



The Aerosol Society

Annual General Meeting

Thursday 10th November 2016

Nicolson Building, University of Birmingham, B15 2RT.

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11:45-12:15

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Nicolson Building, University of Birmingham, B15 2RT.

Agenda

1. Welcome & Introductions – Society president
2. Minutes of Annual General Meeting 12th November 2015
3. Matters Arising
4. President's & General Secretary's Report
5. Treasurer's Report
6. Education Secretary's Report
7. Elections to Committee
8. Any Other Business

Minutes of the Aerosol Society Annual General Meeting Thursday 12th November 2015

The Nicolson Building, University of Birmingham.

Present: 36 members attended the meeting

Approval of the Minutes of the Last Annual General Meeting (27th November 2014)

Darragh Murnane identified one change to the minutes: James McGrath was also co-opted onto the committee at last year's AGM alongside Dr Jacqui Hamilton. The remaining minutes were approved as an accurate record of the meeting. Darragh Murnane asked 'who is willing to propose we formally adopt the minutes of the last meeting?'

Proposed: Ian Colbeck
Seconded: Simon Parker

Motion carried

Matters Arising

We requested last year that members submit items for inclusion in our monthly newsletter and I am delighted to say we have had an amazing response from our student members detailing their research articles and conference experiences and it gives them the opportunity to explain the work they are doing in their PHD's to a wider audience. Our newsletter reaches in the region of 500 people per month so if you would like to get publicity for your recent work, please email a summary to admin@aerosol-soc.com. It currently has a mailing list of approx. 1000 globally so is a really good way to reach your peers and also industry and corporates.

The second matter arising we need to discuss is that three people stepped down from the committee last year, so I would like to formally thank Mark Crooks, Jolyon Mitchell and Ann McDonagh for all their hard work for the Society over the last few years. You will particularly know Jolyon and Mark and Jolyon was actually the Society's first membership secretary in 1986.

The President and General Secretary's Report to the 2015 AGM

Introduction

Welcome to the 2015 Annual General Meeting of the Aerosol Society. This is the second year that we are meeting at the University of Birmingham since changing our annual meeting cycle to November, to coincide with the new one-day format Annual Aerosol Science Conference. It has been a busy twelve months since we last met for the AGM 2014. December 2014 was the 25th Anniversary of the Drug Delivery to the Lungs Conference and the attendees certainly celebrated in style. This was followed by a series of 'Focus Meetings' in Spring and Summer 2015, and in September 2015 many Aerosol Society members made the short journey to Milan to attend the European Aerosol Conference hosted in Milan. Finally in 2015 both the Aerosol Society Committee and the DDL Sub-Committee undertook a period of review to establish our new strategic objectives for the next five years.

New Committee Members and a fond farewells

In November 2014 we welcomed some new faces onto the Committee: Ben Murray (University of Leeds), Jacqui Hamilton (University of York) and James McGrath (OÉ Gaillimh/NUI Galway). The new members quickly got to work organizing focus meetings and developing the new Society Strategy. Michelle Dawson (GlaxoSmithKline) joined the DDL Sub-Committee in December 2015, when Alan Ferrie stepped down. Alan has contributed over many years to DDL's success and we thank him for his hard work on behalf of the entire Society.

Administration

In the last few months you will have received emails from Sonia Mills, who has joined the Aerosol Society administration team. Sonia was put to work very early by joining Nikki Evans during our

reorganization. The AASC 2015 is the Society's first chance to meet with Sonia in person and I'm sure you'll all welcome her on-board. Following a review in Spring 2015 by the DDL and Aerosol Society Committees, it was clear that we needed to invest to develop the DDL Conference and prepare for the future, while at the same time, continuing to grow the Society's income and activities. As a result of this investment, Nikki Evans is now the dedicated DDL Administrator supporting Sheila Coates (DDL Conference Organizer). Sonia who joined us in July is the dedicated Aerosol Society Committee Administrator. Sonia is based in Bristol and can be reached by email for any members' queries, and would be delighted to hear from you with news stories and ideas for focus meetings: admin@aerosol-soc.com

Membership and Communications

Our membership is currently relatively strong with 189 ordinary members, 8 corporate members, and we are particularly proud of the growth of student membership to 117 members. It is the student members that will form the Society in future years, and we're delighted that the new format CN Davies Award, travel bursaries and Fundamentals of Aerosol Science Training Day continue to catch the attention of students. As we look towards the next five years, we seek to expand our corporate and ordinary membership numbers as well as improve our three-year retention rates for students. A key component is communication and engagement with members. Our Members'-Only Area has been updated with many presentations and abstracts as promised last year. However, we realise the need for better communication with and between members. With that in mind, Sheila, Nikki and Sonia are currently designing our new websites for Aerosol Society/DDL and we will commission our new designers and service providers by the end of the year. The new website is expected to go live in 2016, and will provide better networking and information resource for our corporate sponsors and members alike. We have continued the monthly newsletters with some success in 2015. We would love to feature your group and its research, so please do continue to submit your contributions.

Drug Delivery to the Lungs 25

In 2014 we celebrated 25 years of Drug Delivery to the Lungs with record breaking delegate numbers and a sell-out Exhibition Hall.

Keynote speaker Professor Peter Stewart, Monash University presented the DDL Lecture on Inhaled drug formulation - the past, present and future of powders for inhalation. This was very well received by a packed auditorium and reflected the theme of looking back over the past 25 years of Drug Delivery and anticipating where Drug Delivery will be in 2039!

Each year we present a "What on Earth" Session which provides the opportunity for unusual lectures to be given. For DDL25 we welcomed Bath and England rugby legend John Hall who spoke about his race 3,000 miles across America in support of Asthma UK. This presentation was not only exceptional but was also a real tear jerker.

The Pat Burnell New Investigator Award attracted a large number of excellent entries; and once again 6 short-listed authors were asked to deliver a 10 minute oral presentation in the main auditorium. The talks were of an excellent quality, with the award being presented to Abhinav Kumar from King's College London for his study on 'Inhaled nanoparticles develop a complex protein corona: biological importance and implications for sustained release formulations'. The other prize winners in 2014 were: Best Academic Poster contribution – Irene Parisini University of Hertfordshire and Best Industrial Poster contribution from Helen Lucke from Covance Laboratories Ltd.

We hosted a spectacular Celebration Jubilee Dinner at the Conference Centre with over 500 guests attending. Father Christmas hosted our Drinks Reception and we were then entertained by a Frank Sinatra Tribute Act, a Rabbe Burns Actor and the bagpiping, fiddle playing PeatBog Faeries who got everybody up and dancing.

The 2014 Conference provided the opportunity for companies to exhibit in the new purpose built Exhibition Hall at the EICC. In excess of 80 exhibitors attended taking advantage of our varied sponsorship package including our platinum sponsors 3M Drug Delivery Systems, Cascade Technologies Ltd and Intertek Melbourne.

Focus meetings

In 2014 we continued the provision of the new-format Aerosol Science Focus Meetings. In 2015, the focus meetings were in collaboration with the Academy of Pharmaceutical Sciences and the University of Leeds respectively. Focus meetings concentrate on specific topics of specialism, and provide a great opportunity for members to secure a network in their research area. The meetings are organised by

members with support from the Aerosol Society administrator and often in collaboration with other academic and professional organisations. To organize your own meeting see the guidelines online or contact Sonia Mills (admin@aersol-soc.com).

