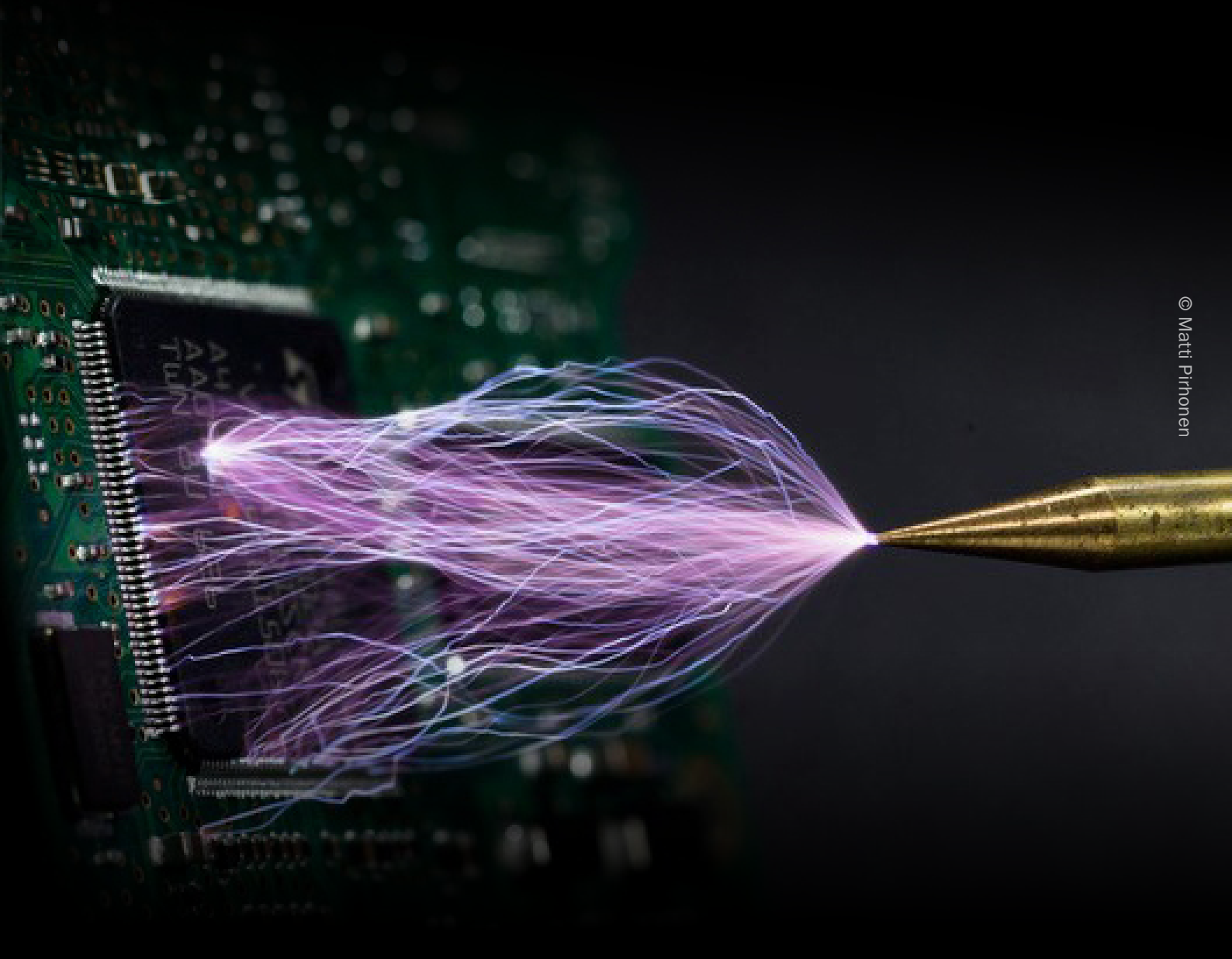




IOP Institute of Physics

Electrostatics 2027

5–9 April 2027

Institute of Physics, London, UK

Organised by IOP Dielectrics and Electrostatics Group

<https://iop-electrostatics-2027.eventsairsite.com/>

iop.org

Registered Charity no. 293851 (England & Wales)
and SC040092 (Scotland)

Introduction

Electrostatics 2027 is organised by the Dielectrics & Electrostatics Group of the Institute of Physics (IOP) and continues the International Conference series on Electrostatics which takes place in the United Kingdom every four years. The 2027 conference will be held at the Institute of Physics headquarters in central London.

The Electrostatics conference series was started with a desire to understand the fundamentals of electrostatic charging, and to explain and control electrostatic phenomena found in industry. The continued occurrence of fires and explosions resulting from electrostatic discharges, and the increasing sensitivity of electronic devices and systems to electrostatic discharges demonstrates that research in these areas is still highly relevant. Electrostatic phenomena in our environment and in environments beyond our planet are the subjects of fascinating and globally important research. The application of electrostatics in the development of new materials and new methods of fabrication is equally exciting. So too are the many applications in biology and medicine, environmental and agricultural protection and energy generation.

Electrostatics 2027 will provide the perfect forum for scientists, engineers, researchers and students from around the world to meet and discuss advances in all these areas. Whether professor or student, industry leader or factory engineer, Electrostatics 2027 warmly welcomes all.

Bill Bright Memorial Lecture

Toni Viheriäkoski, Cascade Metrology, Finland

Electrostatic Control Challenges in Modern Electronics Manufacturing

Invited Speakers

Prof. Ernesto Salzano, Università di Bologna

Electrostatic Hazards and Process Safety (working title)

Dr Martin Fullekrug, University of Bath

History and Advances in Atmospheric Electrostatics Research (working title)

Prof. Elena Besley, University of Nottingham

Modelling Electrostatic Interactions (working title)

Prof. Karen Aplin, University of Bristol

Space Electrostatics: Charging, dust and exploration across the Solar System and beyond

Other invited speakers to be announced.

Subject Areas

Abstracts are invited for the following subject areas and other areas with an emphasis on electrostatics:

Atmospheric electricity	Measurements
Bioelectrostatics	Mems
Biological applications	Moving webs and belts
Dielectrophoresis	Nanoelectrostatics
Electrohydrodynamics	Nanoelectrospray
ESD	Nanofibres
Electrostatics in combustion	Nanoparticle orientation
Electrostatic effects in drug delivery	Numerical modelling
Electrostatic microencapsulation	Nonthermal plasmas
Electrostatic precipitation	Particle control and transport
Electrospinning	Planetary & exoplanetary electrostatics
Electrowetting-based microfluidics	Powders
Energy generation/harvesting/storage	Safety and hazards
Environmental electrostatics	Standards
Health effects	Teaching electrostatics
History of electrostatics	Textiles
Ionisation and charge control	Triboelectrification
Liquids	

Abstract submission portal:

<https://iop-electrostatics-2027.eventsairsite.com/abstract>

Key dates

Abstract submission deadline	18 December 2026
Paper submission deadline	15 February 2027
Early registration deadline	15 February 2027
Registration deadline	15 March 2027

Co-operation partners



Electrostatics Committee
of Chinese Physical Society



ESD Association



Electrostatics Society
of America

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