Leung* |
| 10:30 | Stochastic Modelling**KEYNOTE: Stochastic Strategic Behaviour***Vincent**Knight* | System Dynamics **Action Selection****for Virtual Humans***Oliver Handel* | Defence & Security **OA in the Swedish Armed****Forces***Kristofer* *Hallgren* | Energy &Climate Change **Upside** **Energy***Graham**Oakes* | Consultancy **Workforce Planning Modelling****At EY***Alexandra Mishenina**and Joe**Wood* |
| 11:00 | System Dynamics **System Dynamics Modelling****of the****Rural Care****Gap***Jennifer**Morgan* | Defence & Security **What is the Cost of Defence?***Tommy Lodge* |  | Energy &Climate Change **Using SSM to****Underpin****An** **Evaluation***Amy Coleman* | Consultancy **'Gamification' at EDF****Energy***Alastair* *Brown* |
| **YOR19 Wednesday 23 September 2015** |
| 11:30 | **Break - coffee, tea - Litchfield Lounge** |
| 12:00 | **Plenary - Steelhouse Theatre** ***‘Widening O.R.’s customer base: from Bawdsey Manor to Pro Bono’Graham Rand, Lancaster University*** |
| 13:00 | **Lunch - Litchfield Lounge** |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 14:00 | Stochastic Modelling **Solve Maintenance Planning Problems****By****Q-Learning***Junchi Tan* | System Dynamics **Simulation-Based****Planning for New****Drug****Strategy***Ross Kazakov**and Penka Petrova* | Optimisation**KEYNOTE:** **MOP-MRE***Dylan Jones* | Supply Chain **Supply****Chain****Network Optimisation****A Case****Study***Byron Song* | Energy &Climate Change **KEYNOTE: Itheca** **Project***Jim Scott* | Health **KEYNOTE: Predicting Norovirus****Rises using Twitter***Callum Staff* |
| 14:30 | Stochastic Modelling **Prison** **System Modelling:****A****Comparison****of****Approaches***Ffion Jones**and Hannah Neech* |  | Supply Chain**Supply****Chain****Resilience***Jay Edwards* | Energy &Climate Change **Modelling Hinkley****Point C***Andrew**Stothart* |

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| **YOR19 Wednesday 23 September 2015** |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 15.00 |  | **WORKSHOPDeciphering** **a Puzzle** **as a Data Scientist.***Sayara Beg* | **WORKSHOPFrom Theory** **to Reality - What else** **do I need** **to be an** **OR consultant?*Kuangyi Liu***  | **WORKSHOPRunning Outreach Events:** **a game theoretic exemplar*****Vince Knight*** | **WORKSHOPHow OR is Practically** **used** **within** **the Airline Industry*****Rasseeda*** ***Virgo and*** *Andrew Long* | **WORKSHOP****Simulation Modelling** **with** **AnyLogic*Dave Buxton*** |
| 16:00 | **Break - coffee, tea - Litchfield Lounge** |
| 16:30 |  | **WORKSHOPDeciphering** **a Puzzle** **as a Data Scientist.***Sayara Beg* | **WORKSHOPFrom Theory** **to Reality - What else** **do I need** **to be an** **OR consultant?*Kuangyi Liu***  | **WORKSHOPRunning Outreach Events:** **a game theoretic exemplar*****Vince Knight*** | **WORKSHOPHow OR is Practically** **used** **within** **the Airline Industry*****Rasseeda*** ***Virgo and*** *Andrew Long* | **WORKSHOP****Simulation Modelling** **with** **AnyLogic*Dave Buxton*** |
| 17:30 | Close Wednesday 23 September |