<http://www.aerosol-soc.org.uk/?q=FocusMeetingOpportunities>

Focus Meeting 4 – Bioequivalence of Orally Inhaled Drug Products: Establishing the scientific basis for Regulatory Acceptance of In Vitro Strategies, March 2015

The Aerosol Society hosted this focus meeting with the Academy of Pharmaceutical Sciences on 30th March 2015. 88 delegates attended the meeting at **NHLI Kensington** in London, from industrial, academic and regulatory backgrounds from over 6 countries. Delegates heard eight separate talks on issues related to clinical and in vitro testing of new inhaled products, and had the opportunity to contribute to six focused discussion workshops. The outcomes of the discussion forums were reflected back to delegates at the end of the symposium, with the opportunity for further discussion. This provided a summary of consensus points which will form the basis for generation of a consensus peer review paper.

Focus Meeting 5 – Aerosol Impacts on Global Biogeochemical Cycles

The Aerosol Society supported the **University of Leeds** to organize this conference, which was held in Leeds on 8th July 2015. 45 research scientists attend the meeting from over 17 research institutes and 5 countries with research disciplines covering marine, terrestrial, and atmospheric observations, laboratory experiments, and chemical, atmospheric and ocean modelling on micro to global scales

2014 Annual Conference

The Annual Aerosol Conference 2014 took place for the first time in its one-day format at the University of Birmingham. The 80 delegates heard some excellent presentations of high quality from Prof Ruth Signorell (**ETH Zurich**), Assoc Prof Jason Olfert (**University of Alberta, Canada**) and Prof John Plane (**University of Leeds, UK**). There were nine other talks from UK-based scientists, including from Junior Researchers (PhD students or recently PhD graduates). The new affordable, accessible one-day meeting saw a growth in numbers. The Society was delighted to be able to award the Junior Researcher and Best Poster Contribution Prizes (generously sponsored by Biral) to Christian Hoecker and Jean de la Verpilliere from the University of Cambridge. The Committee is also gratefully acknowledges the support of the AASC sponsors Filter Integrity, TSI Instruments Ltd, and Cambustion.

Fundamentals of Aerosol Science

The Fundamentals of Aerosol Science Meeting was run alongside AASC 2014, and in the new venue at the **University of Birmingham** attracted a total of 55 delegates who are new entrants to the field of aerosol science. This one-day conference for researchers in November provides an introduction to the basic concepts and applications of aerosol science at a time when many new PhD researchers begin their projects. Our key focus as a Committee is maintaining the students' interest and engagement with the Aerosol Society after this excellent introduction.

Awards and Sponsorship

The Aerosol Society again held a Small Research Grant Scheme with an available fund of £10,000. The proposals which were reviewed by an independent panel of assessors and were funded were submitted by: **Dr Allen Haddrell**, University of Bristol (*'To Determine the Traits that Regulate the Length of Time a Microorganism Remains Viable While in a Suspended Aerosol, as a Function Atmospheric Conditions'*); **Mr Salman Malik** a PhD student at University College London (*'Electrospray Fabrication of Conductive Polymer Patches for Cardiac Restoration'*) and **Ms Stella Corsetti**, University of Dundee (*'Surface Enhanced Raman Spectroscopy (SERS) of single aerosols'*). The committee also funded a total of 6 Early Career Scientist Travel Awards for international conference attendance, worth a value in excess of £4000. We have also sponsored 9 students since in 2015 as part of the CN Davies Studentship Scheme, worth a total of £5,400.

Darragh Murnane: President

Simon Parker: General Secretary

Treasurer's Report to the 2015 AGM

The Aerosol Society has made a net loss of £24,488 for the 2014 financial year which compares to a loss of £24,249 in 2013. The finances for the Society in 2014 were generally in line with the 2014 budget and with the predictions made in the Annual Report for 2013. Sales in 2014 were up approx. £62k at £388,198 (2014) from £325,924 (2013) on previous year at largely driven by DDL. However, there was also a solid attendance at the Annual Aerosol Science Conference which operated after one-year's hiatus in a new one-day format. The Society's finances continue to benefit immensely from the increasing success of DDL, which provides the Society's main cash flow.

2014 was a strong financial year for the Society with a gross (trading) surplus of £74,760 from events including a successful DDL24. The DDL Sub-Committee have had extraordinary success at recruiting top-level sponsorship from the pharmaceutical industry to coincide with the 25th anniversary celebration of DDL. Should the resurgent sponsorship remain strong in 2015, the Society will be on track for an excellent financial year, since the costs of sales are predicted to be lower with the 2014 investment in 2014 DDL App and the anniversary dinner are complete.

The major cause for the net loss in the Society's finances for 2014 relate to our renewed commitment to student awards and the small research grant scheme. The total value of awards in 2014 was £18500 covering the CN Davies Awards, Student Travel Bursaries and the Small Research Scheme. The Society also incurred significant increased costs for website maintenance in 2014, due to our reliance on an expensive service provider to support an outdated platform. It is for this reason that in 2015 the administrators have embarked on a strategic work stream to secure a new website contractor from 2016 onwards.

The closing financial year was the first full year with our expanded administration team of Sheila Coates and Nikki Evans. The administrative burden, however, necessitated significant overtime expenditure outside of the administrators' contracted time and this is reflected in the Society's Expenditure. The growth of DDL in 2014 was such that it is necessary for both Sheila (0.6 FTE) and Nikki (0.4 FTE) to dedicate their time entirely to the DDL organization and administration from 2015 onwards, as well as financial management. The Society's attempts to limit non-staff costs (e.g. postage and stationary) through hire-purchase agreements and better use of online resources was hampered by the increased costs from our web service providers (see above). Further attempts to reduce expenditure (and hence reduce costs of sales) will be explored at DDL in 2015 and 2016 by examining the possibility of phasing out printed Proceedings.

In order to maintain the DDL conference at the highest international standards, more administration commitment is required to grow the conference. For this reason the Society was required to take on a third (0.4 FTE) administrator in July 2015 (welcome to Sonia Mills) who will be dedicated to helping grown non-DDL business. We are already seeing the benefits of this, with the increased number of corporate sponsors at this year's AASC, and the expanded administration team provides the backbone for succession planning and conference growth in line with the new Aerosol Society Strategy. With income from sales expected to remain broadly static in 2015, but the costs of student/research awards and operating expenditure increasing slightly, the Society expects to make a small loss (circa £25k) again in 2015. The Committee is therefore appraising on an ongoing basis the need to reduce the student awards budget allocation for 2016.

As a result of the loss generated in 2014, the overall net worth of the society, as of 31 December 2014 has once again decreased from £327,815 to £303,327. The net worth of the society is still ahead of 2010 levels (£286,908) at the same time that the Committee has been investing in the development of the Society's activities. The Aerosol Society therefore has no immediate fluidity issues, and has adequate cash reserves to sustain the year-on-year investment for society development, enhancing the appeal of the DDL conference, education and training.

Mark Hammond
Treasurer

No questions raised relating to the treasurers report.

