



# THE COMBUSTION INSTITUTE

(British Section)

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## ANNUAL GENERAL MEETING – MINUTES - DRAFT

13.30 12<sup>th</sup> of September 2012

University of Oxford

The meeting was chaired by Prof. Bill Jones. The attendance list is attached.

### 1. Apologies for Absence

Apologies received from J. Moran, K. Hughes, N. Morgan, J. Griffiths, M. Brown, A. Hayhurst.

### 2. Minutes of the AGM, 6<sup>th</sup> September 2011 at University of Leeds

The minutes were accepted as correct.

### 3. Matters Arising

There were no matters arising.

### 4. Chairman's Report

The incoming Chairman, Prof. Bill Jones, thanked his predecessor, Prof. A. Hayhurst, for his years of service. He thanked also the outgoing newsletter editor Prof. J. Griffiths for his long service, and congratulated him on his election to the FRS. Thanks were given to the outgoing members Bryn Jones and Prof. Griffiths, and a welcome was offered to the newly elected committee members S. Cant and J. Moran.

### 5. Secretaries' Report (see Annex A)

Simone Hochgreb reported on the year's meetings, awards and elections, which were conducted electronically this year. Six members at large stood for the committee, with three being elected: S. Cant, J. Moran and Y. Hardalupas, who was reelected. The Chairman thanked all candidates for their willingness to stand for the election.

## **6. Treasurer's Report of the Accounts for 2011-2012 (Annex B)**

Roger Cracknell reported on Neil Morgan's behalf that 58 k£ have been transferred to the CIBS account corresponding to the profit of the ECM meeting in Cardiff. This means that the CIBS section is in very good health for the next few years, and should be able to pay a number of awards towards the next ECM and Symposium. The Chairman thanked Tony Griffiths for his excellent handling of both the meeting, which has been hailed as a model, as well as the finances.

## **7. Presentations of Hinshelwood and Sugden Prizes**

The Hinshelwood Prize 2011 was presented to Dr Alisdair Campbell, Lecturer at the University of Surrey. The Sugden Prize was presented to N. Swaminathan, A. Dowling and R. Balachandran (details in Annex A). G. Xu was unfortunately not able to attend the meeting. The Hinshelwood panel was headed by Bryn Jones, with assistance from Kevin Hughes. The Sugden Panel was chaired by Roger Cracknell, with assistance from Tony Griffiths, Bill Jones and Yannis Hardalupas.

## **8. Combustion Symposium Bid for 2016 – update**

The Chairman reported that the London bid to host the 2016 Symposium on Combustion was not successful, with Seoul being chosen. However, it is likely to be reconsidered for 2018 if we wish to resubmit the case at the next symposium.

## **9. Any other business**

9.1. **UK @ 34<sup>th</sup> Symposium.** Peter Lindstedt raised the issue regarding the low (18%) percentage of papers accepted by UK-based, and encouraged the committee to consider obtaining more information on the issue and see if it needs further attention.

## Annex A – Secretaries’ Report

### A.1. Technical Meetings of the CIBS

**Autumn Meeting 2011:** The Autumn Meeting was organized by Allan Williams and Kevin Hughes at Leeds University, on “Clean Coal”. The meeting featured talks by Nigel Burdett of Drax, Colin Snape from Nottingham, Jon Gibbins from Edinburgh, Gerry Hesselman of Doosan Power, John Dennis on Chemical Looping, Alessandro Pranzitelli on modeling challenges, John Oakey on Co-Firing, Allan Hayhurst on temperature measurements in side particles and Jim Swithenbank on particle emissions from biomass combustion. The meeting was attended by 40 researchers, with a significant fraction of students.

**Spring Meeting 2012:** Yannis Hardalupas organized a meeting in Spring 2012 on “Laser Diagnostics”, featuring invited talks by Doug Greenhalgh on LII, Paul Ewart on LIGS, Thomas Seeger on Raman, Frank Beyrau on laser thermometry, Simone Hochgreb on diagnostics applied to oxycoal flames, Laurent Zimmer on LIPS, Hugh MacCann on infrared absorption spectroscopy and Yannis Hardalupas on diagnostics for atomization and sprays. A Best Poster Award was given to B. Fond, C. Abram, A. Heyes, A. Kempf and F. Beyrau, of Imperial College, for the poster “Simultaneous Thermometry and Velocimetry using Phosphorescent Particles”.

