

ANNUAL GENERAL MEETING OF THE BRITISH SECTION OF THE COMBUSTION INSTITUTE

13:00, 6th September 2011 at The University of Leeds

Attended by: A.N. Hayhurst, K. Hughes, A.J. Griffiths, R. Cracknell, M. Lawes, M. Davies, J. Swithenbank, S. Navarro-Martinez, B. Williams, A. Williams, S. Balusamy, A. Franzatelli, J.S. Dennis, T.S. Farrow, S. Marshall

Professor Allan Hayhurst chaired the Annual General Meeting 2011

1. **Apologies for Absence**

Apologies were received from W. Jones, D. Smith, J. Griffiths, S. Hochgreb, P. Gray, M. Brown, G. Rein, R. Stone and S. Cant

2. **Minutes of the AGM, 15th September 2010 at the University of Cambridge**

Copies were distributed, and the minutes were signed as a correct record.

3. **Presentation of Prizes**

The Chairman, Professor Allan Hayhurst, presented certificates and cheques to the winners of the Hinshelwood, Gaydon and Sugden Prizes for 2010. The awardees were:

The Hinshelwood Prize 2010 was awarded to Dr Salvador Navarro-Martinez of Imperial College London, Lecturer at Imperial College. Dr Navarro-Martinez has been the recipient of the Sugden Prize in 2006 and 2008, an unusual honour, and the Royal Society University Research Fellowship.

The Gaydon Prize 2010 was awarded to D. Bradley, M. Lawes and M. Mansour for the paper, "Measurement of turbulent burning velocities in implosions at high pressures", published in Proceedings of the Combustion Institute 33 (1), pp. 1269-1275 (2011).

The Sugden Prize 2010 The Sugden Prize was awarded to Ben Williams, Paul Ewart, Xiaowei Wang, Richard Stone, Hongrui Ma, Harold Walmsley, Roger Cracknell, Robert Stevens, David Richardson, Huiyu Fu and Stan Wallace for their paper "Quantitative planar laser-induced fluorescence imaging of multi-component fuel/air mixing in a firing gasoline-direct-injection engine: Effects of residual exhaust gas on quantitative PLIF", published in Combustion and Flame v. 157 (2010) pp. 1866-1878

4. **Committee Membership**

5 people were nominated for the 4 available places. An election took place by the single transferable vote. In order, those elected were: Neal Morgan, Richard Stone, Guillermo Rein and Markus Kraft. Details of the voting are appended.

5. **Secretaries' Reports**

5.1 Membership

Membership numbers are stable, currently with just 2 less than the corresponding date last

year. Currently there are 24 new members and 26 non-renewals of 2010 members, who have been sent several reminders.

104 members pay by standing order, the others pay by cheque or direct internet banking payment. Assuming all outstanding standing orders are received, current membership stands at 242, with 137 full members, 74 students and 31 retired members, a detailed breakdown is as follows:

	Number	%
Academics	93	38.4
Retd. Academics	23	9.5
Students	74	30.6
non-Academics	44	18.2
Retd. Non-Academics	8	3.3
Total Academics	190	78.5
Total Others	52	21.5
Total Membership	242	

For information on membership trends, a detailed breakdown since 2000 is given in the following table.

Date	retired Others	retired Academics	Students	Others	Academics	Total
2000	20	7	30	75	87	219
2001	21	9	15	81	68	194
2002	19	10	23	60	73	185
2003	16	13	30	54	81	194
2004	9	18	34	52	80	193
2005	9	18	47	46	94	214
2006	8	22	57	45	98	230
2007	6	23	65	47	95	236
2008	6	21	72	53	97	249
2009	9	24	70	51	101	255
2010	9	25	82	47	96	259
2011*	8	23	74	44	93	242

5.2 Meetings and Travel Grants

Autumn Meeting 2010: The Autumn Meeting was held at the Engineering Department at the University of Cambridge, on the theme of “Gas Turbine Combustion: Present and Future Challenges”. The meeting was attended by 53 participants, including 15 students, and counted on co-funding from the Marie-Curie AETHER Thermoacoustics network. The poster award committee, formed by guest speakers Christoph Hirsch (Munich) and Ruud Eggels

(Rolls-Royce), selected a winning poster by Karthik Kashinath, Umesh Bhayaraju, Johannes Schmidt and Simone Hochgreb on the topic of “Effect of Cooling Liner on Combustion Instabilities”.

