



the
**aerosol
society**

the science of airborne particles

The Aerosol Society

Annual General Meeting

Thursday 8th November 2018

Edgbaston Park Hotel, University of Birmingham, B15 2RS.

The Aerosol Society

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The Aerosol Society

Annual General Meeting

14:45 -15:15 Thursday 8th November 2018
Edgbaston Park Hotel, University of Birmingham, B15 2RS.

Agenda

1. Welcome & introductions – Society President
2. Minutes of Annual General Meeting 9th November 2017
3. Matters arising
4. President's & General Secretary's report
5. Treasurer's report
6. Education Secretary's report
7. Proposed constitutional changes
8. Elections to the committee
9. Any other business



Minutes of the Aerosol Society Annual General Meeting Thursday 9th November 2017.

The Nicolson Building, University of Birmingham.

Present: 68 Society members attended the meeting.

Darragh Murnane welcomed everyone to the 2017 Aerosol Society AGM. He revisited the 2016 AGM agenda and highlighted that under 'matters arising', we had been unable to demonstrate the new Aerosol Society website at the last (2016) AGM due to connection issues.

He confirmed the website did launch on 9th November 2017 and it was expected that all members had been able to view and use the website www.aerosol-soc.com, as they would have needed to register via the website to attend today.

Approval of the Minutes of the Last Annual General Meeting (10th November 2016)

Darragh Murnane asked '*does any member have any questions regarding the minutes from last year?*'

The minutes were approved as an accurate and true record of the 2016 AGM. Darragh Murnane (Society President) proposed the minutes were formally adopted and asked, '*who is willing to second this?*'

Proposed: Darragh Murnane

Seconded: Jonathan Reid

Motion carried

Darragh confirmed that the 2017 AGM reports were posted on the website for members to view in advance of the meeting.

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@aersol-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'.

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 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

Darragh asked '*does anyone have any questions?*' - No questions raised.

Treasurer's Report to the 2017 AGM

In the absence of Mark Hammond, Darragh Murnane presented the Treasurer's report.

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

Darragh asked *'does anyone have any questions about the Society's finances?'* - No questions raised.

**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		<u>133,190</u>		<u>96,331</u>
Other income				
Deposit account interest		595		747
		<u>133,785</u>		<u>97,078</u>
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	
		<u>139,143</u>		<u>103,594</u>
		(5,358)		(6,516)
Finance costs				
Bank charges	1,499		1,176	
Credit card	1,949		1,721	
		<u>3,448</u>		<u>2,897</u>
NET LOSS		<u>(8,806)</u>		<u>(9,413)</u>

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>

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

3. CAPITAL ACCOUNT

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

Education Officer's Report for the AGM 2017

In the absence of Ben Murray, Simon Parker presented the Education Officer's report.

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 Akhukhan	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”.

Prof. B. J. Murray

Education Officer

Proposed Changes to the Aerosol Society Constitution 2017 AGM

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.

Darragh Murnane proposed a change of article 25 of the Society constitution 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.

Darragh Murnane asked, ‘*who is willing to second this?*’

Proposed: Darragh Murnane

Seconded: Ian Colbeck

Darragh Murnane asked *'are there any opposing voices to this amendment?'* – none raised.

Motion carried

Committee Elections

Darragh Murnane confirmed that his term as Society President had now come to an end and before the new President was elected he would like to thank Sonia (Mills), and also Nikki (Evans) and Sheila (Coates) for all their hard work and fantastic support. He also thanked the committee for their activities over the last 4 years.

Darragh officially resigned.

Darragh Murnane: *'I propose that the Vice President for the last 2 years, Jonathan Reid, should replace me as Society President. We've received no notifications of anyone who wishes to stand for this position. However, of course there is an opportunity now if anyone else wishes to stand?'*

Darragh Murnane asked, *'who is willing to second this proposal for Professor Reid?'*

Proposed: Darragh Murnane

Seconded: Simon Parker

Darragh Murnane: *'Are there any oppositions to this proposal?'* (none raised) *Therefore I would like to hand over to Professor Reid from Bristol'.*

Motion carried

Jonathan Reid thanked Darragh Murnane.

Jonathan Reid confirmed that we also were required to now elect a new Vice President. The committee suggests that to provide continuity (and mirrors organisations such as AAAR), the resigning President steps into the Vice President role for 1 year post stepping down as this has many advantages.

Jonathan Reid: *'I propose that Darragh Murnane is elected as Vice President. Are here any challengers or opposing voices to this?'* - none raised.

Proposed: Jonathan Reid

Seconded: James McGrath

Motion carried

Ian Colbeck confirmed that the whole committee (excluding Matthew Wright) were due to be re-elected.

