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3rd International Conference on
**Quantum Optics and
Quantum Computing**

September 10-11, 2018 | London, UK

**Speaker
Slots
Available**

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Tentative Program

Dear All,

We are extremely delighted to host the 3rd International Conference on Quantum Optics and Quantum Computing.

Quantum Optics 2018, is a conference that offers outstanding content infused with a truly social experience. It is an event that brings all the recruited experts, Researchers and Academicians who live and breathe the subject.

The conference program emphasizes evidence-based practice, educational innovation, practical application, and peer to peer networking and collaboration. The goals of the conference is to provide a trans formative professional development experience by this platform.

We invite your participation for this mega scientific event set to happen in London this year as we start to prepare the dais for a grand discussion with the theme “Towards Full Stack of Computing and Optical Science in Quantum Era”.

Regards

Organizing Committee
Quantum Optics 2018 London

Speaker Slots Available



Quantum Optics 2018 London conference calls for the newest and healthiest proposals for the Meet from researchers, industrial personnel and pioneering students.

This summit is designed to meet every nook and corner research topic related to the advancement in the research and development of Quantum Optics and Computing such as Quantum Optics related academicians, industrialists and researchers etc.

Speaker Slots Available

TRACK

Quantum Computing



Thomas Baeck

Professor
Leiden University
The Netherlands

Biography:

Thomas Bäck is full professor of computer science at the Leiden Institute of Advanced Computer Science (LIACS), Leiden University, The Netherlands, since 2004. His research interests are in the areas of evolutionary computation and related heuristic search and optimization methods, and in algorithm configuration and predictive analytics – with a strong emphasis on industrial applications. In combinatorial optimization, he is also working on exploring the potential of quantum annealing for solving such problems. In his work with industrial partners in the industry 4.0 domain, he collaborates with companies such as, e.g., BMW, Daimler, Honda, Tata Steel, and KLM. Thomas Bäck has more than 300 publications and authored a book on evolutionary algorithms, (Evolutionary Algorithms: Theory and Practice). He is co-editor of the Handbook of Evolutionary Computation and the Handbook of Natural Computing, and co-author of the book Contemporary Evolution Strategies (Springer, 2013).

TRACK

Quantum Optics | Quantum Photonics



Michael E. Reimer

Professor | University of Waterloo, Canada

Biography:

Michael Reimer joined the Institute for Quantum Computing (IQC) in 2015. After receiving his BSc in Physics at the University of Waterloo, He then went on to earn his MSc in Engineering Physics at the Technical University of Munich in Germany. In 2010 he obtained his PhD in Physics at the University of Ottawa/National Research Council of Canada. In 2013, Michael was also an integral part of a recent start-up company, Single Quantum, developing highly efficient single-photon detectors based on superconducting nanowires. His research will focus on the development of quantum photonic devices and optical approaches needed to advance quantum information science and technologies.

TRACK

Quantum Optics



Yoshihisa Yamamoto

Scientist
Stanford University
USA

Biography:

Yoshihisa Yamamoto received his B.S. degree from Tokyo Institute of Technology and his M.S. and Ph. D. degrees from the University of Tokyo in 1973, 1975 and 1978, respectively. He is a Program Manager for Impulsive Paradigm Change through Disruptive Technologies Program (ImPACT) of the Council for Science, Technology and Innovation of Cabinet Office of Government of Japan. He is currently a Professor (emeritus) of Stanford University and National Institute of Informatics, and NTT R&D fellow. His research interest has been in quantum optics and quantum information processing, especially quantum neural network and coherent Ising machine.

TRACK

Quantum Mechanics



J. Gonzalo Muga

Full Professor
UPV/ EHU, Bilbao
Spain

Biography:

Professor J. G. Muga is Professor at the Department of Physical Chemistry, UPV/EHU, Bilbao, Spain, since 1999. He got his Ph. D in 1986 in Bilbao, and after postdoctoral work in Brussels (with I. Prigogine), Jerusalem (with R. D. Levine), Vancouver (with R. F. Snider), and Madrid (with A. González Ure), he was affiliated with La Laguna University, Spain, for nine years. Professor Muga's research interests include Foundations of Quantum Mechanics (formulation of time observables) and engineering the dynamics of Quantum Systems.