Education Secretary's Report to the 2015 AGM

The Fundamentals of Aerosol Science

A single day course, *The Fundamentals of Aerosol Science*, was hosted by the Society at Horton Grange, University of Birmingham, on Wednesday November 26th, 2014. The content of the course was similar to the revised course held in 2013, with seven lectures covering a broad range of topics in aerosol science from mechanics to sampling to characterisation and to drug delivery to the lungs. 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 with the first lecture of 1 hour duration and all subsequent lectures 45 minutes. The following lectures were presented:

- (1) **Introduction and Fundamentals, Prof. Ian Colbeck (University of Essex)**
- (2) **Environmental Sampling, Dr. Simon Parker (Defence Science & Technology Laboratory)**
- (3) **Electrical Properties of Aerosol, Dr. Keri Nicoll (University of Reading)**
- (4) **Optical Properties of Aerosol, Prof. Jonathan Reid (University of Bristol)**
- (5) **Analysis Techniques and Instrumentation, Dr. Markus Kalberer (University of Cambridge)**
- (6) **Aerosol Thermodynamics and Kinetics, Prof. Jonathan Reid (University of Bristol)**
- (7) **The Aerosol Science of Inhalation Therapy, Dr. Darragh Murnane (University of Hertfordshire)**

There were 54 attendees (21 PG students and 33 non-students) coming from a wide range of backgrounds, including industry, academic research (atmospheric science, drug delivery etc.) and governmental labs. In particular a large contingent of attended from DSTL (18). Attendance was the highest for some years with 36 attendees (21 PG students and 15 non-students) in 2013.

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. As in the previous year, lecture handouts were distributed electronically prior to the event. The course made a small surplus (£207).

Given the continued growth and success of the course over the last two years, the committee recommended that the course should again be held at the University of Birmingham in November 2015, 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. A large fraction of attendees joined together for a meal on the evening of the Fundamentals training day.

Training & Awards

The Society currently offers two Awards for its members:

The C N Davies Award

A Scholarship is awarded annually to graduate students undertaking a course of study leading to a Doctorate at a United Kingdom or Irish University. This Scholarship is intended to encourage a young science graduate to undertake postgraduate training in the field of aerosol science, and at the same time gain some experience in the presentation of work to a scientific audience.

In 2013, five applications were received and were considered to be of high quality. Given the budget allocated for the award of £5000 per year, all five students received awards for the academic year 2013-2014. These were renewed for 2014-2015. Three students remained eligible for the academic year 2015-2016 and all received renewals following satisfactory progress reports.

In 2014, three applications were received. Based on the quality of the submissions, all three received awards for the year 2014-2015. These three awards were renewed for 2015-2016 following satisfactory progress reports.

For new awardees for 2015, the Society received seven applications and made four awards. Current holders of the award are listed in the table below. For 2016-2017, 7 holders will be eligible for renewal and two new awards will be made.

| | | | |
|-------------|-------------------|--------------------------|--|
| 2013 | Adam Davis | University of Birmingham | Nanosensors for pH Determination in Individual Cloud Droplets and aerosol Particles |
| | Michael Cotterell | University of Bristol | Using Bessel Beam Optical Traps and Cavity Ringdown Spectroscopy to Measure the Optical and Thermodynamic Properties of Single Aerosol Particles |
| 2014 | Francis Wragg | University of Cambridge | On-line Measurement of Particle-Bound Reactive Oxygen Species |
| | Zhe Tian | University of Birmingham | Source Apportionment of PM _{2.5} in megacities in China: Multiple Methods Studies |
| | Aine Broderick | NUI | Indoor Aerosol Pollution Measurement in Energy Efficient Homes |
| 2015 | Alison Connolly | NUI, Galway | Occupational and bystander exposures to pesticide's during aerosol applications in horticulture and amenity gardening |
| | Rose Willoughby | University of Bristol | Improving the Understanding of the Optical Properties of Atmospheric Aerosols |
| | Joshua Holgate | Imperial College London | Liquid micro-droplet effects in a plasma |
| | Camille Bilger | University of Cambridge | Simulation and Modelling of Primary Breakup |

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. The following awards have been made during 2015:

| | | | | |
|-------------------|---|---------------------|---|--------|
| Salman Malik | Aerosol Technology 2015, Finland | June 15th-17th 2015 | £ | 400.00 |
| Olusegun Fawole | EAC 2015, Milan | Sept 6th-11th 2015 | £ | 500.00 |
| Bryan Bzdek | American Chemical Society National Meeting, Colorado, USA | Mar 22-26th 2015 | £ | 300.00 |
| James McGrath | Healthy Buildings 2015 Europe, Eindhoven, The Netherlands | May 18-20th 2015 | £ | 660.00 |
| Naomi Farren | International Conference on Carbonaceous Particles in the Atmosphere (ICCPA), Berkeley, USA | Aug 10-13th 2015 | £ | 500.00 |
| Michael Cotterell | SPIE Optics and Photonics: Nanoscience and Engineering, California, USA | Aug 9-13th 2015 | £ | 500.00 |

Undergraduate Research Bursary

To promote greater engagement with undergraduate students, the Society proposes to award an undergraduate research bursary to be held during the summer of 2016. 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 will provide £1200 in funding, based on £200 per week for six weeks and eligible supervisors are encouraged to apply. The application should consist of a 1 page proposal, containing the applicants name, institute, contact details and a brief description of the project addressing the selection criteria set out below. For further details, please refer to the website.

J. P. Reid - Education Secretary

No questions raised relating to the Education Secretary's report

Aerosol Society Strategic Plan – Darragh Murnane

For some time now we have been reviewing our events to fit the needs of our members i.e. a more focussed theme for the AASC and more one day focus meetings, and since 1986 when the Society was formed there has been a contraction in the inhaled medicines market and nuclear energy and the aerosol science community today is very different to what it was 25 years ago. So we set about over the summer to look at what exactly is the point of the Aerosol Society? There are committed scientists who join and come to some events but don't necessarily re-engage. We took a strategic overview at how the Society was functioning and what were our strengths, weaknesses and how we could try to make a society that members want to become more active in. We don't believe in changing any of the strategic Society aims from 1986:

The Aerosol Society's Foundation Aims

- Promote all scientific branches of aerosol research.
- Promote by means of meetings and publications the spread of information on an interdisciplinary basis, and to make available a pool of expert knowledge.
- Encourage international co-operation.
- Recruit new members and assist in training.
- Encourage investment in aerosol research.

We have had some really big successes from the Society, namely the highly successful annual 'Drug Delivery to the Lungs' conference which is Europe's largest annual conference on aerosol medicine with a turnover of over £350,000 and attracting over 500 delegates and the Aerosol Society gives over £18,000 of student awards annually. We are one of the only Societies in Europe that invests in PhD training to this level. So some of the things that we do are really good and we are looking to replicate that in other areas.

Through our discussions, in order to continue to meet the Society's constitutional aims, the committee concluded the Society's activities should be directed to achieve these key aims:

- Continue to support science, research and training
- Increase revenue and improve accounting structures
- Conceive an identifiable brand for aerosol scientists
- Implement a new structure that accommodates the increasing specialization of research communities within an inter-disciplinary Society.