**YOR19 Thursday 24 September 2015**

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|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 08:30 | **Registration - coffee, tea - Litchfield Lounge** |
| 09:30 |  | A Young OR Guide **Pro Bono** **O.R.***Felicity* *McLeister* | Disaster Management **Business Continuity Planning****For Smes***Puttipong Anantasopon* | Stochastic Modelling **Modelling****of Chest Pain within ED***Andrew**Salmon, Chris Hyde,**Martin Pitt, Sebastian Rachuba,**Scott Watkins**and Zhivko**Zhelev* | Energy &Climate Change **Interactive Session: National Household Model***Kieran**Ingram and Phoebe**Zhang* | Health**Process Management in** **Healthcare Delivery***Ganye**Kwah-**Driscole* |
| 10:00 | DEA **Dynamic Framework****for Queues****in****Developing Nations***Komal Aqeel Safdar,**Prasanta Kumar Dey and**Ali Emrouznejad* | A Young OR Guide **Have Your** **Say: Developing** **The OR Society's** **New Web***Louise Allison* *and Navin* *Mair* | Disaster Management **A Time****Series Approach****for Wave Height Prediction***Siobhan Moran, Jim Duggan**and Enda**Howley* | Stochastic Modelling**Queueing Networks for****a Healthcare System.***Geraint Palmer and Paul**Harper* | Health **Dissecting the UK Military Medical Chain***Michael* *Hartley and* *Laura**Brudenell* |
| 10:30 | DEA **Analysis****of****Performance****of****Incineration Plants***Konstantinos Petridis and Prasanta Dey* | Metaheuristics**Designing Metaheuristics***Alina Patelli,**Nelly Bencomo, Aniko Ekart,**Harry Goldingay and**Peter Lewis* | Disaster Management **Nurse Emergency****and Disaster Preparedness***Fuad**Alzahrani* |  | Energy &Climate Change **New Build, New Opportunity***Anthony**Collins* | Health **ER Rules****for Asthma Control Stages Prediction***Huaying Zhu, Jian-bo Yang* *and* *Dong-ling**Xu* |
| 11:00 | **Break - coffee, tea - Litchfield Lounge** |

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| **YOR19 Thursday 24 September 2015** |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 11:30 | DEA**Assessment****of Police Stations****using DEA***Rhoda Namoco**and Alfredo**Vicera Jr.* | Metaheuristics**Vehicle Routing using Iterated Greedy Local Search***Abdulwahab Almutairi,**Dylan Jones, Angel Juan, Banfsheh**Khosravi and Djamila Ouelhadj* | Disaster Management**EXT.ABSTRACT****Effect of Coordination for Relief Distribution***Priyanka Roy, Pavel Albores, Christopher Brewster and Chris Owen* | Defence &Security **Army Regular****/ Reserve****Cost Comparison***Ashley**Smith* | Energy &Climate Change**Challenges****of Weather****and Climate Modelling***Matthew Mizielinski, Robert Dunn**and Nick Dunstone* | Health **Work System Redesign in Specialty Clinics***Edmond**Ramly* *and Christie**Bartels* |
| 12:00 | DEA **DEA-Chinese MSW Incinerators Efficiency Assessment***Konstantinos Petridis, Vinay Dutta Vemula and Prasanta K Dey* | Metaheuristics **Weights Distribution****And Instance Hardness***Khulood**Alyahya and Jonathan**Rowe* | Disaster Management **PREDIS Evaluation***Sara Hasani,**Emel Aktas**and* *Ramzi El-Haddadeh* | Defence &Security **Managing Defence Acquisition Growth***Ryan Watson, David Bangert and Neil**Davies* | Supply Chain **Scheduling Handling Operations****in a Storage****Yard***Sam Heshmati,**Wim Vancroonen-**Burg and* *Greet Vanden Berghe* | Health **Interactive Planning****for Assisted Living Quality***Edmond**Ramly* |
| 12:30 | DEA**KEYNOTE:** **Identifying****Cost****Efficient****Health Care Practice***Emmanuel Thanassoulis* | Metaheuristics **Artificial Immune****System for****MO Optimization***Ayush Joshi, Jonathan* *Rowe**and Christine Zarges* | Disaster Management **PREDIS (Predictive Disaster Decision Technique)***Sara Hasani,* *Emel Aktas* *And Ramzi El-Haddadeh* | Defence &Security**Monitoring****The Health****of the****Defence Enterprise***Karen Chapman* | Supply Chain **Vehicle Fill****Vs Service****Level in Simulation***Victoria**Forman* | Health **Budget Impact Analysis in Animal Health***Nikco Hau**And* *Sam Mettam* |
| 13:00 | **Lunch - Litchfield Lounge - HALF an HOUR** |
| 13:30 | **Plenary - Steelhouse Theatre** ***‘Fan Engagement in Sport’ Alex Phillips, IBM UK Ltd*** |
| 14:30 | **Careers Panel – Steelhouse Theatre****Discussion on topical career issues followed by a Question and Answer session*Pavel Albores, Aston University - Mark Chapman, Prospect Recruitment Jon Nicholas, LLamasoft Europe – Alex Phillips, IBM United Kingdom Ltd*** |
| 16:00 | Conference Close  |