

Education Officer's Report. November 2019 - 2020

Training.

The Fundamentals of Aerosol Science.

A single day course, The Fundamentals of Aerosol Science, was hosted by the Society at the Edgbaston Park Hotel, University of Birmingham, in November, 2019. The content of the course was similar to previous years, with seven lectures covering a broad range of topics in aerosol science from aerosol sampling from the environment to aerosols thermodynamics and kinetics. The final lecture, which has a more applied focus, was given by Dr Michelle Dawson from GlaxoSmithKline.

The course started at 10.30am, giving attendees the opportunity to arrive in Birmingham from many destinations after peak travel time, and concluded at 5.15pm.

There were 7 lectures each of 45 mins duration. The following lectures were presented:

- (1) Welcome and Introduction: Dr Janine Jordan – Defence Science and Technology Laboratory
- (2) Basic concepts: Professor Ian Colbeck – University of Essex
- (3) Environmental Sampling: Dr Simon Parker – Defence Science and Technology Laboratory
- (4) Optical Properties: Dr Rachael Miles – University of Bristol
- (5) Physicochemical Characterisation: Dr Jurgita Ovadnevaite, National University of Ireland Galway
- (6) Thermodynamics and Kinetics: Professor Benjamin J. Murray – University of Leeds
- (7) Guest speaker: Dr Michelle Dawson - GlaxoSmithKline

There were 55 attendees coming from a wide range of backgrounds, including industry, academic research, atmospheric science, drug delivery etc. and government labs.

Feedback was largely supportive, with most attendees responding positively to the balance of topics covered, the length of the day and the appropriateness of the location and venue.

FAS 2020.

Due to the Covid-19 pandemic, the committee decided that this year we would not be able to host the FAS in person at the University of Birmingham. Instead the FAS will be delivered via Zoom on the 3rd November 2020, the day before the Annual Aerosol Society Conference. In order to shorten the day (to prevent screen fatigue) the committee decided not to include the guest speaker for this year but hopefully this valuable part of the program will return for FAS 2021.

The planned structure for 2020 is:

- (1) Welcome and Introduction: Dr Janine Jordan – Defence Science and Technology Laboratory
- (2) Basic concepts: Professor Ian Colbeck – University of Essex

- (3) Environmental Sampling: Dr Simon Parker – Defence Science and Technology Laboratory
- (4) Optical Properties: Dr Rachael Miles – University of Bristol
- (5) Physicochemical Characterisation: Dr Jurgita Ovadnevaite, National University of Ireland Galway
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Awards.

The Society currently offers five education related awards for its members:

Early Career Scientist Travel Award.

Awards in the form of bursaries of agreed amounts are available to early career scientists (including postdoctoral researchers) who are members of the Aerosol Society to attend Overseas Conferences and present their work. The following awards have been made Nov 2019 – Nov 2020:

No travel awards were awarded this year due to the Covid-19 pandemic.

Undergraduate Research Bursary.

This bursary scheme provides an opportunity for undergraduate students enrolled in a range of physical science, engineering or technology-based degree programmes to spend a minimum of six weeks working on an aerosol research project. Through support from the bursary scheme, an undergraduate will be able to gain experience in aerosol science research and encourage them to pursue a career in aerosol science. The bursary provides £1200 in funding, based on £200 per week for six weeks and eligible supervisors are encouraged to apply. For further details, please refer to the website.

This year Dr Miriam Byrne and Patrick Griffin from the University of Galway, were awarded this bursary in order to conduct a project entitled – Evaluating indoor aerosol concentrations during the Covid-19 pandemic.

Aerosol Science Career Development Grant.

The Aerosol Society is passionate about supporting aspiring researchers in aerosol science. This flexible grant is intended to support new and emerging aerosol scientists by funding projects which contribute to a scientist's career development. The grant can support scientists from public, private and university organisations.

The applications have been reviewed and this grant will be awarded shortly.

Aerosol Society Doctoral Student Award.

The Aerosol Society Doctoral Student Award is designed to recognise, reward and encourage doctoral students who are engaged in aerosol science. The award is aimed at graduate students who

are within the first two years of studying for a doctorate at a United Kingdom or Irish University (considering part time working).

The successful applicants were Dan Bryant, Dan Hardy, Alfie Mayhew and Amy Wilson.

Doctoral thesis prize.

The Aerosol Society awards this annual prize for an outstanding body of original aerosol-related research. The winner will be announced at the AASC 2020.

If you would like to apply for any awards please refer to the Society website for the full terms and conditions.

Dr Janine Jordan

Education Officer