

Introduction to demonstrations and teaching ideas selected by the Irish Science on Stage teams, 2000-2020



# SCIENCE ON STAGE IRELAND

Is organised by CASTeL at Dublin City University and the Institute of Physics Ireland.

The project has received funding from Science Foundation Ireland Discover Programme 2015-2019.



# **TEACHING RESOURCES**

The following resources are based on demonstrations and teaching ideas selected by the Irish teams that attended the Physics on Stage (POS) and Science on Stage (SOS) European festivals from 2000 to 2019.

Written formats of these resources are contained in the Physics on Stage and Science on Stage booklets that can be downloaded from: <u>www.scienceonstage.ie/resources</u>

Video resources are available for many of the resources in English and Irish language.





# **SUPPORTERS**

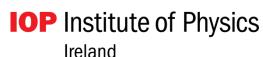
The National Steering Committee of Science on Stage in Ireland recognise funding received from Science Foundation Ireland Discover Programme, Professional Development Service for Teachers and Discover Science and Engineering to support teacher participation at festivals and the development of this collection of science teaching ideas and demonstrations.

Festival sponsorship has been provided by EIROforum European Science Teachers' Initiative (2000-2007), and from each Science on Stage host organiser (2009-2019).

Further details on Science on Stage in Europe is available on: http://www.scienceonstage.eu/











# **SPONSORS**

- The production of resources has been possible by the sponsorship and efforts of:
  - Centre for the Advancement of STEM Teaching & Learning (CASTeL) at Dublin City University.
  - Institute of Physics Ireland (IoPI).
  - Science Foundation Ireland (SFI) Discover Programme
- Professional Development Service for Teachers (PDST).





#### IRISH SCIENCE ON STAGE CONTRIBUTORS:

Aoibheann O'Gara Aoife McDonnell **Brigid Corrigan Catherine Tatersall** Damienne Letmon David Doherty David Keenahan David O'Connell Declan Cathcart **Dorothy Fox Eilish McLoughlin** Enda Carr Feargal Close

Jane Shimizu Máire Duffy Niamh Minton Nicola Sheehan Patrick Dundon Paul Nugent **Richie Moynihan Robert Clarke** Rory Geoghegan Sean Fogarty Seán Kelleher Sinead Kelly **Thomas McMahon** 





IOP Institute of Physics





#### **ACKNOWLEDGEMENTS:**

### Filmed and edited by:

Marek Bogacki Staszkiewicz, Documentavi.

#### Location:

School of Physical Sciences, Dublin City University.

**Irish translations by:** Roger Kelleher







### DISCLAIMER

The National Steering Committee of Science on Stage has made every effort to ensure the high quality of the information presented in these resources.

Teachers should ensure the safety of the demonstrations in the own laboratories.



# COPYRIGHT

These resources have been produced by volunteers with the help of our sponsors. They are intended for use by teachers and are not published for profit.

While Science on Stage Ireland maintains all rights, we permit education organisations to reproduce this material provided that it is for educational use, that it is not for profit, and that a suitable acknowledgement is give to Science on Stage Ireland.

We would be grateful to receive a copy of any other publication that uses material reproduced from this resource.











# DISCLAIMER

Any comments or suggestions would be welcomed by the national steering committee and can be sent to

**Chair Science on Stage Ireland:** Dr. Eilish McLoughlin, Science on Stage, CASTeL, Dublin City University, Dublin 9, Ireland.

co-Chair Science on Stage Ireland: Mr. Paul Nugent, IOP **Physics Teacher Coordinator.** 

Email: irelandsos@gmail.com Website: www.scienceonstage.ie

Ireland