To achieve these aims, the Society will exploit the successful model of the DDL Subcommittee, by dividing into scientific focus groups, who will be represented on the committee. Each focus group committee member will be responsible for delivering on the Society's objectives for the strategic plan. The four key scientific themes (and hence the focus groups) are:

- Drug Delivery to the Lungs & Inhaled Aerosols
- Aerosols in the Atmosphere
- Aerosols in Combustion & Energy
- Fundamental Aerosol Science & Technology

Our objectives and performance indicators will be:

- Enhance student membership and establish a young researcher forum in order to secure the future of aerosol sciences research in the UK. Aim to achieve summer schools.
- Grow committed membership from sectors outside DDL aerosol scientists by focused recruitment into the new Focus Group scientific themes.
- Improve membership retention and membership offering using technologies (e.g. new website, renewals system, communication etc.).
- Expand corporate membership of the Aerosol Society through developing a corporate sponsorship scheme and achieve a commercially-attractive high-value repeat conference.
- Achieve consistent management accounting and forecasting across all Aerosol Society financial activities (membership, administration, focus group meetings and DDL) and allow the treasurer to focus on investing in the future.

Darragh Murnane asked if there were any questions.

Peter Gallimore asked 'do we know the size of the aerosol community in the UK?'

Darragh Murnane answered, 'Yes, in the region of 500-600 people that could all join (the Society) and be members and, although we know they won't all join, if we increased our membership then that would be a large group of people that would be very committed to attending meetings'.

No other questions asked.

Regarding our existing constitution, several issues are requiring change in 2016, for example there is no longer a Membership Development Officer and also for us to achieve our fifth objective above it would be good to have a treasurer that was in place for 5-6 years so we do need to have an overhaul of the constitution so it reflects what we actually do and how the UK aerosol science community functions nowadays. So we are going to really analyse the constitution over the next year and propose a number of changes which will be communicated to members in advance of our next AGM. The big issue to be addressed at present is the current article 27:

"The Officers of the Society and other Committee Members are elected for two years by the meeting of members. No Officer may serve more than two successive terms in the same post. No person may serve on the Committee for more than ten consecutive years unless they are elected to do so by three quarters of the voting members present at an AGM, the election is required even in the absence of any other candidate."

To effectively manage the finances takes a term of approximately 6 years and Mark Hammond took on the role 4 years ago and we are now halfway through changing the accounting structures and achieving proper forecasting of our finances beyond a year so it's really important that we are able to keep Mark on the committee for a further 3 years at least but the current constitution doesn't allow that. Mark is the finance manager for DDL, so responsible for over £350k annual income and in addition to that he is the CEO of one of the largest contract research companies in the UK so he adds a lot of strength to the committee in the field of financial planning.

So, today we are proposing a minor change:

"The Officers of the Society and other Committee Members are elected for two years by the meeting of members

*No Officer, **other than the Treasurer**, may serve more than two successive terms in the same post. No person may serve on the Committee for more than ten consecutive years unless they are elected to do so by three quarters of the voting members present at an AGM, the election is required even in the absence of any other candidate."*

We are not proposing that the treasurer stays in place forever, and they would have to be re-elected every two years, but would have the length of time necessary to achieve financial stability.

So, we propose that this year we adopt that change to the constitution.

Proposed: Darragh Murnane

Seconded by: Charles Clement

Nobody opposed this change.

Election of Committee Members 2015

Don Clark There are a number of positions up for re-election: President, Vice-President, General Secretary, Education and Treasurer. There have only been single nominations for these posts so individual proposers and seconders are not necessary unless anyone objects. Are there any objections to the following?

| | |
|--------------------|-----------------|
| President: | Darragh Murnane |
| Vice-President: | Jonathan P Reid |
| General Secretary: | Markus Kalberer |
| Education: | Ben Murray |
| Treasurer: | Mark Hammond |

If there are no objections then the singularly nominated people are hereby elected to the committee.

Motion Carried

Darragh Murnane There are three ordinary member vacancies as Mark Crooks, Jolyon Mitchell and Ann McDonagh have all stepped down and we thank them again for their service.

The following members of the Society have been formally proposed to the committee as they have expressed an interest in joining the Society on a formal basis:

Jacqui Hamilton

James McGrath

Adam Boies

Proposed Ian Colbeck

Seconded Jonathan Reid

Darragh Murnane Is there anybody else who would like to stand or nominate themselves? Is there anybody who objects to them being nominated?

No objections

Welcome Jacqui, James and Adam as ordinary members of the committee.

Motion Carried

Darragh Murnane The following members are up for re-election as they have exceeded the term of 2 years.

Ian Colbeck

Simon Parker

Gary Pitcairn

Omar Osmani

Proposed Darragh Murnane

Seconded Jacqui Hamilton

Is there anybody who wishes to stand against them?

None

Motion Carried

Darragh Murnane Co-option of members was something we started to let members gain experience on the committee and see if it was something they were willing to commit to on a longer term basis and be elected as ordinary members. We have 2 nominations for co-opted committee members:

Janine Jordan (DSTL)

Amanda Lea-Langton (University of Manchester)

Proposed Darragh Murnane

Seconded Simon Parker

Darragh Murnane opened up offers for others to join the committee as co-opted members.

Paul Williams (University of Manchester) nominated himself.

Proposed Darragh Murnane

Seconded Ian Colbeck

Darragh Murnane confirmed that Matthew Wright was continuing his second year on the committee.

The Aerosol Society Committee Officers and Members 2015

| | |
|--------------------------|-------------------------|
| President: | Dr Darragh Murnane |
| Vice President | Professor Jonathan Reid |
| General Secretary | Dr Markus Kalberer |
| Treasurer | Mr Mark Hammond |
| Education Officer | Dr Ben Murray |

Ordinary Members

Dr Adam Boies
Professor Ian Colbeck
Dr Jacqui Hamilton
Mr James McGrath
Dr Simon Parker
Dr Gary Pitcairn
Dr Omar Usmani
Dr Matthew Wright

Co – Opted Members

Dr Janine Jordan
Dr Amanda Lea Langton
Dr Paul Williams

Any other business?

None.

The President and General Secretary's Report to the 2016 AGM

Introduction

Welcome to the 2016 Annual General Meeting of the Aerosol Society and we gather once again at the University of Birmingham for our Annual Aerosol Science Conference and Annual General meeting. Changes are afoot around in Birmingham's conference facilities and we look forward to seeing the facilities for future AASC meetings. If 2014 and 2015 were busy, 2016 has been just as eventful, with several focus meetings, and of course the annual DDL conference to keep our committees and new subcommittees busy. Since we met in November 2015, DDL 26 grew from the enormously successful 25th anniversary conference breaking the boundary of 600 delegates convening in Edinburgh in December 2015, and cementing its position as Europe's leading annual inhaled aerosols conference in Europe. Committee members also organized two further meetings in our series of Focus Meetings in Spring and Summer 2016, and sponsored a joint meeting of the IFPRI Bob Pfeffer Symposium and IChemE United Kingdom Particle Technology Forum at the University of Surrey in July 2016. The United Kingdom and Ireland were well-represented at the European Aerosol Conference in Tours, France in September where a particularly important decision was made for The Aerosol Society.