ECM2011: The European Combustion Meeting was held at Cardiff, organized by Tony Griffiths. The meeting registered 421 participants, which included 412 delegates, 5 key note speakers and 3 guests; 175 participants were students from 32 countries. There were 6 Sponsors and 7 Exhibitors supporting the conference. There were 408 abstracts, and 365 poster presentations. There were also two adjacent workshops organized, on chemical kinetic modeling and on flames. We congratulate Tony and his local committee for all their efforts and the excellent turnout.

Travel Grants

Travel grants of £250 were awarded to seven eligible students travelling to the ECM2011, as follows.

Name	Affiliation	Title
Kian Min Lim	University of Cambridge	Effects of Inhomogeneous Reactants on Premixed Flames
Seyed Ali Hadavi	University of Leeds	Assessing thermal stability of fuels by a simplified pyrolysis test.
Stefan Wysocki	Imperial College	Efficient Parallel Tomographic Reconstruction of Chemiluminescence in Flames (1) / Fractal-Generated Turbulence in Opposed Jet Flows (2)
Mengchen Hu	Oxford University	CH* and OH* chemiluminescence from controlled premixed combustion
Huayoung Zhao	Oxford University	Measurements and modelling of temperature in a Santoro diffusion flame burner
Ruigang Zhou	University of Cambridge	The Behaviour of Laminar Stratified Methane-Air Flames in Counterflow Configuration
Diana Hamid	University of Sheffield	Effects of H ₂ addition on the chemical kinetics and flame stability characteristics of the hydrogen-hydrocarbon mixtures

6. Treasurer’s Report

2010 Overview

The 2010 accounts were once again audited by Mike Davies and Chris Morley, to whom go many thanks.

During 2010, the accumulated funds dropped by nearly £5K nearly to stand at year-end at approximately £63K.

Normal expenses (committee secretarial, newsletter, prizes) accounted for £3110.59, which is lower than 2009 but in line with the historical trend.

Travel grants totalling £9975 were paid in 2009 to allow travel to the Beijing Symposium ; 21 recipients each received a grant of £475.

Membership subscriptions accounted for £ 6111 of income (more than 50% up from 2009 due mainly to the recent increase in fees). However investment income of £315.73 in 2010 represented a historic low. Proceeds from two well attended meetings in Cambridge yielded just over £2000.

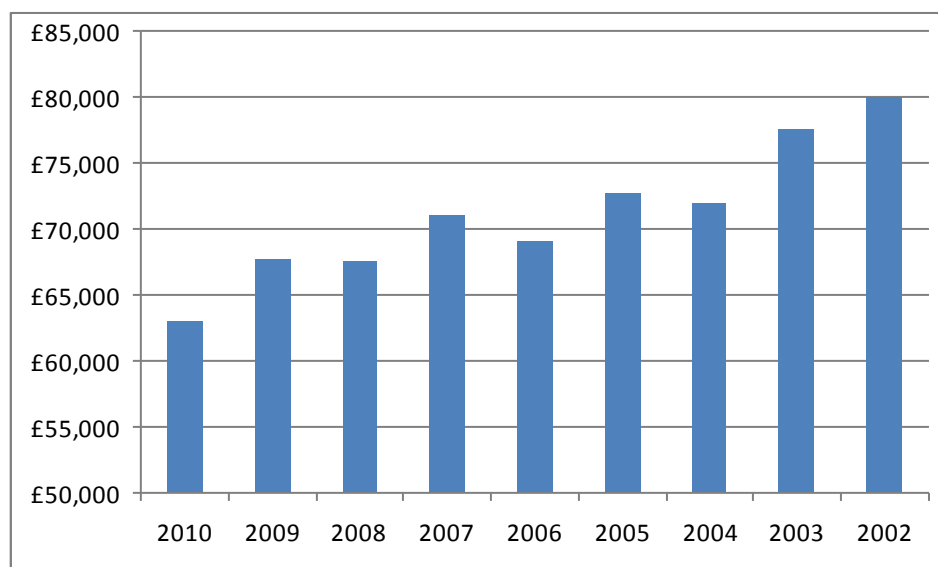
The trend over recent years has been for the funds of the section to show an oscillatory behaviour (see below) because a much higher level of travel awards are paid out in symposium years than non-symposium years. There is also an underlying pattern of our funds decreasing.

2011 Status and Outlook

The finances of the British section will have been boosted by the massive efforts of Tony Griffiths and his ECM 2011 organising team. The final financial figures have not yet been confirmed.