Jonathan Reid confirmed the members (and their positions) up for re-election:

Markus Kalberer General Secretary

Mark Hammond Treasurer

Ben Murray Education Officer

Adam Boies

Ian Colbeck

Jacqui Hamilton

James McGrath

Gary Pitcairn

Omar Usmani

Matthew Wright

Co-opted committee members due to become ordinary committee members:

Dave Worton

Janine Jordan

Amanda Lea-Langton

Paul Williams

Jonathan Reid: *'I would like to re-elect the aforementioned committee members en-masse. Do I have someone who is willing to propose this?'*

Proposed: Darragh Murnane

Seconded: James McGrath

Jonathan Reid: *'Are there any oppositions to this proposal?'* (none raised)

Ian Colbeck explained to the AGM that a committee member is elected for a minimum of 2 years however you can only serve on the committee for 10 consecutive years unless permission to extend this is granted from the members at an AGM for a specific individual. Simon Parker has served for 9 years could not be elected for a further 2 years. The solution would be to either request permission from the members to extend the 10-year rule and re-elect Simon for a further 2 years or vote to make Simon a co-opted committee member instead.

Jonathan Reid: *'Thank you Ian. We would like to maintain the balance of the committee. I would like to say at this point that if anyone here is interested in joining the committee and/or contributing to the running of the Society, please do come and see me. We would be very responsive and whilst we are mindful that it is good to have stability, due to things like the EAC in 2021, there will need to be a redistribution of roles so we are keen to involve new committee members. Please do talk to me or any other committee members should you wish to be involved in any way'*

Jonathan Reid: *'I would like to propose, with the agreement of the AGM (members) that Simon Parker is re-elected to the committee for a further 2 years.'*

Proposed: Jonathan Reid

Seconded: Darragh Murnane

Jonathan Reid: *'Are there any oppositions to this proposal?'* (none raised)

Jonathan Reid: *'Please do come and talk to any of the committee if you would like to be co-opted onto the Society committee, even if only for a year to try it out'*.

Any other business

Jonathan Reid asked the AGM if there any other business – none raised.

Jonathan Reid congratulated Darragh on his time as Society President and commented:

'Darragh has served for 4.5 years in the role and during that time has put in a considerable amount of time and effort. During this time, we should all recognise that he has had a real vision of where the Society should be heading in terms of income, membership and events to name but a few.

There has been a real change in how we operate under his leadership, it's been a very busy 4.5 years and the vision Darragh has had has been critical for the success the Society has had. We would really like to thank him for all the hard graft he has put in. He highlighted some of the changes in his report and there has been quite a change in the way we operate, the events we hold, the increased Focus Meetings, the rejuvenated Annual Conference and Fundamentals Day to increasing the student grants and awards we offer.

He has expanded our administrative support which has been a good investment, sub-committee working groups have been introduced, there was the big undertaking of delivering the website and of course, securing the EAC 2021 for the Society. He has also developed a closer working relationship between the DDL committee and the broader Society which is key to our previous and future success.

There has been lots happening during his tenure and that has been down to his leadership. So, I would like to thank Darragh for all he has done and present him with this gift on behalf of us all.'

(Applause from AGM)

Darragh thanked Jonathan, the committee and AGM members.

Jonathan Reid: *'That concludes the formal AGM business. Does anyone have anything else of interest they wish to discuss?'*

No further questions.

The President and General Secretary's Report to the 2018 AGM

Introduction

Welcome to the 2018 Annual General Meeting of the Aerosol Society. This is now our fifth successive Annual Conference and General Meeting at the University of Birmingham, with this our first meeting in the new conference venue. Each year, the conference has grown in size and the transition to the new venue is certainly welcome, providing more space for exhibitors, poster presenters and attendees. We hope you enjoy the new venue and the science presented.

The last year has been another busy year for the Society with another successful *Drug Delivery to the Lungs* conference in Edinburgh in December 2017 attended by almost 750 and breaking 100 in the number of sponsors. The continued success of DDL is crucial for the sustained health of the Society and the opportunities it provides to invest in supporting early career researchers. Other activities have included the 2nd Focus Meeting (FM 11) on Ice Nucleation in January 2018, co-chaired by Ben Murray. We have also continued to support early career researchers through the award of small research grants, travel awards and CN Davies awards. New awards for 2018-19 include the Photography Competition and the Doctoral Thesis Prize, rewarding excellence in doctoral research and awarded in recognition of an outstanding body of aerosol-related research. We are continuing to evolve and refocus many of our awards, and there will be some exciting changes for 2019, to be announced soon.

At the recent *International Aerosol Conference* in St Louis, the International Aerosol Research Assembly awarded Professor Ian Colbeck with the prestigious *International Aerosol Fellow Award*. The award recognizes outstanding contributions to aerosol science and technology through research, technical development, education and service. The award jury highlighted the many roles played by Ian within the aerosol field, both nationally and internationally. They especially commended his fundamental pioneering research on fractal shaped particles and bioaerosols, and in establishing transnational links between the UK and Pakistan in various air pollution research initiatives. The only previous UK recipient was Charles Clement in 2008. Ian shared the 2018 award with Dr Susanne Hering of Aerosol Dynamics Inc. We are grateful for his long standing support for the Society over many decades.

