



## **Minutes of the Aerosol Society Annual General Meeting Thursday 9<sup>th</sup> 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 9<sup>th</sup> November 2017 and it was expected that all members had been able to view and use the website [www.aerosol-soc.com](http://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 (10<sup>th</sup> 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](mailto: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](mailto: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	
	£	£	£	£
<b>Sales</b>		467,422		371,618
<b>Cost of sales</b>				
Events		334,232		275,287
<b>GROSS PROFIT</b>		133,190		96,331
<b>Other income</b>				
Deposit account interest		595		747
		133,785		97,078
<b>Expenditure</b>				
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)
<b>Finance costs</b>				
Bank charges	1,499		1,176	
Credit card	1,949		1,721	
		3,448		2,897
<b>NET LOSS</b>		(8,806)		(9,413)



**BALANCE SHEET**  
**31 DECEMBER 2016**

	Notes	31.12.16 £	£	31.12.15 £	£
<b>FIXED ASSETS</b>					
Tangible assets	2		3,081		3,993
<b>CURRENT ASSETS</b>					
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>	
<b>CURRENT LIABILITIES</b>					
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>
<b>NET ASSETS</b>			<u>285,108</u>		<u>293,914</u>
<b>FINANCED BY</b>					
<b>CAPITAL ACCOUNT</b>	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 £
<b>COST</b>				
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
<b>DEPRECIATION</b>				
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
<b>NET BOOK VALUE</b>				
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.

<b>2015</b>	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
<b>2016</b>	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
<b>2017</b>	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.