Speaker Slots Available

TRACK

Heat Transfer System | Aerodynamics



Ling Hao

Principal Research Scientist
National Physical Laboratory
UK

Biography:

Ling received the BSc degree in general physics and the MSc degree in solid state physics from Beijing Normal University, China. She moved to the UK in 1992 and received the PhD degree at the Department of Physics and Applied Physics, University of Strathclyde, UK, for research on electronic noise in superconducting devices in 1995. Since then she has worked at NPL. She has published more than 100 papers in refereed journals and two book chapters. Ling is also a visiting professor at Imperial College and a member of the Superconductivity Committee of the Institute of Physics. She is leading work on applications of nanoscience, superconducting electronics and microwave technology for precision measurements, aimed at single particle measurements and metrology with Nano SQUIDs and nanoelectromechanical system (NEMS) resonators. She is also working on low dimensional carbon, including carbon nanotubes and graphene transport measurements.

TRACK

Quantum Field Theory



Claudio Verzeqnessi

Professor
University of Udine
Italy

Biography:

Claudio Verzeqnessi did his diploma in Diploma di Maturità at Liceo Classico F. Petrarca, Trieste, Italy in the year 1959. Also he gained his university degree in Theoretical physics, at University of Trieste in 1964. He started his working career in the year 1965, from University of Trieste, dept. of Theoretical Physics as a professor. Recently, he is working as a researcher at University of Udine, Polytechnic of Engineering and Architecture.

TRACK

Quantum Thermodynamics



Jamal Berakdar

Professor
Martin-Luther-Universität Halle-Wittenberg
Germany

Biography:

Jamal Berakdar is a theoretical physicist with research interests in various aspects of electronic many-body systems with emphasis on time and spin-dependent processes. After the undergraduate years at the Universities of Heidelberg and Freiburg in Germany, he took a PhD in theoretical Physics in 1994 from the University of Freiburg followed by a postdoctoral period at the Royal Holloway College, University of London. From 1995-1997 he spent a research stay on a Humboldt fellowship at the Australian National University, Canberra, and from 1997-2006 he was a staff scientist at the Max Planck Institute of Microstructure Physics, Halle, Germany. From 2006- present he has been a full professor of theoretical physics at the Martin Luther University, Halle, Germany.

TRACK

Quantum Nano Science and Nano Physics



Detlev Grützmacher

Director
Peter Grünberg Institute
Germany

Biography:

Prof. Dr. Detlev Grützmacher was born in 1960 in Hamburg, Germany. He studied Physics at Georgia Augusta University Göttingen and RWTH Aachen, where he received his PhD with special honors. During this time he build a MOVPE system, which became the prototype of the Aixtron 200, making Aixtron to one of the most successful start-up companies. Subsequently he joined IBM for a 2 year post doc term at Yorktown Heights, NY. His work on SiGe epitaxy and devices was honored by IBM with a research and an innovation achievement award. In 1993 he joined the Paul Scherrer Institute, Villigen Switzerland, to build up a group for Silicon photonics from scratch. The group was very successful in third party acquisition, thus Detlev Grützmacher was send by the PSI management to a business course on managing technology enterprise at the prestigious IMD, Lausanne (Switzerland). In parallel he completed his Habilitation at the University of Konstanz (Germany) in 2001. Since 2006 he is director of the Institute of Semiconductor Nanoelectronics at FZ-Jülich and Professor at the RWTH-Aachen.

Speaker Slots Available

Day 1: Opening Ceremony

- Registrations Final attendance of the participants
- Introduction Day 1 kicks off by Moderator's introductory speech
- Guest's Speak Briefing the conference theme by Honorable Guest

Day 1 Sessions

- Keynote Bout Talks covering the Theme of the Conference
- Coffee Break Coffee and Candid shots of the Group
- Oral Session 1 Quantum Optics | Quantum Mechanics
- Special Session A exclusive Exhibitor hosted session/Workshop for effective B2B chance
- Luncheon Networking over Lunch
- Oral Session 2 Interpretation of Quantum Mechanics | Quantum States
- Coffee Break Post-lunch coffee break session for networking
- Oral Session 3 Case studies/General discussions

Day 2 Sessions

- Keynote Bout Re-opening the day with Keynotes again
- Coffee Break Coffee and Networking
- Oral Session 4 Quantum Field Theory | Quantum Thermodynamics
- Luncheon Networking over Lunch
- Oral Session 5 Quantum Photonics | Quantum Plasmonics
- Coffee Break Post-lunch coffee break session for networking
- Poster Session Accepted Poster presentations
- YRF Presentation Selected Students' Oral Presentations
- Closing Session Award Ceremony & Thank you note by Moderator
- Coffee Break Coffee and Refreshments

Speaker Slots Available

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Application of superconducting electronics to quantum optics and quantum metrology.

