

Education Officer's Report. November 2018 - 2019

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, on November 7th, 2018. 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 Steve Lever from the Defence Science and Technology Laboratory on Aerobiology and Pathogens.

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: Professor Benjamin J. Murray – University of Leeds
- (2) Basic concepts: Professor Ian Colbeck – University of Essex
- (3) Environmental Sampling: Dr Simon Parker – Defence Science & 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) Aerobiology and Pathogens: Dr Steve Lever, Defence Science & Technology Laboratory

There were 43 attendees coming from a wide range of backgrounds, including industry, academic research, atmospheric science, drug delivery etc. and government labs. Attendance was slightly lower than the previous year (60 in 2017) but we believe that this was due to the FAS coinciding with various field trips.

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. Everyone was complementary about the food.

Given the success of the course over the last few years, the committee recommended that the course should again be held at the Edgbaston Park Hotel, University of Birmingham in November 2019, just prior to the Annual Aerosol Society Conference. It was evident that many students stayed on for the annual conference on the following day and this was considered a positive route to encouraging engagement with the wider activities of the Society.

Looking to FAS in 2019 the general structure and focus will be maintained.

The planned structure for 2019 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
- (6) Thermodynamics and Kinetics: Professor Benjamin J. Murray – University of Leeds
- (7) Guest speaker: Dr Michelle Dawson - GlaxoSmithKline

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 2018 – Nov 2019:

<i>Name</i>	<i>Affiliation</i>	<i>Event</i>	<i>Awarded</i>
Malcolm Kittle	University of Bristol	AAAR 2019	500
Ciarrai O'Toole	NUI Galway	ISES – ISIAQ conference 2019	500
Yusuf Bhatti	University of Leeds	EAC 2019	500
Mara Otero-Fernandez	University of Bristol	AAAR Annual Conference 2018	500
			£2000

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 Marc Stettler and Thibault Audic from Imperial College, London were awarded this bursary in order to conduct a project entitled - Remote sensing of vehicle particulate failures using portable exposure instruments.

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 successful applicants were Kirsty Pringle and Evgenia Ilyinskaya.

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 Amy Peace, Hannah Edwards, Natalie Green and Sarah Barr.

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 2019.

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