Committee news

Jonathan Reid was elected President of the Society at the last AGM with Darragh Murnane stepping into the Vice-President role, a practice we will seek to encourage in the future to maintain some short-term continuity. During 2018, Jacqui Hamilton was co-opted into the role of Treasurer and Matt Wright into the role of General Secretary. We are grateful to Mark Hammond and Markus Kalberer who faithfully served in these two roles for a number of years. Markus has now moved to Switzerland to a position at the University of Basel and we wish him well for the future. Marc Stettler joined the committee as a co-opted member during 2018.

An update on new initiatives for 2018-19

During the next year, we plan to hold our first meeting in conjunction with the annual *Cambridge Particle Meeting* with a focus on combustion aerosol. We hope this will become a regular event in this important area of aerosol science. Many of the members of the Aerosol Society committee have contributed to a bid to the *Engineering and Physical Science Research Council* for a *Centre for Doctoral Training* (CDT) in Aerosol Science. The outcome will be known before the end of the calendar year. If funded, we anticipate the CDT could provide a springboard for research in aerosol science across the UK over the next 8 years. During 2019, we intend to review how the Society engages with industry and public sector partners, with a view to building stronger and more substantive links across the UK aerosol science community. Finally, we believe that achieving equality, diversity and inclusion across the aerosol science community is

crucial to future success and will consider mechanisms by which the Society can promote diversity in the workforce.

Membership

We are pleased to report that our membership continues to grow, and now stands at 598 members, an increase from 458 at the last AGM and over double that in 2016. In the past year this has largely been driven by an increase in Student members (321 this year, compared with 182 at the last AGM). This is particularly encouraging as a key focus of our activities in recent years has been to attract and support students and young researchers starting out in their careers in aerosol science. Going forward, we will work to retain as many of these student members as possible into full membership. Membership in our Academic (94 members, compared with 86 last year) and Industry (174 members, compared with 186 last year) categories remains stable, and we are pleased that uptake into our Retired membership category (9 members, compared with 4 last year) reflects, we hope, continued interest in our activities from members retiring from roles in active research. The support of our Corporate members is also greatly important to us and we are delighted to have increased the number of Corporate members from 7 to 11 in 2017-18.

Website and Communications

Earlier this year, the administration team undertook significant activities to ensure the Society, our website and communications continue to remain compliant with the recently updated General Data Protection Regulations (GDPR). We have appointed an external advisory Data Protection Officer and have published an updated Society privacy policy. All Society members were given the opportunity to confirm their preferences with regard to Society communications. Work continues behind the scenes to add further improvements to the website functionality.

In other news, we have added a “What’s happening at the Aerosol Society” section to the homepage to quickly update visitors to the latest news and events. We also encourage members to log on to the Members area of the website and build or update their Member Profile and connect with other members.

We continue to send out monthly Newsletters via email. This remains an important vehicle for communicating our activities, reaching a growing audience of Society members. Although we maintain regular content and features curated by the Committee and our Administrator, we would be delighted to include contributions, large or small, from members and strongly encourage you to consider submitting an article. If you have any comments on items in the Newsletter or on the Website, or would like to contribute a topical news article, showcase your group’s research, or advertise a job, PhD vacancy or upcoming event, please submit these contributions to Sonia Mills (admin@aersol-soc.com).

Drug Delivery to the Lungs 2017

The 28th Drug Delivery to the Lungs (DDL) Conference was held at the Edinburgh International Conference Centre between 6th and 8th of December 2017. The event hosted 740 delegates from all over the world and featured a five-session scientific lecture programme supported by 87 poster presentations. The Industry Exhibition was the largest yet with 101 sponsors from the pharma industry exhibiting.

The event was preceded by a mini-symposium organised by the SimInhale COST Action group www.siminhale-cost.eu. This specialist session addressed the difficult task of “Designing Inhalers for Children and Infants” by analysing physiological, technical and regulatory considerations; encouraging the audience to contemplate what changes or adjustments may be required to licensed adult inhalers to deliver therapeutic aerosols to

infants and young children. Dr Sitaram Velaga and Mr Wilbur de Kruijf chaired the symposium and moderated a short discussion session following the lectures.

The DDL programme which included sessions on 'Emerging Therapeutics and Novel Respiratory Medicines' and 'Inhaled Therapy in Special Populations' invited talks from a range of speakers. Themes such as modelling techniques, development of inhaled antibiotics for diseases, and the use of acoustics for inhaler monitoring and characterisation were discussed over the three day programme.



The inaugural DDL Emerging Scientist Award was unveiled during the event. The DDL Organisers wished to encourage promising scientists to be ambitious and to promote their career progression. This award recognises talent and achievement of researchers within 15 years of their post-graduation. Francesca Buttini, University of Palma won the award and presented her lecture on "Engineered Microparticles for DPI construction and Powder Administration Strategy." Her research had impressed the judging panel and she was awarded the £1000 fund alongside being invited to present at the conference.

DDL2018 will offer the same opportunity

to other Emerging Scientists; see the website for more details.

