



**ROYAL
AERONAUTICAL
SOCIETY**
TOULOUSE BRANCH



Family Christmas Lecture

"Thunderbolts & Lightning Are They Really Frightening?"

*Presented by Rhys PHILLIPS
Electromagnetism Scientist, Airbus Central R&T*



Friday 13th December 2019 at 18:30
International School of Toulouse (IST) auditorium
2, Allée de l'Herbaudière, 31770 Colomiers

BRING YOUR KIDS AND GRANDKIDS

ALL PARTICIPANTS are REQUIRED to REGISTER
online at <http://goo.gl/WbiKtV> or by the square QR code above.

If unable to register online email Register@RAeS-Toulouse.org

All are welcome – members & non-members of the RAeS

Advise Dinner@RAeS-Toulouse.org to join us for dinner

About the Lecture

Paraphrasing that famous line from Queen's Bohemian Rhapsody, electromagnetism scientist and radio presenter Rhys Phillips will look at the phenomenon of lightning. In a light hearted and informative talk, Rhys will explain the processes which lead to a lightning strike and the different types of lightning that can exist. He will then move on to show what happens to aircraft when they are hit by lightning and explain how we protect against damage from this. This talk will also give the audience a chance to see exactly what happens in our lightning lab and answer the question that everyone is asking – can a piggy bank survive a lightning strike?!

About the speaker

Rhys Phillips is an electromagnetism scientist at Airbus Central R&T in Toulouse where he has worked since 2018, having previously spent almost 10 years working for Airbus in the UK. His research interests are in the field of electromagnetics with current research being orientated towards lightning, fuel electrostatics and wireless power transfer. He also leads the Airbus Technology Gender Diversity taskforce. Rhys graduated from Cardiff University in 2008 with a joint honours degree in Mathematics & Physics and in October 2016, was made an honorary lecturer at the School of Physics & Astronomy. He is an award winning science presenter, presenting to audiences around the world. He works closely with the British Council in France to deliver workshops as part of their Science in Schools programme and is a mentor for the SchoolLab competition. Rhys is an experienced radio broadcaster presenting his own weekly jazz and science shows, as well as being a regular guest on BBC national and regional radio. Rhys has been an active volunteer for the Institution of Engineering & Technology since 2010 and is currently volunteering for both the France Local Network and the Electromagnetics Technical Network. In 2019, he was appointed as Vice President of Public Relations for the nonprofit organisation, European Young Engineers and to the ambassadors council for the Queen Elizabeth Prize for Engineering. Rhys is a keen trumpeter and can now be found performing with various musical groups around Toulouse.