Ling Hao, National Physical Laboratory, UK

Biography: Ling received the BSc degree in general physics and the MSc degree in solid state physics from Beijing Normal University, China. She moved to the UK in 1992 and received the PhD degree at the Department of Physics and Applied Physics, University of Strathclyde, UK, for research on electronic noise in superconducting devices in 1995. Since then she has worked at NPL. She has published more than 100 papers in refereed journals and two book chapters.

Title: Relevant magnetic effects on free electrons in QFT.

Claudio Verzegnassi, University of Udine, Italy

Biography: Claudio Verzegnassi did his diploma in Diploma di Maturità at Liceo Classico F. Petrarca, Trieste, Italy in the year 1959. Also, he gained his university degree in Theoretical physics, at University of Trieste in 1964. He started his working career in the year 1965, from University of Trieste, dept. of Theoretical Physics as a professor. Recently, he is working as a researcher at University of Udine, Polytechnic of Engineering and Architecture.

Title: Donors in ZnSe: A raising multifunctional qubit for photonics mediated quantum information technology : Fluorine

Alexander Pawlis, Peter Grünberg Institut, Germany

Biography: Alexander Pawlis is an expert on material science, nanotechnology and epitaxy of II/VI and III/V semiconductors. After habilitation in 2012 Alexander Pawlis founded a junior research group at University of Paderborn on material science and quantum optics with II/VI materials.

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: A Highly Sensitive Microscopic Microphone Based on Cavity Opto-Mechanics.

Sahar Basiri-Esfahani, Swansea University, Swansea, Wales, UK

Biography: Sahar Basiri-Esfahani completed her PhD in 2015 in Professor Gerard Milburn's group at the University of Queensland in Australia. Her PhD work was mainly focused on quantum measurement and control in single photon cavity opto-mechanics. She has then worked at Queensland Quantum Optics Lab as a postdoctoral researcher until 2017. She is now a Ser Cymru COFUND Fellow working at the physics department of Swansea University in the area of open quantum systems.

Title: Improved optical-field reconstruction of ultrashort pulses by two-step phase-shifting spectral interferometry.

Yi Cai, Shenzhen University, Shenzhen, China

Biography: Yi Cai is an Assistant Professor in College of Electronic Science and Technology, Shenzhen University. has completed his PhD in 2010 from Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences (CAS) in the year of 2010. His research interests include ultrafast laser measurement and ultrafast imaging. His researches are supported by the National Natural Science Fund (China), and Specialized Research Fund for the Shenzhen Strategic Emerging Industries Development..

Title: Quantum optics with shaped nanowires.

Michael E. Reimer, University of Waterloo, Canada

Biography: Michael Reimer joined the Institute for Quantum Computing (IQC) in 2015 as an Assistant Professor in the Electrical and Computer Engineering department. After receiving his BSc in Physics at the University of Waterloo, Michael spent two years in industry at JDS Uniphase as an R&D Engineer. He then went on to earn his MSc in Engineering Physics at the Technical University of Munich in Germany. In 2010 he obtained his PhD in Physics at the University of Ottawa/National Research Council of Canada.

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Quantum electrodynamics with an artificial atom in a superconducting circuit

Pol Forn-Díaz, Barcelona Supercomputing Center - CNS, Spain

Biography: Pol Forn-Díaz has completed his PhD at the age of 28 years from the Delft University of Technology and postdoctoral studies from the California Institute of Technology and the Institute for Quantum Computing at the University of Waterloo. He leads the experimental team of QUANTIC group at the Barcelona Supercomputing Center. He has published more than 15 papers in reputed journals and is an advisor and partner of Entanglement Partners SL.

Title: Analysis of Polarization Coding for Subcarrier Multiplexing Quantum Key Distribution

Hailin Xiao, Guilin University of Electronic and Technology, China

Biography: Dr. Xiao has published over 120 papers in international journals, including IEEE Transactions on Information Theory, IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Vehicular Technology, Applied Physics Letter /Journal Applied Physics, etc. He has served as assistant editor of International famous academic journals, and served as expert reviewer to audit and review government research programmes in China.