Committee news

In November 2015 we bid farewell to Mark Crooks, Prof Jolyon Mitchell and Dr Ann McDonagh from the Committee, in some cases due to retirement, and in others due to moving to pastures new. We wish all members well over the coming years, and many thanks for their work over the last two years (and more) of serving on the committee. It was a pleasure to honour Jolyon with an honorary membership of the Society in special award ceremony at DDL 26. We have also welcomed several new members onto the committee. Dr Paul I Williams (University of Manchester), Dr Amanda Lea-Langton (University of Manchester), Dr Janine Jordan (DSTL), Dr Adam Boies (University of Cambridge) and also Dr Dave Worton (National Physical Laboratory). The new committee members got down to it in short order, contributing to organizing this year's AASC Meeting. We would also like to congratulate Prof Ben Murray and Prof Markus Kalberer who were both promoted to Professorships of their universities in Summer 2016. The biggest welcome, however, goes to baby Ryan Jack Rickard who was born in June. We wish his mum (committee member Dr Jacqui Hamilton) and the family all our best.

An update on the Aerosol Society's new strategic focus

In Nov 2015 we presented a new strategic focus for the Aerosol Society to draw on the successes of the DDL subcommittee with four focus themes for our activities:

- Drug Delivery to the Lungs & Inhaled Aerosols
- Aerosols in the Atmosphere
- Aerosols in Combustion & Energy
- Fundamental Aerosol Science & Technology

We have secured a mix of membership on the committee having co-opted representatives from across the UK and Ireland to contribute to the development of the themes. We have also begun to interact more with our industrial partners to identify how we can interact better with their organizations over the coming years. We have held several meetings over the last year to focus on some key items, including building partnerships, growing membership, enhancing communication. Indeed, in 2016, the subcommittees have organized two Focus Meetings (Aerosol in the Atmosphere Focus Group and Fundamental Aerosol Science & Technology Focus Group), while the Aerosols in Combustion & Energy Focus Group has organized this year's AASC. We feel that this has been an excellent start to our new strategy and we hope to provide an excellent focus for our membership, and to attract new members into the field.

Membership communications

Our membership is currently relatively strong with 186 ordinary members, 2 corporate members, and we have maintained a strong student membership with 108 members. It

is disappointing that corporate membership has reduced, but this is an issue that we are seeking to address proactively as our communications strategy develops over the next twelve months. Although we have invested strongly in improving our administrative functions and our e-communications, we have been able to continue our schemes of CN Davies PhD Studentship Awards, and the travel bursaries and Fundamentals of Aerosol Science Training Day continue to catch the attention of students. The Travel Bursary Scheme was extended to Junior Researchers in 2016 in order to reflect the needs of post-doctoral fellows to access travel funding. We have had good uptake of our monthly newsletter mailshots, and from 2017, we will be targeting our mailshots only to current members from 2017. Sonia Mills, our administrator, can be reached by email and would be delighted to hear from you with news stories and ideas for focus meetings: admin@aerosol-soc.com.

The new Aerosol Society and Drug Delivery to the Lungs website development

In our strategic review for the five years from 2015-2020, we seek to expand our corporate and ordinary membership numbers as well as improve our three-year retention rates for students. A key barrier has been our websites, which has become out-dated and unviable for a modern membership-based organization. It also led to excessive maintenance costs by our web-service providers, which is unsustainable in the longer-term. The annual costs of running our website with our existing provider was regularly in excess of £6000 per annum (and as much as £12,000 in 2014, alone) and the functionality was unsuitable for organizing conferences, and for ensuring excellent membership communication and corporate sponsor engagement.

Our administrators prepared a business case for new a new website development in Spring 2016, and Jonathan Reid and Matthew Wright (University of Bristol) have worked with Sonia, Nikki and Sheila through the commissioning and design process. All five worked with the Bristol-based company Deckchair UK Ltd. to design our new twin websites, which we have launched in Autumn 2016. Our new website includes enhanced interactivity allowing our Administrative team to regularly update news content, an enhanced membership area with access to past-conference abstracts, an improved on-line payments system for conferences and events, and better membership communication approaches. We would welcome your feedback on the website, including suggestions for improvement and content. We would love to feature your group and its research, so please do continue to submit your contributions to Sonia (admin@aersol-soc.com)

Drug Delivery to the Lungs 25

Welcoming over 600 attendees to the Edinburgh International Conference Centre, conference chair Gary Pitcairn opened the DDL26 meeting on December 9, 2015. The DDL 26 program offered the 610 delegates a look at emerging trends in drug delivery to the lungs, particularly in the areas of biologics, patient-focused development, and novel analytical methods.

The DDL26 Annual DDL Lecture was presented by Anne Haaije de Boer who called for more customer-driven products with his lecture titled “Factors Affecting DPI Development – from Bench to Bedside.” Bruce Rubin, Chair of the Department of Paediatrics at Virginia Commonwealth University, opened Day 2 of the meeting with the plenary lecture, titled “Aerosol Therapies for Cystic Fibrosis: The Present, the Promise, the Potential, the Problems” in which he offered an overview of CF treatments ranging from antibiotics to mucoactive drugs to gene therapy, with pros and cons of each type. DDL continued its tradition of quirky “What on the Earth” presentations with a talk on the use of parasitic worm products for the suppression of airway allergic reactions presented by Henry McSorley of the University of Edinburgh. McSorley described his work identifying proteins excreted by helminth parasites that suppress IL-33 release in mouse models and that might be useful for the treatment of asthma in humans. A stand out feature of DDL26 was the presentation delivered by Mac Tuncer from the BREATHE Initiative and members of 3 of the 30 teams that participated. They

described the collaborative process and outcomes from the BREATHE Respiratory Hackathons, which took place on September 19th and 20th, 2015 in Boston, London, and Tel Aviv. Over the course of the weekend, patients, engineers, designers, clinicians, and entrepreneurs teamed up to “hack” devices for COPD prevention and treatment.

As always, the meeting included a session featuring the finalists for the annual Pat Burnell New Investigator Award, which was awarded to Sumit Arora from the National Institute of Pharmaceutical Education and Research (NIPER), India, with his presentation “Surface Modified Voriconazole Dry Powder Inhalable Formulation for the Treatment of Invasive Pulmonary Aspergillosis”. During the award presentations, Jolyon Mitchell was also awarded a lifetime membership to the Aerosol Society in recognition of his contributions to the society, to DDL, and to the field of drug delivery to the lungs. The academic poster award went to Joanna Muddle of King’s College London for her poster “Towards an in Vitro Bioassay for Drug Delivery for Orally Inhaled Products,” and the industrial poster award went to Nia Stevens of GlaxoSmithKline for “How Particle Size Changes Lung Deposition: A Physical Modeller’s Perspective.” In the exhibition hall, over 80 companies, including several first time exhibitors, showed off their products and services to the delegates. Anomatic, which manufactures pMDI canisters, became the first Chinese company to exhibit at DDL and Glasgow-based scintigraphy specialist BDD Pharma also made its first appearance at the meeting.

Focus meetings

In 2014 we continued the provision of the new-format Aerosol Science Focus Meetings. In 2015, the focus meetings were in collaboration with the Academy of Pharmaceutical Sciences and the University of Leeds respectively. Focus meetings concentrate on specific topics of specialism, and provide a great opportunity for members to secure a network in their research area. The meetings are organised by members with support from the Aerosol Society administrator and often in collaboration with other academic and professional organisations. To organize your own meeting see the guidelines online or contact Sonia Mills (admin@aersol-soc.com).

<http://www.aerosol-soc.org.uk/?q=FocusMeetingOpportunities>

Focus Meeting 7 – Weather, Climate & Health.

