



The Aerosol Society

Annual General Meeting

Thursday 9th November 2017

Nicolson Building, University of Birmingham, B15 2RT.

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The Aerosol Society

Annual General Meeting

11:45-12:15

Thursday 9th November 2017

Nicolson Building, University of Birmingham, B15 2RT.

Agenda

1. Welcome & Introductions – Society president
2. Minutes of Annual General Meeting 10th November 2016
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 10th November 2016

The Nicolson Building, University of Birmingham.

Present: 59 members attended the meeting

Approval of the Minutes of the Last Annual General Meeting (12th November 2015)

The minutes were approved as an accurate and true record of the 2015 AGM. Darragh Murnane proposed the minutes were formally adopted and asked 'who is willing to second this?'

Proposed: Darragh Murnane

Seconded: Ian Colbeck

Motion carried

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, and 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@aerosol-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).

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

Darragh Murnane asked if anyone had any questions regarding to the structure or initiatives of the Society?

No questions raised relating to the President and General Secretary's report.

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 (presented at the AGM by Darragh Murnane)

Darragh Murnane asked if there were any questions and expressed that he was more than happy to invite questions as realised the website investment was a large amount of Society money.

Sonia Mills (administrator) gave a live demonstration of the structure of the new Aerosol Society website and explained all the benefits for members.

Darragh Murnane also reminded that there is a parallel website for the DDL conference.

No questions raised relating to the treasurers report.

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	£500
Adel Mohamed	John Moores University	American Association Pharmaceutical Scientists (AAPS) National Biotechnology Conference.	16-18 May 2016	£700
Ross Herbert	University of Reading	European Geosciences Union General Assembly 2016, Vienna, Austria.	17-22 April 2016	£500
Aleksandra Marsh	University of Bristol	A Molecular Understanding of Atmospheric Aerosols', Chaminade, CA, USA.	28 Aug-2 Sep 2016	£500
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	£500
Pippa Douglas	Imperial College London	International Society for Environmental Epidemiology (ISEE) 28th Annual Conference, Rome, Italy	1-4 September 2016	£600
Aine Broderick	NUI Galway	Indoor Air 2016, 3rd - 8th July, Ghent, Belgium.	3-8 July 2016	£500
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	£500
Robert Nishida	University of Cambridge	AAAR – American Association for Aerosol Research, 35th Annual Conference, Portland, Oregon, USA	17-21 Oct 2016	£500

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.

Benjamin J Murray - Education Officer

Ben asked if there were any questions and reminded members to check the website for available awards and their deadlines.

No questions raised relating to the Education Officers report.

Election of Committee Members

Darragh Murnane: There is one vacancy on the committee and we have had one notification from an individual who wishes to stand and that is Matthew Wright from the University of Bristol.

Proposed: Darragh Murnane
Seconded: Allen Haddrell

No objections
Motion carried

Welcome Matthew, you have been formally re-elected as a committee member.

Proposed Changes to the Aerosol Society Constitution

Darragh Murnane: The final matter we need to discuss are some constitutional changes under 'membership', 'the committee' and 'use of assets and funds'. These were advised at the last AGM and also given notice of 2 months ago and we also sent out these changes to members in a formal report last week. (Changes/additions in red text).

Membership

Change the membership category of Ordinary to two categories of Academic and Industry and also introduce a category of Retired membership to offer reduced rates to these individuals.

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.

Proposed: Darragh Murnane
Seconded: Jonathan Reid
No objections
Motion carried

Change corporate membership to reflect the new member category of 'industry'.

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.

Proposed: Darragh Murnane
Seconded: Adam Boies
No objections
Motion carried

Applications for membership are no longer made through the Membership Development Officer, but through the Society administrator via the website.

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.

Proposed: Darragh Murnane

Seconded: Matthew Wright

No objections

Motion carried

Amend to: 'membership will lapse if it ceases to be paid when requested' as can now join/pay automatically online rather than by post as previously.