Professor Myrna Dolovich, McMaster University presented the annual DDL Lecture 'Looking Back and Looking Ahead: Developments in Aerosol Medicine over the last 50 years – Devices, Drugs and Detection of Disease' and became the seventh doyen to be bestowed this lifetime achievement award.



Six researchers presented their abstracts as a poster and a podium presentation as part of their bid to achieve the Pat Burnell New Investigator award. The winner was Ayasha Patel from King's College London with her talk on 'Loading, Release and Activity of Inhalable Benzothiazinone-Loaded Human Albumin Nanocarriers for Anti-tuberculosis Therapy'. This was the second time Ayasha has been awarded at the DDL Conference; winning Best Academic Poster the year before at DDL27 in 2016.

Congratulations also went to Judith Heidland, of Kiel University for winning the Best Academic Poster entitled "Nano-in-microparticles for dry powder vaccination – possible for nasal application?" and to Kyrre Thalberg, from Astrazeneca for winning the Best Industrial Poster with his abstract "Multi-Scale Modelling of the Formation of Adhesive Powder Mixtures for Inhalation." All abstracts from the conference are available to view on the DDL Conference website www.ddl-conference.com.

DDL2017 welcomed delegates from all across the world including China, Korea, the USA, New Zealand and India. The interest in sponsoring this annual event builds in momentum each year, showing clearly that this is THE primary nasal and pulmonary inhaled medicines conference.

Focus meetings

Our series of Aerosol Science Focus Meetings continued into 2018, albeit with only one meeting held during the year. 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, and we encourage Society members to get involved. To propose a topic for a Focus Meeting, or to organize your own meeting, contact Sonia Mills (admin@aersol-soc.com).

We anticipate holding two Focus Meetings in 2019. The next (Focus Meeting 12) will be held in Cambridge in 2019 in conjunction with the annual *Cambridge Particle Meeting* and will focus on combustion aerosol, from new particle formation through to emission measurements and regulation. Plans are taking shape for FM13 and we will circulate details soon.

Focus Meeting 11 – 2nd Atmospheric Ice Nucleation Conference

Focus Meeting 11, the “INUIT Final Conference and Second Atmospheric Ice Nucleation Conference” was held from 26 February – 1 March 2018 in Grasellenbach, Germany, jointly organized by the INUIT Research Group and The Aerosol Society. The conference hosted invited talks by solicited speakers (Dan Cziczo, MIT; Paul DeMott, Colorado State University; Annica Ekman, Stockholm University; Naruki Hiranuma, Texas A&M; Corinna Hoose, Karlsruhe Institute of Technology and Zamin Kanji, ETH Zurich) and a further 34 proffered platform presentations and 34 posters.

Focus Meeting 12 – Bioaerosol-Lung Interactions

Unfortunately, we were forced to postpone this meeting due to date clashes. We hope to hold this meeting during 2019.

2017 Annual Aerosol Science Conference

Our Annual Aerosol Science Conference 2017, titled *Pushing the limits in aerosol measurements and simulations*, was held at the University of Birmingham on 9th November 2017. A record number of delegates (86) attended and heard plenary talks from Barbara D’Anna (French National Centre for Scientific Research, *Unregulated emissions from Euro5/Euro 6 passenger cars*), Robert Price (University of Bath, *Understanding the relationship between material properties and processing conditions on the microstructure of an aerosolised dose*) and Jim Haywood (University of Exeter/Met Office, *Using volcanic eruptions to unlock the secrets of aerosol-cloud-interactions*) alongside a number of other speakers and poster sessions. 19 early career researchers (posters & talks) were independently reviewed for our Outstanding Junior Researcher Awards, kindly sponsored by NPL. Paul Quincey of NPL presented these awards to Rose Willoughby (University of Bristol) for her poster *Measurements of the Real and Imaginary Refractive Index of Single Aerosol Particles* and to Alison Connolly (NUI Galway) for her presentation *Occupational exposures to pesticide products among amenity horticulturists*. We were also delighted to fill our exhibitor capacity this year and would like to thank Air Monitors, Biral, Enviro Technology, Environmental Science: Processes & Impacts Journal, Filter Integrity, NCAS, NPL, Scielutions and TSI for their continued support. We received largely positive feedback – we are very grateful for the 24 responses and encourage attendees at this year’s edition to tell us their thoughts – but will continue to work to improve the meeting based on all comments received, positive or otherwise.

Fundamentals of Aerosol Science

As usual the Fundamentals of Aerosol Science Meeting was run alongside AASC 2017 at the University of Birmingham on 8th November 2017. We are very pleased to report that attendance at this well-established one-day event remains high (60 delegates, including 34 students) and the day was well received by the attendees (25 responses to our feedback questionnaire). The final lecture, which we introduced to link the fundamental aerosol science introduced during the day to the theme of the following day’s Annual Conference, was given by Paul Quincey (NPL) on *Aerosol Regulation and Metrology*.