This was an Aerosol Society Focus Meeting held jointly with the Royal Meteorological Society and the Environmental Physics Group at the Institute of Physics. It is co-sponsored by Imperial College London and was hosted on 20th Jan 2016 at Imperial College London as part of the National meetings programme. The meeting was open to all, from expert to enthusiast, and hosted topical discussions on the latest advances in weather and climate

Focus Meeting 8 – Recent Advances in Aerosol Measurement Technology

FM8 was held at The Royal Institution, London on the 5th April 2016. Notably, many non-members joined our member delegates to share and interact with many superb presentations, both oral and poster and our 45 delegates relished the opportunity to discuss the latest technology and techniques with our industry exhibitors whilst in the heart of the Faraday museum. We were particularly delighted to host talks from our plenary speakers, Jose Luis-Jimenez and Neil Donahue from the USA. We were delighted to award prizes to Robert Nishida (University of Cambridge) and Simone Pieber (Paul Scherrer Institut, Switzerland) which were sponsored by Cambustion, and the organizers were grateful for support from Biral, Cambustion and TSI.

Keep your eyes open for FM9 Atmospheric Ice Nucleation Conference’ which will be held in Leeds on the 16th-17th January 2017.

2015 Annual Conference

The Annual Aerosol Conference 2015 took place for the second time in its one-day format at the **University of Birmingham**. We continued to grow our attendance with 88 delegates attending to hear some excellent presentations of high quality from Prof

Joachim Curtius (**Goethe-University Frankfurt am Main**), Prof Andrew Bayly (**University of Leeds**), and Prof Hugh Coe (**University of Manchester**). There were eleven other talks from UK-based scientists, including from Junior Researchers (PhD students or recently PhD graduates). We also had excellent support from our sponsors and exhibitors who the Committee gratefully acknowledges Air Monitors, Biral, Filter Integrity, Enviro Technology, TSI Instruments Ltd, and Dekati/Scielutions. The Society was delighted to be able to award the Junior Researcher and Best Poster Contribution Prizes (generously sponsored by Biral) to Eliani Ezazni (University of Strathclyde) and Theodore Wilson (University of Leeds).

Fundamentals of Aerosol Science

The Fundamentals of Aerosol Science Meeting was run alongside AASC 2015, and in at the **University of Birmingham** attracted a total of 50 delegates who are new entrants to the field of aerosol science. This one-day conference for researchers in November provides an introduction to the basic concepts and applications of aerosol science at a time when many new PhD researchers begin their projects. Our key focus as a Committee is maintaining the students' interest and engagement with the Aerosol Society after this excellent introduction.

Awards and Sponsorship

The Aerosol Society again held a Small Research Grant Scheme with an available fund of £10,000. The proposals which were reviewed by an independent panel of assessors with one award of £5000 being funded to: **Helen Smith**, University of Hertfordshire (*'In-situ profiling of the aerosol particle size distribution with disposable optical sensors'*). The committee also funded a total of 9 Early Career Scientist Travel Awards for international conference attendance, worth a value in excess of £4800. We have also sponsored 7 PhD students in 2016 as part of the CN Davies Studentship Scheme, worth a total of £4,200.

European Aerosol Assembly News

Prof Ian Colbeck and Prof Jonathan Reid represented the Aerosol Society at the EAA Council meeting, held during the EAC 2016 in Tours, France. At the meeting Prof Roberta Vecchi of the Italian Aerosol Society was elected Chair of the EAA from 2017 & 2018. The Aerosol Society was also awarded the honour of hosting EAC 2021. Following our successful bid, we will once more be welcoming aerosol scientists from around Europe, this time in Dublin City University, at their Helix Conference Centre.

Darragh Murnane: President

Markus Kalberer: General Secretary

Treasurer's Report to the 2016 AGM

The Aerosol Society has made a net loss of £9,413 for the 2015 financial year which compares to a loss of £24,488 in 2014. The finances for the Society in 2014 were generally in line with the 2014 budget but surpassed the expectations made in the Annual Report for 2014, where we had predicted a slight increase in the magnitude of the annual loss due to the recruitment of a further administrator. Sales in 2015 were down approx. £17k at £371,618 from £388,198 (2014). 2014 sales were enhanced by the 25th Anniversary of DDL, however, the drop in sales was lower than predicted, and the cost of sales was also lower than in previous years. No Aerosol Society events ran a deficit in 2015 and attendance at the Annual Aerosol Science Conference was higher in 2015, and there was strong attendance at all focus meeting events. The Society's finances continue to benefit immensely from the increasing success of DDL, which provides the Society's main cash flow.

2015 was a strong financial year for the Society with a gross (trading) surplus of £97,078 from events including a successful DDL25. The DDL Sub-Committee have had extraordinary success in passing the 600-plus mark in conference attendance, and also sustained recruitment of top-level sponsorship from the pharmaceutical industry. All predictions are that the sponsorship and attendance remain strong throughout the 2016 financial year, and the committee has been able to offer free attendance to registered students.

The major cause for the net loss in the Society's finances for 2015 relate to our renewed commitment to student awards and the small research grant scheme. The total value of awards in 2015 was £17,850 covering the CN Davies Awards, Student Travel Bursaries and the Small Research Scheme. The Society also continued to incur significant costs for website maintenance in 2015 (£11,284), due to our reliance on an expensive service provider to support an outdated platform. The administration costs were also higher in 2015 (£50,026). This rise was predicted at the 2015 AGM, as the committee decided to invest in a in a third-dedicated administrator to enable us develop our new website, and also to provide a focus support for our three new focus groups:

Aerosols in the Atmosphere

Aerosols in Combustion & Energy

Fundamental Aerosol Science & Technology

We anticipate that the expansion of the administrative team will result in a reduced overtime expenditure above administrators' contracted times (Sheila (0.6 FTE), Nikki (0.4 FTE) and Sonia (0.4 FTE)) in 2016. We have additionally made small savings in post, stationary and computer support through enhanced use of digital resources, and through use of hire-purchase agreements.

As a result of the loss generated in 2015, the overall net worth of the society, as of 31 December 2015 has once again decreased from £303,327 to £293,914, largely as a result of our investment in student awards and sponsorship. The net worth of the society is still ahead of 2010 levels (£286,908) and we maintain significant long-term cash reserves (£159,692) which, although with a low yield, have actually grown moderately since 2010. The Committee has been able to accommodate year-on-year investment for society development, enhancing the appeal of the DDL conference, education and training entirely within the cash flow of the Society.

An increase in the trading loss is predicted for the 2016 financial year, due to the expansion of administration team and a once-off investment in a new website development (budgeted at approximately £46K). The benefits of the extra administrator were clearly seen in 2015, with increased delegate numbers at our meetings, increased numbers of corporate sponsors at events such as the AASC, and improved communication with members. Our communication requirements are such that it has proved essential to update our web provision to support the

Society's new strategy, to maintain the growth of DDL, but also to prepare for hosting EAC 2021 in Dublin. We predict that the value of this investment will be recouped in savings from 2017 onwards, since the necessity for website maintenance (costing up to £11K per annum) will be vastly reduced to approximately £2.6K per annum. With income from sales expected to remain broadly static in 2016, the committee is appraising the trading loss on an ongoing basis, including monitoring the need to reduce the student awards spend in 2016 and the budget allocation for 2017.