13. Membership lapses

- a) by a letter of resignation to the Committee,
- b) 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.
- c) if ceases to be paid when requested. ~~Six months after the membership fee was requested if it remains unpaid.~~

Proposed: Darragh Murnane

Seconded: Ben Murray

No objections

Motion carried

The Committee

The Membership Development Officer role no longer exists.

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.

Proposed: Darragh Murnane

Seconded: Adam Boies

No objections

Motion carried

Removal of option for postal votes as technology has replaced the need.

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.

Proposed: Darragh Murnane
Seconded: Amanda Lea-Langton

No objections

Motion carried

Use of Assets and Funds

Use of assets of funds – expenditure no longer needs to be sanctioned by officers as we give a set budget to certain pairs of individuals each year.

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.~~

Proposed: Darragh Murnane
Seconded: Don Clark

No objections

Motion carried

Propose Society also uses funds to support charities where appropriate.

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.

Proposed: Darragh Murnane
Seconded: Amanda Lea-Langton

No objections

Motion carried

Darragh Murnane: All of the proposed changes to the constitution have been adopted at the AGM 2016.

That concludes the formal AGM business. Does anyone have anything else of interest they wish to discuss?

No further questions.

The Aerosol Society Committee Officers and Members 2016

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 2017 AGM

Introduction

Welcome to the 2017 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. Birmingham's new conference facilities are being erected as we meet, and we are excited about the future meetings which we will be hosting in Birmingham over the Society's activities and your committee's performance during 2017. But of course, we provide a brief update on some of the ongoing activities in the current year, which comes to a close with DDL 28, which will again be held in Edinburgh in December 2017.

Since we met in November 2016, DDL 27 grew once more; maintaining attendance of over 700 delegates and with 92 exhibitors, the conference exhibition was over-subscribed. DDL has now firmly established itself as Europe's leading annual inhaled aerosols conference, and continues to grow its International importance. The Committee members also organized two further meetings in our series of Focus Meetings in winter and summer 2017. Since we met at the 2016 AGM, we also launched our new website in late Nov 2016 just in time for DDL, which has certainly improved organization of our 2017 focus meetings: Focus Meeting 9 Atmospheric Ice Nucleation Conference (Leeds) and Focus Meeting 10 – Bioaerosols (Bristol)

Committee news

At the 2016 AGM, Dr Matthew Wright was re-elected to the Committee, but he subsequently moved from the University of Bristol to Public Health England in Oxfordshire. We are grateful that PHE has allowed Matt to continue in his work on the Committee and it is fantastic to re-establish connections with one of the UK's homes of aerosol science. We were also delighted to welcome Dr Jacqui Hamilton back to active Committee membership following her maternity leave.

An update on the Aerosol Society's new strategic focus

Since Nov 2015 we have been delivering on 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

Our Committee continues to have a diverse mix of membership 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 engage their interests more. In 2017-18 we will work with all our sponsors (either corporate members or exhibitors at our events) to identify how we can support them better through our communications. The range of meetings continued to build partnerships with other learned societies, and broaden our membership. For example, starting with the Aerosols in Combustion & Energy Focus Group who organized the 2016 AASC, we also organized one of the UK's first meetings devoted to bioaerosols in 2017. 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 has grown significantly from 296 members to 458 since the last AGM (a 54 % increase in a single year). What is especially pleasing is that many of these members are new having attended Focus Meeting 9 and 10. Membership currently stands at 267 ordinary members, and we have maintained a strong student membership with 186 members. We are particularly pleased to have attracted new corporate members in 2016-17 and now have 7 corporate members. 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 Prof. Ben Murray introduced the first ever undergraduate summer studentship bursary, aiming to attract the next generation of researchers into aerosol science. We have had good uptake of our monthly newsletter mailshots, which have been better targeted to our current members since the new website launched in November. 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 websites

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, and in 2016-17 our administrators Sonia, Nikki and Sheila, and committee members Jonathan Reid (University of Bristol) and Matthew Wright (Public Health England) worked tirelessly and very effectively with our contractors, the Bristol-based company Deckchair UK Ltd. to design our new twin websites, which launched in autumn 2016. The website has already seen increased traffic and engagement, but most importantly has offered a significantly improved user experience for all signed-up members. The following are some key benefits for the Society's membership:

- We have been able to add a retired member category;
- Free annual membership can now be automatically offered with all non-member delegate tickets;
- The website provides enhanced functionality for our corporate members;
- Members can now build their own profile, connect with other members and our back catalogue of presentations and abstracts.