Awards and Sponsorship

This year's Aerosol Society Small Research Grant (SRG) was awarded to Fiona Smail, University of Cambridge (*Optimisation of Continuous Carbon Nanotube Aerogel formation for Scale up - Kinetics of Carbon Nanotube Growth*; £4,310), and the DDL Small Research Grant was awarded to Magda Swedrowska, King's College London (*In vitro deposition of an insulin nasal spray for nose-to-brain delivery in a nasal cast*; £1,600). We also continued to support students and young researchers through our Early Career Scientist Travel Awards to encourage attendance at international conferences; £4,000 was awarded to 8 applicants, 4 of whom attended the *International Aerosol Conference* in St. Louis, USA. The CN Davies Scholarships currently supports 7 students (4 renewals of existing awards, 3 new applicants) with total award value £4,200. Unfortunately, we received no applications for our Undergraduate Student Bursary award this year, but we encourage prospective supervisors to apply for the 2019 award, details of which (alongside all our other awards) can be found on the Aerosol Society website at <https://aerosol-soc.com/grants-and-awards/>

European Aerosol Assembly News

1500 delegates attended the 10th *International Aerosol Conference* (IAC 2018) which was held at the America's Center in St. Louis, Missouri, USA from September 2nd -7th, 2018. 5000 authors submitted 1654 papers which contributed to an impressive programme. In June, 243 participants attended *Aerosol Technology 2018* in Bilbao, Spain. The program scientific program consisted of 4 Plenary Lectures, 110 oral presentations and 100 Posters. The *European Aerosol Conference 2019* will take place at the Swedish Congress and Exhibition Centre in Gothenburg August 25-30, 2019. From 2018-2020, GAeF will lead EAA. The newly elected GAeF president and secretary general are: Helmut Horvath (President) and Birgit Wehner (Secretary General).

European Aerosol Conference 2021

As reported at the last Annual Conference, the UK will host the European Aerosol Conference in 2021 at the International Convention Centre in Birmingham. Plans are already underway, with the Society signing a contract with the ICC and considering possibilities for the conference banquet and social events.

Jonathan Reid: President

Matthew Wright: General Secretary

Treasurer's Report to the 2018 AGM

The financial year has been moved to April-March from January-December to make financial forecasting simpler, pending AGM approval. Therefore this report describes the financial statement from January 2017 until 31 March 2018, a period of 15 months. The Aerosol Society has made a net profit of £2,204 for the 2017 financial year, which compares to a loss of £ 8,806 in 2016. The finances for the Society in 2017 were generally in line with the underlying performance of the society. Financial performance in 2017 has allowed a small surplus to be achieved.

Sales in 2017 continue the recent increase, and were up approx. £74k at £541,358 from £467,422 (2016). It should be noted that the timing of this report captures the majority of the sales from DDL27 and some income from DDL26 and so these sales figures are forecast to be lower in the next report. 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 internationally brought with it an increase in cost of sales. Nevertheless, all Aerosol Society events made a profit 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.

2017 was a strong financial year for the Society with a gross (trading) surplus of £174,186 from events including a successful DDL27. The DDL Sub-Committee have had extraordinary success of attracting over 600-plus conference attendees, with significant 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 2018 financial year, and the committee has been able to offer free attendance to registered students.

The society has continued to increase expenditure on awards. The total value of awards in 2017 was £18,900 covering the CN Davies Awards, Student Travel Bursaries and the Small Research Scheme. The expenditure on awards is forecast to increase in 2018 with a number of new innovations including the Doctoral Thesis Prize, Photography Competition and the renaming and change in focus of the small research grants to become Career Development Grants, which will increase our commitment to developing the next generation of Aerosol scientists. The Society incurred significantly lower costs for the website in 2017 (£17,365 compared to £43,634 in 2016). The administration costs in this period were higher in 2017 (£82,230 compared to £60,295). A substantial fraction of this increase reflects the timing of this report, which covers 15 months rather than the usual 12 months. Meeting expenses have increased by around £10k in 2017, as a result of a change in policy to cover the travel expenses of committee members attending committee meetings and the hire of a room at the Royal Society of Chemistry as the previous location is no longer available. A 10 % deposit for the Birmingham Conference centre (£13,500), where the society will hold the European Aerosol Conference in 2021 is included as expenditure in this statement.

As a result of the profit generated in 2018, the overall net worth of the society, as of 31 March 2018 has increased slightly from £285,108 to £287,314. The net worth of the society remains around the 2010 levels (£286,908) before EAC. However, the long-term cash reserves of the Society remain untouched (£160,565) which have grown with a small 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 benefits of the extra administrator continued to be displayed in 2017, with increased delegate numbers at our meetings, increased numbers of corporate sponsors at events such as the AASC, and improved communication with members.