Mark Hammond
Treasurer

UNAUDITED FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2015

FOR

THE AEROSOL SOCIETY

THE AEROSOL SOCIETY

**TRADING AND PROFIT AND LOSS ACCOUNT
FOR THE YEAR ENDED 31 DECEMBER 2015**

| | 31.12.15 | | 31.12.14 | |
|---------------------------------------|----------------|----------------|---------------|-----------------|
| | £ | £ | £ | £ |
| Sales | | 371,618 | | 388,198 |
| Cost of sales | | | | |
| Events | | 275,287 | | 313,438 |
| GROSS PROFIT | | 96,331 | | 74,760 |
| Other income | | | | |
| Deposit account interest | | 747 | | 270 |
| | | 97,078 | | 75,030 |
| Expenditure | | | | |
| Rent | 1,147 | | 997 | |
| Insurance | 636 | | 616 | |
| DDL administration | 32,955 | | 26,551 | |
| Aerosol society administration | 17,071 | | 17,952 | |
| Other operating leases | 1,264 | | 845 | |
| Telephone | 2,104 | | 1,772 | |
| Post and stationery | 2,121 | | 3,415 | |
| Advertising | 760 | | - | |
| Repairs and renewals | 244 | | 123 | |
| DDL meeting expenses | 3,503 | | 2,094 | |
| Meeting expenses | 3,350 | | 2,628 | |
| Computer support | 1,628 | | 2,145 | |
| Web site | 11,284 | | 11,953 | |
| Sundry expenses | 784 | | 269 | |
| Sponsorship | 208 | | 1,500 | |
| Training | 295 | | 390 | |
| Student awards | 17,850 | | 18,550 | |
| Accountancy | 1,320 | | 1,320 | |
| Depreciation of tangible fixed assets | 1,827 | | 2,283 | |
| Bad debts | 3,243 | | 1,664 | |
| | <u>103,594</u> | | <u>97,067</u> | |
| | | (6,516) | | (22,037) |
| Finance costs | | | | |
| Bank charges | 1,176 | | 669 | |
| Credit card | 1,721 | | 1,782 | |
| | <u>2,897</u> | | <u>2,451</u> | |
| NET LOSS | | <u>(9,413)</u> | | <u>(24,488)</u> |

THE AEROSOL SOCIETY**BALANCE SHEET
31 DECEMBER 2015**

| | Notes | 31.12.15 £ | £ | 31.12.14 £ | £ |
|----------------------------|-------|----------------|----------------|----------------|----------------|
| FIXED ASSETS | | | | | |
| Tangible assets | 2 | | 3,993 | | 4,968 |
| CURRENT ASSETS | | | | | |
| VAT | | 5,572 | | - | |
| Trade debtors | | 64,595 | | 82,352 | |
| Other debtors | | - | | (3,765) | |
| Prepayments | | 1,309 | | 30,217 | |
| Bank deposit account | | 542 | | 542 | |
| Bank account no. 1 | | 83,474 | | 162,627 | |
| Bank account no. 2 | | 159,692 | | 158,945 | |
| Cash in hand | | 551 | | 583 | |
| | | <u>315,735</u> | | <u>431,501</u> | |
| CURRENT LIABILITIES | | | | | |
| VAT | | - | | 7,488 | |
| Trade creditors | | 195 | | 340 | |
| Other creditors | | 25,199 | | 124,899 | |
| Accrued expenses | | 420 | | 415 | |
| | | <u>25,814</u> | | <u>133,142</u> | |
| | | | <u>289,921</u> | | <u>298,359</u> |
| NET ASSETS | | | <u>293,914</u> | | <u>303,327</u> |
| FINANCED BY | | | | | |
| CAPITAL ACCOUNT | 3 | | <u>293,914</u> | | <u>303,327</u> |

THE AEROSOL SOCIETY

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2015**

1. ACCOUNTING POLICIES

Tangible fixed assets

Depreciation is provided at the following annual rates in order to write off each asset over its estimated useful life.

- Fixtures and fittings - 15% on reducing balance
- Computer equipment - 33% on reducing balance

2. TANGIBLE FIXED ASSETS

| | Office equipment £ | Fixtures and fittings £ | Computer equipment £ | Totals £ |
|-----------------------|--------------------------|----------------------------------|----------------------------|-------------|
| COST | | | | |
| At 1 January 2015 | 536 | 8,603 | 16,224 | 25,363 |
| Additions | - | - | 852 | 852 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| At 31 December 2015 | 536 | 8,603 | 17,076 | 26,215 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| DEPRECIATION | | | | |
| At 1 January 2015 | 536 | 8,083 | 11,776 | 20,395 |
| Charge for year | - | 78 | 1,749 | 1,827 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| At 31 December 2015 | 536 | 8,161 | 13,525 | 22,222 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| NET BOOK VALUE | | | | |
| At 31 December 2015 | - | 442 | 3,551 | 3,993 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| At 31 December 2014 | - | 520 | 4,448 | 4,968 |
| | <hr/> | <hr/> | <hr/> | <hr/> |

3. CAPITAL ACCOUNT

| | 31.12.15 £ | £ | 31.12.14 £ | £ |
|-----------------|---------------|---------|---------------|---------|
| Brought forward | 303,327 | | 327,815 | |
| Less | | | | |
| Net loss | 9,413 | | 24,488 | |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| | | 293,914 | | 303,327 |
| | | <hr/> | | <hr/> |
| | | 293,914 | | 303,327 |
| | | <hr/> | | <hr/> |

Education Officer's Report to the 2016 AGM

The Fundamentals of Aerosol Science

A single day course, The Fundamentals of Aerosol Science, was hosted by the Society at the Nicolson Building, University of Birmingham, on Wednesday November 11th, 2015. The content of the course was similar to the revised course held in 2014, with seven lectures covering a broad range of topics in aerosol science from aerosol sampling from the environment to drug delivery to the lungs. 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) Introduction and Fundamentals, Prof. Ian Colbeck (University of Essex)**
- (2) Environmental Sampling, Dr. Simon Parker (Defence Science & Technology Laboratory)**
- (3) Electrical Properties of Aerosol, Dr. Keri Nicoll (University of Reading)**
- (4) Optical Properties of Aerosol, Prof. Jonathan Reid (University of Bristol)**
- (5) Analysis Techniques and Instrumentation, Dr. Markus Kalberer (University of Cambridge)**
- (6) Aerosol Thermodynamics and Kinetics, Prof. Jonathan Reid (University of Bristol)**
- (7) The Aerosol Science of Inhalation Therapy, Dr. Darragh Murnane (University of Hertfordshire)**

There were 50 attendees (28 PG students and 22 non-students) coming from a wide range of backgrounds, including industry, academic research (atmospheric science, drug delivery etc.) and governmental labs. Attendance was similar to the previous year (54 attendees; 21 PG students and 33 non-students), hence maintaining the growth from 2013 (36 attendees; 21 PG students and 15 non-students).

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. Some attendees suggested that there might be too much material for a one day course. As in the previous year, lecture handouts were distributed electronically prior to the event. The course made a surplus (£1713.19).

Given the continued growth and success of the course over the last three years, the committee recommended that the course should again be held at the University of Birmingham in November 2016, 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. A large fraction of attendees joined together for a meal on the evening of the Fundamentals training day.