#### Committee Membership and Elections

Nominations for the committee have been made, and three members have been elected by 94 valid votes. Yannis Hardalupas, Kevin Hughes and Bryn Jones’ terms are ending. The nominations were P. Bowen, S. Cant, Y. Hardalupas, J. Moran, N. Swaminathan and J. Wen. The elected candidates are: **S. Cant, Y. Hardalupas and J. Moran**. Election results are reported in the Appendix; the count via STV was audited by R. Cracknell and A. Hayhurst. The current composition of the committee meeting after the elections shall be as follows:

Name	Affiliation	Term
Prof. R. S. Cant	University of Cambridge	(2012-2015)
Prof. Y. Hardalupas	Imperial College	(2009 – 2012),( 2012 – 2015)
Prof. A N. Hayhurst	University of Cambridge	Honorary life member
Prof.S. Hochgreb	University of Cambridge	Hon. Secretary (2008-2013)
Prof. W. P. Jones	Imperial College	Chair, (2011-2016)
Prof. M. Kraft	University of Cambridge	(2011-2014)
Prof. R. P. Lindstedt		Director, Combustion Institute (co-opted)
Prof. E. Mastorakos	University of Cambridge	Associate Editor of C&F (co-opted)
Mr. J. Moran	Rolls-Royce plc	(2012-2015)
Dr. N. Morgan	Shell Global Solutions	(2011-2014)
Dr G. Rein	Imperial College	Web Master and newsletter editor (2008-2011), (2011-2014)
Prof. R. Stone	University of Oxford	(2008-2011), (2011-2014)

### A.2. Awards

#### Hinshelwood Prize 2011

The Hinshelwood Prize 2011 has been awarded to Dr Alisdair Campbell, Lecturer at the University of Surrey. Campbell has been singled out for his original thinking, independent research and for bringing unique mathematical methods to previously intractable problems in chemical engineering in the area of natural convection and kinetics.

### **Sugden Prize 2011**

The Sugden Prize has been awarded to N. Swaminathan, G. Xu, A. Dowling and R. Balachandran on "Heat release rate correlation and combustion noise in premixed flames", published in the *Journal of Fluid Mechanics* (2011), vol. 681, pp. 80-115.

### **Travel Grants**

Travel grants of £250 were awarded to 15 eligible members travelling to the Combustion Symposium in Warsaw, as follows.

<b>Name</b>	<b>Affiliation</b>	<b>Status</b>
Alison Tomlin	University of Leeds	member
Derek Bradley	University of Leeds	member
Jun Xia	Brunel University	member
Kai Luo	University of Southampton	member
Nicholas Worth	University of Cambridge	member
Nilanjan Chakraborty	Newcastle University	member
Bill Jones	Imperial College London	member
Ranga Dinesh*	Lancaster University	member
Stewart Cant	University of Cambridge	member
Thomas Dunstan	Cambridge	member
Dongping Chen*	University of Cambridge	student
Fabrizio Cavallo Marincola	Imperial College London	student
Huangwei Zhang	University of Cambridge	student
Michalis Hadjipanayis	Imperial College London	student

\* declined, due to visa delays

### **A.3. Membership Secretary's Report 2012**

Assuming all outstanding standing orders are paid, currently there are 231 members, a slight drop compared to the 242 members at the corresponding point last year. A detailed breakdown is as follows:

	<b>Number</b>	<b>Change since 2011 AGM</b>
Academics	92	-1
Retd. Academics	19	-4
Students	71	-3
non-Academics	41	-3
Retd. Non-Academics	8	0
Total Academics	182	-8
Total Others	49	-3
Total Membership	<b>231</b>	

111 members pay by standing order, the others pay by cheque or direct internet banking payment. Currently there are 30 members from 2011 who have yet to respond to renewal requests (6 so far).

For longer term information on membership trends, a detailed breakdown since 2000 is given in the following table. From past experience, I project that the end of year total will be about 235.