We always 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@aerosol-soc.com)

Drug Delivery to the Lungs 27

Welcoming over 700 attendees to the Edinburgh International Conference Centre, conference chair Gary Pitcairn opened the DDL27 meeting on December 7, 2016. The DDL 27 program offered the 710 delegates a look at emerging trends in drug delivery to the lungs, particularly in the areas of biologics, patient-focused development, but most particularly looking at moving beyond conventional devices, formulations and targets.

2016 was the 60th anniversary of the pressurized metered dose inhaler, and therefore an excellent point to reflect on inhaled product development and examine the future of the inhalation route for topical and systemic therapy. The conference opening plenary was given by Dr Samantha Walker, the Director of Research and Policy and Deputy Chief Executive of Asthma UK. In her plenary lecture, she described elegantly the work undertaken by Asthma UK as part of the European Asthma Research and Innovation Partnership (EARIP) to define research priorities for asthma in the EU. In a talk entitled "The European Asthma Research & Innovation Partnership – tackling Europe's high asthma prevalence and death rates," she highlighted how EARIP has identified four main priority areas for research which are personalized medicine, triggers and risk factors for asthma and exacerbations, self-management and adherence, and primary care and public health. In this spirit the DDL27 Annual DDL Lecture was presented by Dr Stephen P. Newman who examined the historical and contemporary issues in his lecture entitled "The challenge of delivering drugs to the lungs".

Professor Roland Buhl of Mainz University Hospital in Germany, held a plenary lecture "Biologics in Asthma – are we turning the corner?" on Day 2, in which he examined the amassing evidence in favour of using biological therapies in treating asthma.

Specifically, Professor Buhl examined the case for developing biomarker-led screening to identify the patients most likely to benefit from biological therapies. This was followed by the “Beyond Asthma & COPD” session which included talks on how to develop a naloxone nasal spray to treat opioid misuse; as well as novel approaches for chemotherapy for lung cancer, novel anti-inflammatory compounds, and an update on the development of inhaled oxytocin from Monash University, Australia.

DDL marked the occasion of the 60th anniversary of the pMDI with sessions focused on the developments in metered dose technologies. This included a session led by Professor Henry Chrystyn addressing inhaler device errors, and human factors assessment and human-factors directed in vitro testing for inhalation devices. Dr Tim Noakes discussed the next generation of propellants being developed to address global warming potential of HFAs, while Professor Glyn Taylor examined the case for delivery of biologicals and novel formulations from pMDIs.

As always, the meeting included a session featuring the finalists for the annual Pat Burnell New Investigator Award, which was awarded to Ahmed Shalash, of European Egyptian Pharmaceutical Industries (Egypt) for his talk “Carrier microstructure and performance of dry powder inhalation mixtures: A step towards universal performance prediction model”. The academic poster award went to Ayasha Patel of King’s College London for best academic poster for “Drug Loading of Human Albumin Nanocarriers for Inhaled Anti-Tuberculosis Therapy”. Best industrial poster went to Lars Karlsson of AstraZeneca for his poster titled “Performance Indicating Acoustic Emission Measurements on a Dry Powder Inhaler”.

In the exhibition hall, over 90 companies, including several first time exhibitors, showed off their products and services to the delegates. Exhibitors continued to be attracted from countries well-beyond the European Union. Several companies presented connected and e-devices for the management of lung disease for the first time, providing an insight into what the future holds for the continued development of approaches for drug delivery to the lungs.

Focus meetings

In 2017 we continued the provision of the new-format Aerosol Science Focus Meetings. 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 contact Sonia Mills (admin@aersol-soc.com).

