

Women in STEMM Summit 2024

ITSHER Conference 2024

Institute of Physics London

37 Caledonian Road, London N1 9BU

Thursday, March 7th

08:30 - 09:00 | Registration

09:00 - 09:15 | Opening Ceremony

Anna Baldycheva [University of Exeter, UK]

Olga Kugatkina [Infosys, UK]

Ortwin Hess [Trinity College Dublin, Ireland]

09:15 - 10:15 | Strengthening Science and Business Innovation
Collaboration between the UK and EU in STEMM

Anna Puig-Centelles [EU Commission, EU]

Audrey Crosbie [Trinity College Dublin, Ireland]

Samantha Pugh [University of Leeds, UK]

Ruth Saunders [Trinity College Dublin, Ireland]

10:15 - 11:00 | Digital Technology and Support of Innovation

Silvia Bertolucci [University College London, UK]

Barbara Johnson [Kortical, UK]

Valeria Vahorovska [Fondy, UK]

Tonia Plakhotniuk [Natwest Markets PLC, UK]

11:00 - 11:45 | Life Science

Clara Sattler de Sousa [Siemens Helthineers, Germany]

Akvile Ignoteite [System Akvile, Germany]

Vasyl Mykytiuk [Crick Science Entrepreneur Network, UK]

11:45 - 12:45 | Lunch | Networking | Keynote Presentations (Business)

12:15 - 12:35 | **Mirela Sula** [Global Woman Magazine and Global Woman Club]

12:35 - 13:00 | **Anthony Rose** [SeedLegals, UK]

13:00 - 13:20 | Role Model Keynote Presentation (Academia)

Silvia Bertolucci [University College London, UK]

13:20 - 14:00 | Patents and Technology Transfer

Pratheeba Vimalnath [Business School, University of Exeter, UK]

Clara Sattler de Sousa [Siemens Helthineers, Germany]

Anthony Rose [SeedLegals, UK]

Ajay Ramachandran [Serial Founder & Investor, support diverse and female founders, California, USA]

14:00 - 14:45 | Research and Innovation

Colin Dart [SET Squared, UK]

Umerah Akram [London Stock Exchange, UK]

14:45 - 15:15 | Coffee Break | Networking

15:15 - 15:45 | Role Model Keynote Presentation (Industry)

Jennifer Stopford [Intel, Ireland]

15:45 - 16:30 | Career Opportunities for STEMM Women

Jennifer Stopford [Intel, Ireland]

Mark Redmond [Three Ireland, Ireland]

Amy Nommeots-Nomm [Octopus Ventures, UK]

Jessica Wade [Imperial College London, UK]

Ajay Ramachandran [Serial Founder & Investor, support diverse and female founders, California, USA]

16:30 - 17:10 | ITSHER Conference - STEMM Session

Barbara Bravi [Imperial College London, UK]

"Machine learning-guided models of immune protein interactions"

Betti Hartmann [University College London, UK]

"What do black holes have to do with superconductors?"

17:10 - 17:15 | Closing the Innovation Summit | Opening ITSHER Scientific Conference

Friday, March 8th

08:30 - 09:00 | Registration

09:00 - 09:15 | Opening Welcome Session of the ITSHER Scientific Conference

Sali Davis [Royal Microscopical Society, UK]
"The Royal Microscopical Society - at the forefront of microscopy since 1839"

09:15 - 10:25 | Plenary Session

Silvia Giordani [Dublin City University, Ireland]
"Tailoring carbon nanoparticles for targeted therapeutic applications"

Helen Gleeson [University of Leeds, UK]
"Addressing global challenges with soft matter"

10:25 - 10:55 | Career in Academia for Women in STEMM

Helen Gleeson [University of Leeds, UK]
Silvia Giordani [Dublin City University, Ireland]

10:55 - 11:10 | Coffee Break | Networking

11:10 - 12:50 | STEMM Talks Parallel Sessions I

Lecture Room I

Lecture Room II

11:10 - 11:30 **Anna Hankin** [Imperial College London, UK]
"Materials to devices in Electromechanical Engineering for solving industrial challenges"

11:30 - 11:50 **Diana Oliveira** [University College London, UK]
"Journey of a biomedical engineer bridging the gap between engineering and medicine with computational modelling"

11:50 - 12:10 **Silvia Cipiccia** [University College London, UK]
"Ultrafast x-ray imaging: combining laser-driven x-ray sources with the most advanced x-ray imaging techniques"