Title: Quantum Neural Network and Coherent Ising Machine.

Yoshihisa Yamamoto, Stanford University, USA

Biography: Yoshihisa Yamamoto received his B.S. degree from Tokyo Institute of Technology and his M.S. and Ph. D. degrees from the University of Tokyo in 1973, 1975 and 1978, respectively. He is a Program Manager for Impulsive Paradigm Change through Disruptive Technologies Program (Impact) of the Council for Science, Technology and Innovation of Cabinet Office of Government of Japan.

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Quantum thermodynamics and thermal quantum information transfer

Jamal Berakdar, Martin-Luther University, Germany

Biography: Jamal Berakdar is a theoretical physicist with research interests in various aspects of electronic many-body systems with emphasis on time and spin-dependent processes. After the undergraduate years at the Universities of Heidelberg and Freiburg in Germany, he took a PhD in theoretical Physics in 1994 from the University of Freiburg followed by a postdoctoral period at the Royal Holloway College, University of London.

Title: Donors in ZnSe: A raising multifunctional qubit for photonics mediated quantum information technology: Fluorine

Detlev Grützmacher, Peter Grünberg Institut, Germany

Biography: Detlev Grützmacher was born in 1960 in Hamburg, Germany. He studied Physics at Georgia Augusta University Göttingen and RWTH Aachen, where he received his PhD with special honors. During this time he build a MOVPE system, which became the prototype of the Aixtron 200, making Aixtron to one of the most successful start-up companies. Subsequently he joined IBM for a 2 year post doc term at Yorktown Heights, NY. His work on SiGe epitaxy and devices was honored by IBM with a research and an innovation achievement award.

Title: Quantum Annealing for Solving Combinatorial Optimization Problems

Thomas Baeck, Leiden University, The Netherlands

Biography: Thomas Bäck is full professor of computer science at the Leiden Institute of Advanced Computer Science (LIACS), Leiden University, The Netherlands, since 2004. He received his PhD in Computer Science (under supervision of Hans-Paul Schwefel) from Dortmund University, Germany, in 1994, and then worked for the Informatik Centrum Dortmund (ICD) as department leader of the Center for Applied Systems Analysis

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Coherence proprieties of entangled bi-photon field and its application in holography and communication

Nicolae A. Enaki, Institute of Applied Physics, Republic of Moldova

Biography: Nima Sabzchamanara has completed his dental study from National Medical University Kiev Ukraine. He is the student of first year Residency program in the Department for Therapeutic dentistry. He has published one abstract in a reputed dental journal.

Title: Crossover in the quantum metallic ground state in a two-dimensional superconductor

Linjun Li, Zhejiang University, China

Biography: Linjun Li has his interests and expertise in synthesis and transport measurement of semiconductors, superconductors. He fabricated samples and devices of iron-pnictides and transition metal dichalcogenides, investigated their transport properties specially on their vortex related behavior, revealed exotic quantum states including spatially inhomogeneous electronic ground states.

Title: An Information-Theoretic Perspective on the Quantum Bit Commitment Impossibility Theorem.

Naya Nagy, Imam Abdulrahman Bin Faisal University, Saudi Arabia

Biography: Naya Nagy has completed her PhD in 2010 from Queen's University. She is currently an Assistant Professor at Imam Abdulrahman Bin Faisal University, Saudi Arabia, in the Computer Science Department. She has done research in quantum cryptography and multidisciplinary fields connected to Computer Science.

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Spatial Architecture Impact in Mediation Open Circuit Voltage Control of Quantum Solar Cell Recovery Systems.

Moustafa Osman Mohammed, Alexandria University, Canada

Biography: Moustafa Osman Mohammed civil engineer with BSc in Alexandria University and MSc in environmental technology. In 2011, I have completed my PhD in environmental engineering. I approach innovation concept in architecture design analysis by prediction of environmental impact of systems ecology. I have different publications in environmental management and pollution control for attendance conference in Zurich.

Title: An Information-Theoretic Perspective on the Quantum Bit Commitment Impossibility Theorem

Marius Nagy, Prince Mohammad Bin Fahd University, Saudi Arabia

Biography: Marius Nagy obtained his Ph.D. degrees in Computer Science from Queen's University at Kingston, Ontario in 2007. His Ph.D. thesis focuses on novel applications of quantum mechanics into information processing and data security. Dr. Nagy was appointed as Assistant Professor in the College of Computer Engineering and Science at Prince Mohammad Bin Fahd University, Al Khobar, Kingdom of Saudi Arabia.