Jacqueline Hamilton
Treasurer

THE AEROSOL SOCIETY

**TRADING AND PROFIT AND LOSS ACCOUNT
FOR THE PERIOD 1 JANUARY 2017 TO 31 MARCH 2018**

	Period 1.1.17 to 31.3.18		Year Ended 31.12.16	
	£	£	£	£
Sales		541,358		467,422
Cost of sales				
Events		367,451		334,232
GROSS PROFIT		173,907		133,190
Other income				
Deposit account interest		279		595
		174,186		133,785
Expenditure				
Rent	6,334		1,137	
Rates and water	95		-	
Insurance	515		635	
DDL administration	54,329		44,270	
Aerosol society administration	27,901		16,025	
Other operating leases	1,877		1,447	
Telephone	4,177		3,313	
Post and stationery	4,880		2,579	
Advertising	888		42	
Repairs and renewals	109		113	
DDL meeting expenses	13,073		3,151	
Meeting expenses	8,360		2,261	
Computer support	3,824		1,648	
Web site	17,365		43,634	
Sundry expenses	582		35	
Sponsorship	-		600	
Training	-		650	
Student awards	18,900		11,500	
Accountancy	1,660		1,440	
Depreciation of tangible fixed assets	1,732		1,399	
Bad debts	930		3,264	
		167,531		139,143
		6,655		(5,358)
Finance costs				
Bank charges	3,275		1,499	
Credit card	1,176		1,949	
		4,451		3,448
NET PROFIT/(LOSS)		2,204		(8,806)

THE AEROSOL SOCIETY**BALANCE SHEET
31 MARCH 2018**

	Notes	31.3.18 £	£	31.12.16 £	£
FIXED ASSETS					
Tangible assets	2		3,900		3,081
CURRENT ASSETS					
Trade debtors		171,655		32,946	
Other debtors		52,798		39,447	
Prepayments and accrued income		-		3,538	
Prepayments		649		1,653	
Bank deposit account		693		542	
Bank account no. 1		65,600		44,923	
Bank account no. 2		160,565		160,287	
Cash in hand		26		551	
		<u>451,986</u>		<u>283,887</u>	
CURRENT LIABILITIES					
VAT		22,341		254	
Trade creditors		(2)		(1)	
Other creditors		145,856		1,497	
Accrued expenses		379		110	
		<u>168,574</u>		<u>1,860</u>	
			<u>283,412</u>		<u>282,027</u>
NET ASSETS			<u>287,312</u>		<u>285,108</u>
FINANCED BY					
CAPITAL ACCOUNT	3		<u>287,312</u>		<u>285,108</u>

THE AEROSOL SOCIETY

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE PERIOD 1 JANUARY 2017 TO 31 MARCH 2018**

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.

Office equipment	- 20% on reducing balance
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 2017	536	8,603	17,563	26,702
Additions	230	165	2,156	2,551
	<u>766</u>	<u>8,768</u>	<u>19,719</u>	<u>29,253</u>
At 31 March 2018	766	8,768	19,719	29,253
DEPRECIATION				
At 1 January 2017	536	8,227	14,858	23,621
Charge for period	46	81	1,605	1,732
	<u>582</u>	<u>8,308</u>	<u>16,463</u>	<u>25,353</u>
At 31 March 2018	582	8,308	16,463	25,353
NET BOOK VALUE				
At 31 March 2018	<u>184</u>	<u>460</u>	<u>3,256</u>	<u>3,900</u>
At 31 December 2016	<u>-</u>	<u>376</u>	<u>2,705</u>	<u>3,081</u>

3. CAPITAL ACCOUNT

	31.3.18 £		31.12.16 £	£
Brought forward	285,108	£	293,914	
Add Net profit	2,204		-	
	<u>287,312</u>		<u>293,914</u>	
Less Net loss	-		8,806	
	<u>287,312</u>	<u>287,312</u>	<u>293,914</u>	<u>285,108</u>
		<u>287,312</u>		<u>285,108</u>

Education Officer's Report for the AGM 2018

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 8th, 2017. The content of the course was similar to previous years, with seven lectures covering a broad range of topics in aerosol science from aerosol sampling from the environment to aerosols thermodynamics and kinetics. The final lecture, which we have been dedicating to a more an application focus, was given by Dr Paul Quincey from the National Physical Laboratory on Aerosol Regulation and Metrology.

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 with an opportunity for networking with a drinks reception at the end.

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) Aerosol Regulation and Metrology, Dr Paul Quincey – National Physical Laboratory

We ran exhibitor demonstration sessions 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 60 attendees (34 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 (56 in 2017, 50 in 2016), hence maintaining the growth from 2013 (36 attendees; 21 PG students and 15 non-students).

<i>(Known) Delegate Affiliation</i>	
University of Leeds	9
University of Manchester	8
University of the Punjab	8
University of Birmingham	4
University of Bristol	2
University of Cambridge	2
University of Hertfordshire	2
Imperial College London	2
Royal Holloway	2

Auckland University	1
Cambustion	1
Cranfield University	1
DSTL	1
Open University	1
Protec Fire Detection Plc	1

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 of £723 in 2017 (£787.73 in 2016).

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 2018, just prior to the Annual Aerosol Society Conference. It was evident that many students stayed on for the annual conference on the following day and this was considered a positive route to encouraging engagement with the wider activities of the Society.