Focus Meeting 9 – Atmospheric Ice Nucleation Conference.

This was an Aerosol Society Focus Meeting held jointly with the University of Leeds. In total over 85 delegates attended, and this was our first focus meeting with more international (70%) than UK-based delegates (30%) including attendees from as far as China and the USA. The meeting was held on 16th and 17th January 2017 with an opening keynote lecture by Prof. Rude Storelvmo from Yale University (USA) titled ‘On the importance of ice nucleation for simulations of past, present and future climate’. Further keynote speakers included Prof. Allan Bertram from the University of British Columbia (Canada), Prof. Thomas Leisner from Karlsruhe Institute of Technology (Germany), Cindy Morris, Director of the French National Institute for Agricultural Research (INRA) and Prof. Valeria Molinero from University of Utah (USA). Delegates enjoyed an excellent conference dinner held in the unusual location of the former Tetley Brewery in central Leeds, including learning of the history of Tetley, while also enjoying a ‘Yorkshire-inspired’ dinner! With all that excitement, there was even an opportunity for more junior delegates to speak at the conference and contribute to a well-attended poster presentation session.

Focus Meeting 10 – Bioaerosols

FM10 was held at the University of Bristol on 8th June 2017. Notably, many non-members joined our member delegates to share and interact with many superb presentations, and our 52 delegates relished the opportunity to discuss and explore a rapidly-evolving topic in the aerosol science. We were particularly delighted to host talks and to network and share research from 18 speaker presentations, headlined by Rob Kinnersley from the Environment Agency and supported by product demonstrations from Biral and Air Monitors. A team of independent reviewers appraised our junior scientist presentations throughout the day and we were delighted to present the awards for the most outstanding junior scientist presentations, sponsored by Atmosphere, to Sarah Windiate (DSTL, UK) for a talk on the fluid dynamics of aerosolisation and its effects on biological organisms and to Ikpe Ibanga (University of Leeds, UK) for his talk: 'Testing bioaerosol removal using pilot-scale biofilters at a material recovery facility'.

Keep your eyes open for FM11 Atmospheric Ice Nucleation Conference' which will be held in Leeds on the 16th-17th January 2017.

2016 Annual Conference

The Annual Aerosol Conference 2016 took place for the third time in its one-day format at the **University of Birmingham** on 10th Nov 2018. We continued to grow our attendance with over 80 delegates attending to hear some excellent presentations of high quality from Prof Simone Hochgreb (**University of Cambridge**), Prof David Kittelson (**University of Minnesota**), Dr Gary Fuller (**King's College London**) and Mark Johnson (**Rolls Royce, UK**). There were 10 other talks from UK-based scientists, including from Junior Researchers (PhD students or recent PhD graduates). We also had excellent support from our sponsors and exhibitors who the Committee gratefully acknowledges Air Monitors, Biral, Enviro Technology, Filter Integrity, National Physical Laboratory, and TSI Instruments Ltd. The Society was delighted to be able to award the Outstanding Junior Researcher Talk and Best Poster Contribution Prizes to Aleksandra Marsh (University of Bristol) and Allison Brooks (University of Reading), respectively. Delegates were also able to sign-up to take part in hands-on demonstrations with our exhibitors in scheduled sessions, which provided an excellent opportunity to establish new connections between vendors and the research community.

Fundamentals of Aerosol Science

The Fundamentals of Aerosol Science Meeting was run alongside AASC 2016, at the **University of Birmingham** on 9th Nov 2017, and attracted a total of 56 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. However, we were particularly delighted to welcome attendees from a variety of industries as well as from academic laboratories. Dr Adam Boies ended the day with a guest lecture linking fundamental aerosol science to the combustion theme of the AASC meeting which followed one day later. Our key focus as a Committee is maintaining the students' interest and engagement with the Aerosol Society after this excellent introduction, and Prof Ben Murray who is our Education Officer is developing a number of exciting initiatives to address this.