Title: Nanocrystal silicon growth under electron irradiation

Wei-Qi Huang, Institute of Nanophotonic Physics,

Biography: Professor Huang is the Head of pulsed laser etching (PLE) and pulsed laser deposition (PLD) research laboratory and Institute of Nanophotonic Physics in Guizhou University.

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Towards a Deterministic and Local Interpretation of Quantum Mechanics

Eduardo Nahmad-Achar, Institute for Nuclear Sciences, Mexico

Biography: Eduardo Nahmad-Achar has been an active researcher in the fields of General Relativity, Physics and Chemistry of Polymers, Quantum Optics, Relativistic Properties of Important Quantities in Quantum Information Theory, and Foundations of Quantum Mechanics. He was also Founding Director of the Centre for Polymer Research, nr. Mexico City, Mexico.

Title: Crystallizing nanostructures and emission on black silicon prepared by ns-laser

Zhong-Mei Huang, Institute of Nanophotonic Physics, China

Biography: Dr. Huang is the worker of pulsed laser etching (PLE) and pulsed laser deposition (PLD) research laboratory and Institute of Nanophotonic Physics in Guizhou University, she has a long-established international record in PLE and PLD grown nanosilicon and nanosemiconductor quantum materials and development of their applications in optoelectronics.

Title: Subwavelength Focal Depth Enrichment for magnetic recording using specially designed phase plate

P. Suresh, R & D Institute of Science and Technology

Biography: Dr. P. Suresh graduated in Electronics and Communication Engineering, from Anna University in 2008. In the year 2010, he received his master's degree in Embedded System Technologies from Anna University of Technology and Doctoral Degree from Anna University in 2014. He is currently working as Associate Professor in Dept. of Electronics and Communication Engineering at Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai.

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Quantum Circuits: Performing Quantum Tasks on IBM Quantum Computer

Bikash Kumar Behera, Indian Institute of Science Education and Research

Biography: Bikash Kumar Behera has an expertise in the field of quantum computation and quantum information. My current research interests include quantum computation, quantum simulation, quantum devices, quantum communication, quantum machine learning, quantum artificial intelligence.

Title: Thermodynamic molecular interaction studies in the mixtures of triethylene glycol and glycerol

Kirandeep Kaur, Lovely Professional University

Biography: Kirandeep Kaur is pursuing PhD in the field of molecular interaction study of some sugar free alcohols with glycols, from Lovely Professional University. Her research leads to create awareness about usage of sugar-free/diet products. She has published 5 research papers in reputed journals.

Title: Effect of wiggler magnetic field on stimulated surface plasma wave in a semiconductor

Niti Kant, Lovely Professional University

Biography: Niti Kant is working at the Department of Physics, Lovely Professional University, Punjab, India. He received Ph.D in Laser-Plasma Interaction in 2005 from IIT Delhi. His research is focused on the areas of ultra-short intense lasers interaction with plasmas, laser-plasma based accelerators, harmonic generations, quantum plasma and THz radiation. He was Postdoc Fellow at POSTECH, South Korea from Dec. 2005 to Feb. 2007.

PROVISIONAL PROGRAM

Tentative Speakers

Speaker Slots Available

Title: Second harmonic generation of Self-focused chirped laser pulse in cold quantum plasma

Vishal Thakur, Lovely Professional University

Biography: Vishal Thakur is working at the Department of Physics, Lovely Professional University, Punjab, India. He received Ph.D in High power Laser Interaction with Plasma and Semiconductors in 2016 from Lovely Professional University Phagwara.

Title: The NiO nanorode formation and its activate photocatalyst by reduced graphene oxide.

Ahmad Yazdani, Tarbiat Modares University

Biography: Ahmad Yazdani had done his MSC from University of Oregon (USA). He completed his PhD in Greece atomic energy center. During these years he has two common PhD student with prof. roos on university of Sanford(UK) and 2 sabbaticals on University of Warwick (UK) and University of Delaware. He was 2 years as research deputy of university and now he is head of department of condense matter physics.