Looking to FAS in 2018, the committee have recommended some changes. Prof Kalberer has left the UK for a position in Switzerland, hence this presented an opportunity to make changes to the course material and bring some new lectures in. The general structure and focus will be maintained in 2018. The planned structure for 2018 is:

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

Training & Awards

The Society currently offers three education related 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 in 2015, the Society received six applications; two renewals and four new awards. All were granted, and one has been renewed in 2018.

For 2016, the Society received nine applications; four renewals and five new applications. All renewal applications were granted, and three of the five new applications accepted. One has been renewed in 2018.

For 2017, the Society received nine application; 6 renewals and three new applications. Five renewal applications were granted, and all three new applications were awarded. All three have been renewed in 2018.

There were three new applications in 2018, all three were awarded.

Current holders (seven) 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
2016	Alex Harrison	University of Leeds	Atmospheric mineral dust and its role in ice formation
2017	Precious Akhuemokhan	Kings College London	Next Generation Nebuliser Formulations
	Florence Greson	University of Bristol	Evaporative Drying of Droplets and the Formation of Structured and Functional Microparticles
2018	Nina Wemken	NUI Galway	Persistent organic pollutants in occupational And private environments
	Zachary Enlo-Scott	Kings College London	Respiratory bioavailability and comparative toxicology following inhalation of pesticide aerosols.
	Karrar Al-Diwari	University of Leeds	Droplet collisions in spray drying

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 2018:

Name	Affiliation	Event	Awarded
Sarah Shallcross	University of Leeds	EGU 2018 - European Geosciences Union General Assembly 2018, Vienna.	500
Damian Oyarzun	University College London	11th International Conference on Air Quality – Science and Application	500
Flo Gregson	University of Bristol	IAC 2018	500
Godwin Akpeimeh	University of Leeds	IAC 2018	500
Mara Otero-Fernandez	University of Bristol	IAC 2018	500
Stephen Ingram	University of Bristol	IAC 2018	500
William Dixon	University of York	2018 joint 14th iCACGP Quadrennial Symposium and 15th IGAC Science Conference Japan.	500
Thomas Whale	University of Leeds	Water: Driving Life, Medicine, Energy and Environment, USA	500
			£4,000

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 no applications this year.

Prof. B. J. Murray
Education Officer

PROPOSED CONSTITUTION CHANGES AT THE 2018 AGM

(Yellow highlighted text replaced with proposed text duplicated below with changes/additions in red text)



CONSTITUTION of The Aerosol Society

Name and Business Year

1. The Society shall be known as “The Aerosol Society”.
2. The business year is the same as the calendar year.
2. The financial year is from 1st April – 31st March.

Aims of The Aerosol Society

3.
 - a) To promote all scientific branches of aerosol research,
 - b) to promote by means of meetings and publications the spread of information on an interdisciplinary basis, and to make available a pool of expert knowledge,
 - c) to encourage international cooperation,
 - d) to recruit new members; to assist and to provide training opportunities in aerosol medicine and aerosol research
 - e) to encourage investment in and to provide, where possible, financial support for aerosol research
4. The Society will be a non-profit making body beyond the needs of administrative costs.

Membership

5. The Society has the following categories of members:
 - a) Industry
 - b) Academic
 - c) Student
 - d) Retired
 - e) Corporate
6. Ordinary membership is open to anyone with an active interest in the field of aerosol research or a related discipline.
6. Ordinary (**academic or industry**) membership is open to anyone with an active interest in the field of aerosol research or a related discipline.
7. Student membership is available to those who qualify for ordinary membership, are full time registered students and are not in receipt of a salary.
8. Retired membership is open to previous members who have since retired and will be invited to 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. They will also be entitled to concessions on advertising rates and exhibition charges.
10. Honorary membership may be conferred on those who have distinguished themselves in the field of aerosol science, e.g. by:
 - a) outstanding personal research or inventions, or
 - b) holding leading positions in prominent undertakings, or
 - c) outstanding successes in teaching.
11. Application for membership must be made through the Society Administrator. The Committee will decide on the acceptance of new members and reserve the right to refuse membership without explanation.
12. Annual membership fees will be charged at a level proposed by the Committee and agreed at the Annual General Meeting (AGM).
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.
14. Ordinary, Honorary and Student Members are entitled to vote at the general meetings and can be elected to membership of the Committee. Corporate members may also have one vote provided that they inform the Committee, in writing prior to the meeting, of the name of their representative.
14. Ordinary, Honorary, **Retired** and Student Members are entitled to vote at the general meetings and can be elected to membership of the Committee.

Corporate members may also have one vote provided that they inform the Committee, in writing prior to the meeting, of the name of their representative.

15. Voting by post is permissible on any formal motions circulated to the full membership in advance of the meeting. All such votes must be received by the General Secretary five days before the meeting.
16. Non-members will be encouraged to attend scientific meetings of the society at the discretion of the Committee.