12:10 - 12:30 **Marina Evangelou** [Imperial College London, UK]
"Unravelling the genetic structure of complex diseases through statistical machine learning"

12:30 - 12:45 **Olga Tiurikova** [University College London, UK]
"Shifting the Focus: Astrocytes as a Target in Epilepsy Therapeutics"

12:45 - 13:00 **Sofiarti Dyah Anggunia** [University College London, UK]
"Deciphering Development: Exploring the Role of Artificial Intelligence in Policy Formulation - A Comprehensive Review"

11:30 - 11:50 **Dervil Cody** [Technological University Dublin]
"Optical Sensors for Applications in Medical Physics"

11:50-12:10 **Tatsiana Mykulchik** [Technological University Dublin]
"Advances in photopolymerisable glass for holographic applications"

12:10 - 12:25 **Neelam Yadav** [Trinity College Dublin, Ireland]
"Colossal permittivity and chirality in Liquid Crystals -use in Supercapacitors"

12:25 - 12:40 **Tara Ryan** [University of Limerick, Ireland]
"Material Characterization of Polymer Deposition on Piezoelectric Polycrystalline Biomolecular Assemblies"

12:40 - 12:55 **Patricia Luppe** [Trinity College Dublin, Ireland]
"Planetesimal belts around M dwarfs"

13:00 - 13:45 | Lunch

13:15 - 13:40 | **Joel Cohen** [Duke University, USA]
"Barrier Breakers to Progress Makers - From Women Naturalists to Microscopy Artists"

13:45 - 14:15 | STEMM Education

13:45 - 14:05 **Diana Adele Martin** [Imperial College London, UK]
"Bringing ethics in STEM education, and will include some practical suggestions and examples"

14:05 - 14:20 **Melisa Sit** [Bogazici University, Turkey]
"Enhancing Conceptual Understanding in Physics Education: A Comparative Study of Interactive Simulations vs. Traditional Methods in 10th Grade Classes"

14:20 - 14:45 | Role Model Keynote Session

Louise Bradley [Trinity College Dublin, Ireland]

14:45 - 15:45 | STEMM Talks Parallel Sessions II

Lecture Room I

14:45 - 15:05 **Reshma Rao** [Imperial College London, UK]
"The Energy transition – Catalytic reactions at the leading edge of renewable technology"

15:05 - 15:25 **Melody Zhifangh Ni** [Imperial College London, UK]
Arkeliana Tase [Imperial College London, UK]
"Accelerate medtech translation by using evidence to inform product design and development"

15:25 - 15:45 **Kimberly Meechan** [University College London, UK]
"Using X-ray imaging to guide volume electron microscopy"

15:45 - 16:00 | Coffee Break | Networking

16:00 - 17:15 | STEMM Talks Parallel Sessions III

Lecture Room I

16:00 - 16:20 **Yue Wang** [University of York, UK]
"Van der Waals materials for nanophotonics and laser devices"

16:20 - 16:40 **Amita Ummadisingu** [University College London, UK]
"Perovskites: New Hybrid Materials for Printable Solar Cells"

16:40 - 17:00 **Soraya Caixero** [University of Bath, UK]
"Refractive index sensing with whispering gallery mode micro-lasers"

17:00 - 17:15 **Shweta Choudhary** [University of Manchester, UK]
"A sustainable approach of manganese(I)tricarbonyl catalyst for C–H hydroarylation"

17:15 - 17:30 **Sacha James** [University of Exeter, UK]
"Exploring the Role of Vasopressin in Modulating Corticotroph Activity"

Lecture Room II

16:00 - 16:15 **Ariádne Bertolin** [Maynooth University, Ireland]
"A study of nonlinear Lur'e systems in control theory"

16:15 - 16:30 **Maria Stamenova** [Trinity College Dublin, Ireland]
"What I learned simulating jiggly spins in flowing currents"

16:30 - 16:45 **Nishta Shelly** [Trinity College Dublin, Ireland]
"Electro-optic modulation in large area multilayer MoS₂ pixel arrays"

16:45 - 17:00 **Zahra Khatibi** [Trinity College Dublin, Ireland]
"Topological interface states in graphene/transition metal dichalcogenides heterostructure"

17:00 - 17:15 **Khalak Mahadeviya** [Trinity College Dublin, Ireland]
"Thermodynamics uncertainty relation in strongly coupled open quantum systems"

17:30 - 17:45 | Closing Ceremony | Awards | Opening Call for ITSHER SUMMIT 2025