£1750 in travel grants were provided for British section members to attend ECM in Cardiff. Interest rates remain low and a poor investment income is expected.

Accumulated Funds 2002-2010



COMBUSTION INSTITUTE (BRITISH SECTION)

Statement of Income and Expenditure for the year ending 31 December 2010

	INCOME		EXPENDITURE	
	2009	2010		
	£	£		£
Membership subs	3856.00	6111.00	Colloquium expenses	0.00
Colloquium fees	1314.45	2040.82	Secretarial expenses	66.80
Investment income			Committee expenses	1975.26
COIF Account	774.97	315.73	Newsletter	1178.19
Lloyds (1)	75.00		Travel grants (2)	1800.00
			Prizes	1100.00
			Surplus (Deficit)	(99.83)
	=====	=====		=====
	6020.42	8467.55		6020.42
				8467.55

Subject to year to year variation because of the timing of receipts and payments at the year end.

Balance Sheet for the year ending 31 December 2010

	ASSETS		LIABILITIES	
	2009	2010		
	£	£		£
Lloyds Bank 0082488	4168.61	3269.84	Uncashed cheques(2)	0
COIF 938290001C	63566.86	59882.59	Accumulated funds	67735.47
	=====	=====		=====
	67735.47	63152.43		67735.47
				63152.43

(1) Goodwill payment in respect of problems with the current account

(2) Cheque 645 for travel grant uncashed. At year end cheque was more than 6 months old – assumed not to be a liability, and not counted in expenditure. Cheque 656 is less than 6 months old.

7. Chairman's Report

Allan expressed the appreciation of the section and thanks to Roger for his work as treasurer, Roger now finishes after spending 6 years on the committee as treasurer.

Allan also commented on the huge success of the ECM at Cardiff in terms of the attendance, contribution and its being better than all the previous European Meetings. He expressed sincere thanks to Tony and his marvellous team for their great efforts and hard work.

He mentioned Life Membership of the Section had been introduced for the over-60s. This should help with the serious under-capitalisation of the section, which really should have at least k£100 invested.

David Smith is trying to make lists of previous secretaries, treasurers, chairmen, etc. Any help will be appreciated.

Finally Allan thanked all the office- holders for all their hard work during the last year.

8. Gaydon Prize Rules

In light of changes in the organization of the symposium, Allan lead a discussion as to the wording of the Gaydon prize rules. It was suggested that the basic criterion for the Gaydon Award be that it be for a full paper which has been presented at the Symposium and also published in the Proceedings. The re-wording of the rules was left to the committee.

9. Any other business

Mike Davies raised a question on the new life membership, and whether life members would still qualify for retired rates at meetings. Allan confirmed that yes; retired rates would still be available.

Tony Griffiths expressed his appreciation for Allan regarding his help with ECM2011 especially with regard to gaining sponsorship, and also expressed specific thanks to Nigel Burdett and Roger Cracknell, both in the audience, for their contributions to ECM2011. A question was raised regarding the status of the 2016 Combustion Symposium. Allan explained that the 2016 venue would be decided next year, that the British Section had proposed Imperial College, but with the tacit understanding that it will actually go to Seoul. If we do not get awarded the 2016 symposium Allan's opinion was that we will probably get the next European location for the Symposium.

A question was raised concerning our impact on governing bodies as raised at the 2101 AGM. Allan answered that we had formed a committee to look into this chaired by Nondas Mastorakos, and that the question would be passed to Nondas.

Tony Griffiths commented on the future locations for ECM, Lund in 2013 and Budapest in 2015.

Roger Cracknell thanked Allan for his leadership and guidance of the section, Allan explained that he would be stepping down as the section Chairman shortly.

**Results of voting for membership of the Committee of The British Section of
The Combustion Institute, August 2011**

No. of valid votes cast: 29 (No. of places: 4) (Quota: 5.8)

	First Count	2 nd count after transfer of Morgan's Surplus	3 rd count after transfer of Stone's surplus	4 th count after transfer of Rein's surplus	Result
Kraft	5	5	5.52	5.98	4th elected
Morgan	9	5.80	5.80	5.80	1st elected
Rein	6	6.46	6.72	5.80	3 rd elected
Stone	5	6.83	5.80	5.80	2 nd elected
Wen	4	4.91	5.17	5.63	
	—	—	—	—	

29	29.00	29.01	29.01
—	—	—	—

S. Hochgreb

A.N. Hayhurst