General Meetings

17. The Annual General Meeting (AGM) is to be called once a year by the Committee, giving 56 days notice. An agenda will be provided before the meeting.
18. An Extraordinary General Meeting of members may be called by the Committee or on request by a least 20% of members eligible to vote, giving 56 days notice.
19. Where the Committee, or a member, wishes to put a formal motion to the whole membership and thus permit postal voting, the motion will be circulated to members 21 days prior to the meeting. The Committee will endeavour to circulate all suitable motions to the membership. Any member who wishes to use this procedure must submit their motion to the General Secretary 45 days prior to the meeting.
20. The General Meetings are responsible for
 - a) alterations to the constitution,
 - b) election of the Officers of the Society and other Committee Members, who will assume their duties directly following the end of the meeting,
 - c) approval of the financial accounts,
 - d) providing a forum to discuss the activities of the Committee and Society,
 - e) dissolution of the Society.
21. A quorum exists if all members eligible to vote have been invited and at least 25 of them are present. If fewer than this number are present, then a fresh meeting of members must be called (giving 56 days notice), and this will form a quorum regardless of the number of members who are eligible to vote.
21. A quorum exists if all members eligible to vote have been invited and at least 25 of them are present. If fewer than this number are present, then a fresh meeting of members must be called (giving 56 days' notice), and this will form a quorum regardless of the number of members **attending** who are eligible to vote.
22. All motions are passed by a simple majority of those voting.
23. The dissolution of the Society requires the approval of three quarters of those voting at a properly constituted General Meeting where 56 days notice of the meeting and motion for dissolution has been circulated to the membership.

The Committee

24. The Committee is responsible for:
- a) the execution of decisions taken at general meetings,
 - b) the organisation of scientific meetings, conferences, courses and exhibitions,
 - c) the maintenance of the constitution,
 - d) setting the fees for conferences and courses
 - e) proposing the level of membership fees to a General Meeting
 - f) the financial administration,
 - g) the admission and exclusion of members,
 - h) the promotion of the aims of the Society.
25. The Committee shall consist of five Officers: The President, the Deputy President, the General Secretary, the Treasurer, the Education Officer 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.
26. All members of the Committee act in an honorary capacity. The Committee may assign specific tasks to both elected and co-opted members as required.
27. Nominations for Officers and other Committee Members may be made in writing prior to a general meeting, or during the said meeting verbally. Candidates must be nominated and seconded by Society members with voting rights and with the nominee's assent. Voting will take place by secret ballot.
27. Nominations for Officers and other Committee Members may be made in writing prior to a general meeting, or during the said meeting verbally. Candidates must be nominated and seconded by Society members with voting rights and with the nominee's assent. **Decisions are made by a majority of voting members present.**
28. 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.
29. The responsibilities of the Committee members are:
- a) The President takes the chair at meetings of the committee and at the AGM. In the President's absence the meeting is chaired by the Deputy President and in their absence by the General Secretary.
 - 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.

- c) The Treasurer will manage the financial affairs of the Society, provide annually at the AGM a balance sheet of the Society's financial affairs and submit annually the accounts up to 31st December for auditing.
 - d) The Committee members will assist with the organisation of meetings, provide the final programme for distribution to all members, approve new members of the Society, liaise with other interested bodies and co-ordinate expert comments. Committee members should be available to aid the Officers of the Society.
 - f) The Education Officer is responsible for promoting young researcher training, development and engagement.
29. The responsibilities of the Committee members **include**:
- a) The President takes the chair at meetings of the committee and at the AGM. In the President's absence the meeting is chaired by the Deputy President and in their absence by the General Secretary.
 - b) The General Secretary will ensure that the Society's affairs are conducted in accordance with the constitution and promote membership of the Society **in accordance with the Society [privacy policy](#) published on the Society website www.aerosol-soc.com.**
 - c) The Treasurer will manage the financial affairs of the Society, provide annually at the AGM a balance sheet of the Society's financial affairs and submit annually the accounts up to 31st **March** for auditing.
 - d) The Committee members will assist with the organisation of meetings, provide the final programme for distribution to all members, approve new members of the Society, liaise with other interested bodies and co-ordinate expert comments. Committee members should be available to aid the Officers of the Society.
 - e) The Education Officer is responsible for promoting young researcher training, development and engagement.
30. The Committee may set up sub-committees for the performance of specific tasks. All members of the Aerosol Society are liable to be called upon to serve.
31. 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 simply solicit opinions from other Officers or Committee Members.

Auditors

32. The AGM shall appoint an Accountant to provide certified accounts of the Society.

Use of Assets and Funds

33. 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.

34. 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.
 - d) to support charities.
35. In the event of the Society being terminated any surplus funds remaining after satisfaction of debts and liabilities will be donated to a charity or other nonprofit making organisation agreed at the last general meeting of the Society.
36. Members of the Committee shall be entitled to an indemnity out of the assets and funds of the Society in respect of any liabilities incurred by them in the performance of their duties as members of the Committee.
37. The liability of the Committee (whether to members of the Society or to third parties) shall be limited to the value of the assets and funds of the Society from time to time.

MW

23rd August 2018 (incorporates all amendments from previous AGMs and EGMs)