Awards and Sponsorship

The Aerosol Society again held a Small Research Grant (SRG) Scheme with an available fund of £5,000 in 2017. The proposals which were reviewed by an independent panel of assessors with one award of £3000 being funded to: **Dr Robert Ferguson**, University of Essex (*'Using metagenomics for fine-scale resolution of pathogen functional and phylogenetic diversity in farm bioaerosols'*). A DDL SRG worth £2000 was awarded to **Rachel Pritchard**, Liverpool John Moores University (*'Development of a aerosolisable nanocomposite microcarriers for the pulmonary delivery of novel chemotherapeutic combinations to reverse drug resistance in lung cancer cells'*). The committee also funded a total of 6 Early Career Scientist Travel Awards for international conference attendance, worth a value in excess of £2400. We

have also sponsored 8 PhD students in 2017 as part of the CN Davies Studentship Scheme, worth a total of £4,800, and also supported our first undergraduate research bursary worth £1200.

European Aerosol Assembly News

Given Prof. Murnane's rather unexpected absence, Prof Ian Colbeck and Prof Jonathan Reid represented the Aerosol Society very ably at the EAA Council meeting, held during the EAC 2017 in Zurich, Switzerland. At the meeting Prof Roberta Vecchi of the Italian Aerosol Society (EAA Chair for 2017 & 2018) and the assembly announced the reorganization of the Society's working group structure, which will now align more closely the EAC themes. Due to the impact of Brexit, and resultant concerns over the economic viability for a Society financially based in the UK, but also due to concerns over accommodation costs for delegates in Dublin, the Aerosol Society resubmitted its proposal to host EAC 2021. We are delighted to announce that EAC 2021 will now be held at the impressive Birmingham International Convention Centre.

Darragh Murnane: President

Markus Kalberer: General Secretary

Treasurer's Report to the 2017 AGM

The Aerosol Society has made a net loss of £8,806 for the 2016 financial year which compares to a loss of £9,413 in 2015. The finances for the Society in 2016 were generally in line with the underlying performance of the society. However, financial performance in 2016 surpassed the expectations made in the Annual Report for 2015 presented at the 2016 AGM, where we had predicted a higher loss due to the Society's long-term investment in developing the website, and in contracting extra administration to develop DDL. Overall the cost of the website development was broadly met by the increase in sales for 2016, and did not require utilization of the Society's long term reserves, an outcome which was better than predicted.

Sales in 2016 were up approx. £96k at £467,422 from £371,618 (2015). Significant growth in the attendance at DDL, in particular for exhibitors, as well as growth in attendance at Focus meetings has grown sales ahead of predictions. However, accommodating more exhibitors and growing DDL international brought with it an increase in cost of sales. Nevertheless, no Aerosol Society events ran a deficit in 2016 and attendance at non-DDL events continues to grow strongly year-on-year. The Society's finances continue to benefit immensely from the increasing success of DDL, which continues to provide resources to undertake activities which further the development of aerosol sciences in the United Kingdom and Ireland.

2016 was a strong financial year for the Society with a gross (trading) surplus of £133.8K from events including a successful DDL26. The DDL Sub-Committee have had extraordinary maintained its success of attracting over 600-plus conference attendees, with growth in the number of top-level sponsors and exhibitors from the pharmaceutical industry. All predictions are that the sponsorship and attendance remain strong throughout the 2017 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 2016 was £12.2K covering the CN Davies Awards, Student Travel Bursaries and the Small Research Scheme. The Society incurred significant costs for website development in 2016 (£43,634), in 2016, which saw us launch the new website. The administration costs were also higher in 2016 (£60,295) since we now contract a total of three administrators, to focus on distinct areas of the Society's ongoing development.

As a result of the loss generated in 2016, the overall net worth of the society, as of 31 December 2015 has once again decreased from £293,914 to £285,108, largely as a result of our investment in student awards and sponsorship. The net worth of the society has now returned to 2010 levels (£286,908) before EAC. However, the long-term cash reserves of the Society remain untouched (£160,287) which have grown with the moderate yield to be expected in the current economic climate. The Committee has therefore been able to accommodate year-on-year investment for society development, enhancing the appeal of the DDL conference, education and training entirely within the annual cash flow of the Society.