Looking to FAS in 2016, the committee recommended that the general plan for this successful day should be maintained, but with some changes. The intention is to make some minor changes to some of the lectures to reduce overlap and ensure the material can be presented within the allotted time without rushing. Prof Murray will present a revised version of the 'Aerosol Thermodynamics and Kinetics' lecture previously presented by Prof Reid. Prof Kalberer's lecture will now focus on chemical composition rather than characterization in general. In addition, the committee recommends involving the exhibitors through exhibitor led practical sessions for the candidates which will run as optional parallel sessions for small groups of candidates. This is intended to both increase the breadth of material on offer in the FAS as well as increase the involvement of our experienced exhibitors in the Society's activities.

Training & Awards

The Society currently offers three Awards for its members:

The C N Davies Award

A Scholarship is awarded annually to graduate students undertaking a course of study leading to a Doctorate at a United Kingdom or Irish University. This Scholarship is intended to encourage a young science graduate to undertake postgraduate training in the field of aerosol science, and at the same time gain some experience in the presentation of work to a scientific audience.

In 2014, three applications were received. One of these awards was renewed in 2016.

For awardees for 2015, the Society received seven applications and made four awards. All four have been renewed in 2016.

There were five applications in 2016, and two of these were awarded.

Current holders (seven) of the award are listed in the table below.

| | | | |
|-------------|-----------------|-------------------------|---|
| 2014 | Aine Broderick | NUI | Indoor Aerosol Pollution Measurement in Energy Efficient Homes |
| 2015 | Alison Connolly | NUI, Galway | Occupational and bystander exposures to pesticide's during aerosol applications in horticulture and amenity gardening |
| | Rose Willoughby | University of Bristol | Improving the Understanding of the Optical Properties of Atmospheric Aerosols |
| | Joshua Holgate | Imperial College London | Liquid micro-droplet effects in a plasma |
| | Camille Bilger | University of Cambridge | Simulation and Modelling of Primary Breakup |
| 2016 | Robert Nishida | University of Cambridge | Development of a low-cost ultrafine particle sensor |
| | Alex Harrison | University of Leeds | Atmospheric mineral dust and its role in ice formation |

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. The following awards have been made during 2016:

| | | | | |
|------------------|---------------------------|---|--------------------|----------|
| Alison Connolly | NUI Galway | Annual International Society of Exposure Science (ISES) Meeting in Utrecht, Netherlands. | 9-13 October 2016 | £50 0 |
| Adel Mohamed | John Moores University | American Association Pharmaceutical Scientists (AAPS) National Biotechnology Conference. | 16-18 May 2016 | £70 0 |
| Ross Herbert | University of Reading | European Geosciences Union General Assembly 2016, Vienna, Austria. | 17-22 April 2016 | £50 0 |
| Aleksandra Marsh | University of Bristol | A Molecular Understanding of Atmospheric Aerosols', Chaminade, CA, USA. | 28 Aug-2 Sep 2016 | £50 0 |
| Melania Gorgetti | University of East Anglia | The 43rd Annual Meeting & Exposition of the Controlled Release Society (CRS) July 17-20, 2016 Seattle, Washington, USA. | 17-20 July 2016 | £50 0 |
| Pippa Douglas | Imperial College London | International Society for Environmental Epidemiology (ISEE) 28 th Annual Conference, Rome, Italy | 1-4 September 2016 | £60 0 |
| Aine Broderick | NUI Galway | Indoor Air 2016, 3 rd - 8 th July, Ghent, Belgium. | 3-8 July 2016 | £50 0 |
| Olusegun Fawole | University of Birmingham | 17th IUAPPA World Clean Air Congress and 9th CAA Better Air Quality Conference, Busan, South Korea. | 29 Aug-2 Sep 2016 | £50 0 |
| Robert Nishida | University of Cambridge | AAAR – American Association for Aerosol Research, 35th Annual Conference, Portland, Oregon, USA | 17-21 Oct 2016 | £50 0 |

Undergraduate Research Bursary

To promote greater engagement with undergraduate students, the Society launched a new 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, refer to the website.

There were seven applications (all of which were of high quality) for the bursary and the society supported the following two.

| | | |
|-----------------|--------------------------|--|
| Francis Pope | University of Birmingham | Future CO ₂ – Future bioaerosol concentrations? |
| Robert Ferguson | University of Essex | Characterisation of bioaerosol bacterial communities in different size fractions from urban, industrial and agricultural environments. |

Proposed Changes to the Aerosol Society Constitution 2016 AGM

Membership

5. The Society has the following categories of members:

Change from:

to:

- | | |
|--------------|--------------------|
| a) Ordinary | a) <u>Academic</u> |
| b) Honorary | b) <u>Industry</u> |
| c) Student | c) Honorary |
| d) Corporate | d) Student |
| | e) Corporate |
| | f) <u>Retired</u> |

Add:

8 Retired membership is open to previous members who have since retired and will be invited to join the Society and register for events at the student rate.

9. Corporate membership is available to industrial and commercial concerns that are willing to support the aims of the Society. Corporate members may send any two delegates to meetings at the industry membership rates ~~ordinary membership rates~~. They will also be entitled to concessions on advertising rates and exhibition charges.

11. Application for membership must be made through the Society Administrator ~~Membership Development Officer~~. The Committee will decide on the acceptance of new members, and reserve the right to refuse membership without explanation.

13. Membership lapses

- by a letter of resignation to the Committee,
- by the exclusion of a member, which is decided by the Committee, by a majority vote with at least three quarters of its members present after the person concerned has had the opportunity to be heard.
- if ceases to be paid when requested. ~~Six months after the membership fee was requested if it remains unpaid.~~

The Committee

Committee Meetings

29. **Replace these paragraphs:**

b) The General Secretary will ensure that the Society's affairs are conducted in accordance with the constitution, keep members informed of the affairs of the Society, provide minutes of meetings and issue the agenda and programme.

c) The Membership Development Officer will maintain an up to date list of names and addresses of member's details to be confidential to members of the Society, and to the members of other societies as approved at an AGM, and provide a directory of the members' interests.

With this paragraph:

b) The General Secretary will ensure that the Society's affairs are conducted in accordance with the constitution and promote membership of the Society by ensuring an up to date list of names and addresses of members is maintained, details of which to be confidential to members of the Society, and to the members of other societies as approved at an AGM, and also provide a directory of the members' interests.

Add:

f) The Education Officer is responsible for promoting young researcher training, development and engagement.

30. The Committee forms a quorum if all its members have been invited with adequate notice and there are five voting members present. Decisions are made by a majority of voting members present. In the event of a tie the President has the casting vote. In cases of urgency the President may ~~arrange for a postal vote or~~ simply solicit opinions from other Officers or Committee Members.

Use of Assets and Funds

32. Surpluses may only be used for the purposes of the Society. Members may only receive payments in so far as this takes place within the framework of an approved use of member's assets, or as reimbursement for their expenses, or as an approved award. Any expenditure must be authorised by any two designated members of the committee ~~of the President, Treasurer or General Secretary.~~

33. The funds of the Society may be used at the discretion of the Committee:

- a) to offer hospitality to invited speakers and delegates
- b) to cover all administration costs
- c) to further the aims of the Society

Add: d) to support charities.