

# Women in STEMM Summit 2024

## ITSHER Conference 2024

### Trinity College Dublin

Location: [Physics Lecture Theatre, Fitzgerald Building, Dublin 2](#)

## 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]

**Tonia Plakhotniuk** [Natwest Markets PLC, UK]

**Valeria Vahorovska** [Fondy, 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 - 13:00 | Lunch | Networking

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

**Yuliya Semenova** [Dublin University of Technology, Ireland]

## 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

**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, USA]

## 16:30 - 17:30 | Drink Reception and Poster Session

- P1** **Thalita Nazare** [Maynooth University Dublin, UK]  
*"Dynamic Stability Analysis of Floating Offshore Wind Structures for Sustainable Energy"*
- P2** **Asha Devi** [Trinity College Dublin, Ireland]  
*"Impact of dipole-dipole interaction in strong-, ultrastrong-, and deep-strong-coupling regimes"*
- P3** **Zahra Jalali-Mola** [Trinity College Dublin, Ireland]  
*"Topological  $SU(3)$  Quantum Walk in Two-Dimension"*
- P4** **Yanji Yang** [Trinity College Dublin, Ireland]  
*"Switchable multimode strong coupling via single-molecule redox in plasmonic nanocavities"*
- P5** **Niamh O'Shea** [Trinity College Dublin, Ireland]  
*"The Synthesis of Mechanically Interlocking Molecules using the btp [2,6-bis(1,2,3-triazole-4-yl)pyridine]"*
- P6** **Helen Husca** [Trinity College Dublin, Ireland]  
*"Navigating the Virtual Frontier: Exploring the Privacy Challenges of Extended Reality"*
- P7** **Dilkhush Khicher** [Trinity College Dublin, Ireland]  
*"Topic: Enhancing Electrochromism of Transition Metal Oxides using Fabry-Perot Interference"*
- P8** **Lulin Wang** [Trinity College Dublin, Ireland]  
*"Enhanced chemical vapor deposition of monolayer MoS<sub>2</sub> films via a clean growth promoter"*
- P9** **Laetitia Paula Bettmann** [Trinity College Dublin, Ireland]  
*"Quantum stochastic thermodynamics in the mesoscopic-leads formulation"*
- P10** **Luisa Toledo Tude** [Trinity College Dublin, Ireland]  
*"Driven-dissipative condensates and the second law of thermodynamics"*

- P11** **Alexandra McNamara** [University College Dublin, Ireland]  
*"Development of a Semi-Analytical Model to Characterise the Performance of X-ray Telescopes Utilising Silicon Pore Optics"*
- P12** **Martina Piletti** [Tyndall National Institute/University College Cork, Ireland]  
*"Development of anti-counterfeiting chemical markers for the protection of cultural heritage"*
- P13** **Anita Halder** [Trinity College Dublin, Ireland]  
*"Forecasting Materials: A Combination of Machine Learning and Ab Initio Modeling"*

## Friday, March 8th

08:30 - 09:00 | Registration

09:00 - 09:15 | Opening Session

**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 - 11:30 | Coffee Break | Networking

11:30 - 12:55 | STEMM Talks Session I

- 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 photopolymerizable 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"*

12:55 - 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 Session 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 Session III

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