The Committee has now reached steady state in terms of new developments and investment. The benefits of the extra administrator continued to be displayed in 2016, with increased delegate numbers at our meetings, increased numbers of corporate sponsors at events such as the AASC, and improved communication with members. We predict ongoing savings in communication and internet costs from 2017 since the necessity for website maintenance (£11K per annum) will be vastly reduced to approximately £2.6K per annum. Indeed should conference sales maintain current trajectory, it may even be possible to generate a moderate trading surplus in 2017.

Mark Hammond
Treasurer

THE AEROSOL SOCIETY

**TRADING AND PROFIT AND LOSS ACCOUNT
FOR THE YEAR ENDED 31 DECEMBER 2016**

	31.12.16		31.12.15	
	£	£	£	£
Sales		467,422		371,618
Cost of sales				
Events		334,232		275,287
GROSS PROFIT		133,190		96,331
Other income				
Deposit account interest		595		747
		133,785		97,078
Expenditure				
Rent	1,137		1,147	
Insurance	635		636	
DDL administration	44,270		32,955	
Aerosol society administration	16,025		17,071	
Other operating leases	1,447		1,264	
Telephone	3,313		2,104	
Post and stationery	2,579		2,121	
Advertising	42		760	
Repairs and renewals	113		244	
DDL meeting expenses	3,151		3,503	
Meeting expenses	2,261		3,350	
Computer support	1,648		1,628	
Web site	43,634		11,284	
Sundry expenses	35		784	
Sponsorship	600		208	
Training	650		295	
Student awards	11,500		17,850	
Accountancy	1,440		1,320	
Depreciation of tangible fixed assets	1,399		1,827	
Bad debts	3,264		3,243	
		139,143		103,594
		(5,358)		(6,516)
Finance costs				
Bank charges	1,499		1,176	
Credit card	1,949		1,721	
		3,448		2,897
NET LOSS		(8,806)		(9,413)

THE AEROSOL SOCIETY**BALANCE SHEET
31 DECEMBER 2016**

	Notes	31.12.16 £	£	31.12.15 £	£
FIXED ASSETS					
Tangible assets	2		3,081		3,993
CURRENT ASSETS					
VAT		-		5,572	
Trade debtors		32,946		64,595	
Other debtors		39,447		-	
Prepayments and accrued income		3,538		-	
Prepayments		1,653		1,309	
Bank deposit account		542		542	
Bank account no. 1		44,923		83,474	
Bank account no. 2		160,287		159,692	
Cash in hand		551		551	
		<u>283,887</u>		<u>315,735</u>	
CURRENT LIABILITIES					
VAT		254		-	
Trade creditors		(1)		195	
Other creditors		1,497		25,199	
Accrued expenses		110		420	
		<u>1,860</u>		<u>25,814</u>	
			<u>282,027</u>		<u>289,921</u>
NET ASSETS					
			<u>285,108</u>		<u>293,914</u>
FINANCED BY					
CAPITAL ACCOUNT					
	3		<u>285,108</u>		<u>293,914</u>

THE AEROSOL SOCIETY

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2016**

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 2016	536	8,603	17,076	26,215
Additions	-	-	487	487
	<hr/>	<hr/>	<hr/>	<hr/>
At 31 December 2016	536	8,603	17,563	26,702
	<hr/>	<hr/>	<hr/>	<hr/>
DEPRECIATION				
At 1 January 2016	536	8,161	13,525	22,222
Charge for year	-	66	1,333	1,399
	<hr/>	<hr/>	<hr/>	<hr/>
At 31 December 2016	536	8,227	14,858	23,621
	<hr/>	<hr/>	<hr/>	<hr/>
NET BOOK VALUE				
At 31 December 2016	-	376	2,705	3,081
	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>
At 31 December 2015	-	442	3,551	3,993
	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>