Title: Particle and wave transport in driven quantum networks

Doniyor Babajanov, Turin Polytechnic University

Biography: Doniyor Babajanov is research assistant in Turin Polytechnic University in Tashkent. His main field of study is theoretical physics. Doniyor's research interests are: (i) Nonlinear evolution equations on branched systems and networks, (ii) Condensed matter physics: particle transport in low-dimensional nanoscale systems, (iii) Cold atom physics: Nonlinear dynamics of BEC and vortices.



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A very few students can hold on to the opportunity of giving an Oral Presentation along with those highly affiliated expert minds. Exceptional abstracts can grab this chance and exhibit their research verbally.

Speaker Slots Available

INDUSTRY REPRESENTATIVE

Communicate the ideas on behalf of your organization in the form of a scientific talk or be a delegate to proxy your company's attendance at the Meet.

INTERACTIVE BOOTHS

Showcase the latest product or service of your industry. Book your booth and avail free passes to the conference sessions.

Speaker Slots Available

B2B and B2A SESSIONS

At the Quantum Optics 2018 London, industries are welcome to display their products in the industrial exhibition, organise a symposium/workshop or benefit from many other sponsoring opportunities.

Experience the demonstration of finest ideas from best speakers of this field, meet with industry partners and customers, and examine recent market trends and opportunities- all over the luncheon and coffee break sessions.

Minimise this gap between the lab and the industry, meet your rivals and contemporary only at Quantum Optics 2018 London

For details of the conference click:

<https://quantumoptics.physicsmeeting.com/>

Sponsorship & Exhibiting Opportunities are open for benefits of and exposure among a diverse range of attendees at Quantum Optics and Computing

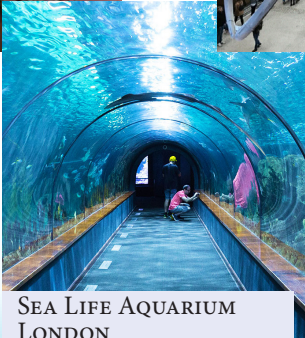
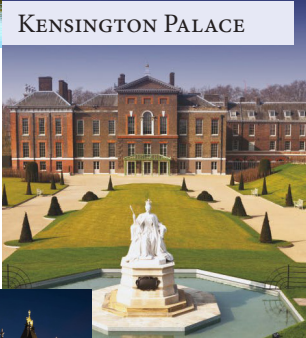
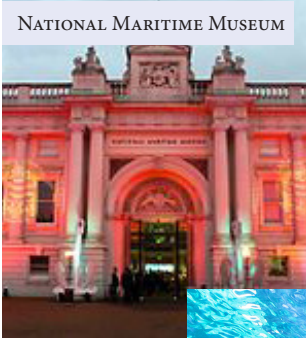
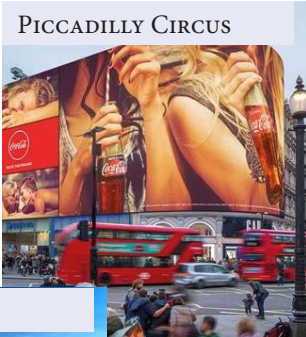
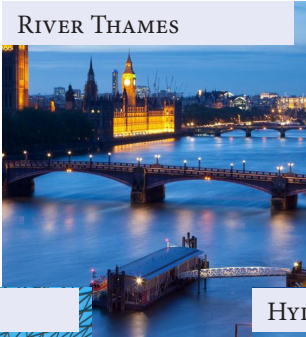
Speaker Slots Available

London is one of the pre-eminent financial centers of the world as the most important location for international finance. London has the fifth largest metropolitan economy in the GDP of the world. It is one of the leading tourist destinations in the world and in 2017 it was ranked as the most visited city in the world with over 66 million visits. Tourism is one of London's prime industries, employing the equivalent of 350,000 full-time workers and the city accounts for 54% of all inbound visitor spending in the UK. The top most-visited attractions in UK were all in London like The British Museum, The National Gallery, Natural History Museum, Tower of London, Southbank center and many more.

There are five airports, though only one is in London. There is the London end of the London Birmingham canal, which was important to the industrial 19th century. The London Underground is a system of electric trains which are in London, United Kingdom. It is the oldest underground railway in the world. It started running in 1863 as the Metropolitan Railway. After the opening the system was copied in many other cities, for example New York and Madrid. Even though it is called the Underground about half of it is above the ground.

Speaker Slots Available

London 2018



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**Speaker
Slots
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Quantum Optics 2018

London

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