3. CAPITAL ACCOUNT

	31.12.16 £	£	31.12.15 £	£
Brought forward	293,914		303,327	
Less				
Net loss	8,806		9,413	
	<hr/>		<hr/>	
		285,108		293,914
		<hr/>		<hr/>
		285,108		293,914
		<hr/> <hr/>		<hr/> <hr/>

Education Officer's Report for the AGM 2017

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 9th, 2016. The content of the course was similar to the revised course held in 2015, with seven lectures covering a broad range of topics in aerosol science from aerosol sampling from the environment to aerosols in energy. Some changes were made to FAS 2016. This included changes to some of the lectures to reduce overlap and ensure the material could be presented within the allotted time without rushing. Prof Murray presented a revised version of the 'Aerosol Thermodynamics and Kinetics' lecture previously presented by Prof Reid. Prof Kalberer's lecture focused on chemical composition rather than characterization in general.

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) **Aerosol Composition, Prof. Markus Kalberer (University of Cambridge)**
- (6) **Aerosol Thermodynamics and Kinetics, Prof. Ben Murray (University of Bristol)**
- (7) **Aerosols and Energy – From By-product to Opportunity, Dr. Adam Boies (University of Cambridge)**

This year we also introduced exhibitor demonstration sessions running in parallel with the lectures. These were allocated on a first come first served basis with sign-up sheets. These optional parallel sessions for small groups of candidates and 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.

There were 56 attendees (21 PG 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 (50 attendees), 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 (£787.73).

Given the continued growth and success of the course over the last four years, the committee recommended that the course should again be held at the University of Birmingham in November 2017, 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 2017, the committee recommended that the general plan for this successful day should be maintained.

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.

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

There were five applications in 2016, and two of these were awarded and two continued in 2017.

There were five applicants in 2017, three of these were awarded.

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

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
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
2017	Michael Adams	University of Leeds	Development and application of a portable expansion chamber to investigate atmospheric ice nucleating particles
	Precious Akhuemokhan	Kings College London	Next Generation Nebuliser Formulations
	Florence Gregson	University of Bristol	Evaporative Drying of Droplets and the Formation of Structured and Functional Microparticles

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 2017:

Camille Bilger	University of Cambridge	Sixteenth International Conference on Numerical Combustion (SIAM---NC17) - Orlando, Florida	3-5 April 2017	£400.00
Catherine Rolph	Open University	9th International Symposium on Modern Principles of Air Monitoring and Biomonitoring - Dresden, Germany	11-15 June 2017	£400.00
Aleksandra Marsh	University of Bristol	European Aerosol Conference, Zurich	28 August 2017	£400.00
Alison Connolly	NUI Galway	International Society of Exposure Science (ISES) - North Carolina, USA	15-19 Oct 2017	£400.00
Maria Kezoudi	University of Hertfordshire	Placement - Training on Lidar and Sun-photometer Retrievals	27 Nov 2017	£400.00
Sov Atkinson	Plymouth University	Shipping and the Environment - From Regional to Global Perspectives - Gothenburg, Sweden	24 Oct 2017	£400.00

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.

There were two applications for the bursary and the society supported the following.

Miriam Byrne	NUI Galway	Particulate Matter Concentration Measurement in Energy Retrofit Buildings
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Prof. B. J. Murray
Education Officer

Proposed Changes to the Aerosol Society Constitution 2017 AGM

The Committee

25. The Committee shall consist of five Officers: the President, the Deputy President, the General Secretary, the Treasurer, the Education Officer and eight other elected Members to include up to 3 DDL liaison Members. In addition, the Committee may co-opt extra members to assist them. Only the elected members may vote at Committee Meetings.

Propose to change to:

25. The Committee shall consist of five Officers: the President, the Deputy President, the General Secretary, the Treasurer, the Education Officer and *a minimum of* eight other elected Members to include up to 3 DDL liaison Members. In addition, the Committee may co-opt extra members to assist them. Only the elected members may vote at Committee Meetings.