Date	retired Other s	retired Academic s	Student s	Others	Academic s	<b>Total</b>
<b>2000</b>	20	7	30	75	87	<b>219</b>
<b>2001</b>	21	9	15	81	68	<b>194</b>
<b>2002</b>	19	10	23	60	73	<b>185</b>
<b>2003</b>	16	13	30	54	81	<b>194</b>
<b>2004</b>	9	18	34	52	80	<b>193</b>
<b>2005</b>	9	18	47	46	94	<b>214</b>
<b>2006</b>	8	22	57	45	98	<b>230</b>
<b>2007</b>	6	23	65	47	95	<b>236</b>
<b>2008</b>	6	21	72	53	97	<b>249</b>
<b>2009</b>	9	24	70	51	101	<b>255</b>
<b>2010</b>	9	25	82	47	96	<b>259</b>
<b>2011</b>	8	23	78	43	94	<b>246</b>
<b>2012</b>						
*	8	19	71	41	92	<b>231</b>

\* - As of 5/9/12

## Annex B – Treasurer’s report

### B.1. 2011 Overview

The 2011 accounts were once again audited by Mike Davies and Chris Morley, to whom we offer many thanks.

During 2011, the accumulated funds rose by nearly £14,000 to stand at year-end at approximately £77,000.

Normal expenses (committee secretarial, newsletter, prizes) accounted for £3013.96, which is almost identical to 2010.

Travel grants totalling £1,750 were paid in 2011 to allow travel to the European Combustion Symposium - 7 recipients each received a grant of £250.

Membership subscriptions accounted for £5,746 of income (down 6% from 2010 but still up considerably from 2009). Investment income of £427.03 in 2010 was disappointing but was indicative of the low interest rates available this year. Proceeds from the ECM and the Clean-Coal meeting in Cardiff yielded over £58,000, the bulk of which will greatly strengthen the 2012 accounts. A great amount of thanks are due to Tony Griffiths and his team for their excellent organisation of these meetings.

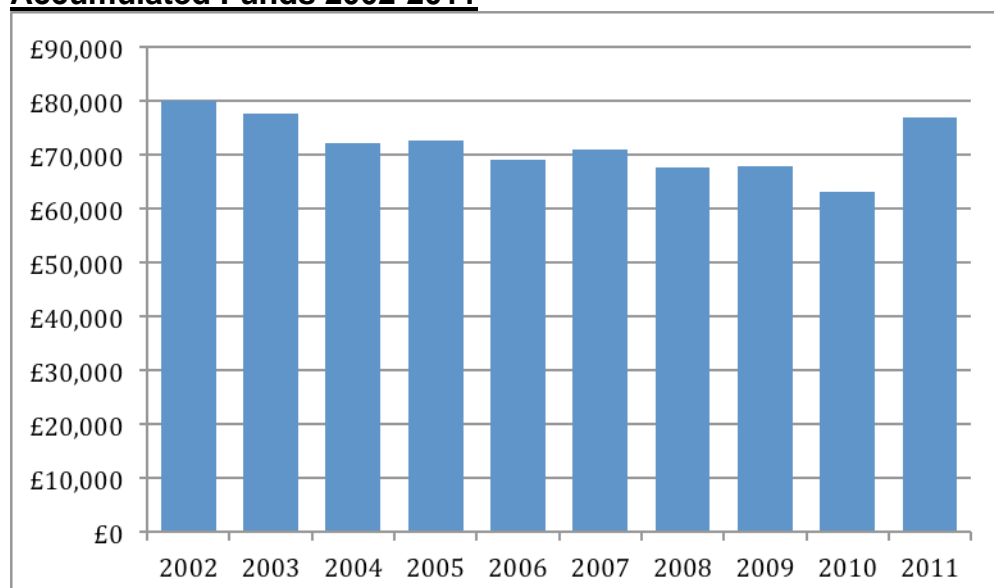
The overall trend of the Accumulated funds for the CIBS is shown below.

### B.2. 2012 Status and Outlook

The finances of the British section have already been boosted by the massive efforts of the ECM 2011 organising team,

For next year, £3500 in travel grants are being provided were provided for British section members to attend the International Symposium on Combustion in Warsaw. Interest rates still remain low and a poor investment income is expected.

#### Accumulated Funds 2002-2011



## COMBUSTION INSTITUTE (BRITISH SECTION)

### Statement of Income and Expenditure for the year ending 31 December 2011

	INCOME			EXPENDITURE	
	2010 £	2011 £		2010 £	2011 £
Membership subs	6111.00	5746.00	Colloquium expenses	0.00	0.00
Colloquium fees	2040.82	11820.00	Secretarial expenses	0.00	83.57
Investment income			Committee expenses	1303.38	1516.83
COIF Account	315.73	427.03	Newsletter	1007.21	561.05
			Travel grants	9975.00	1750.00
			Prizes	800.00	900.00
			Surplus (Deficit)	(4618.04	13181.58
			)		
	=====	=====		=====	=====
	8467.55	17993.03		8467.55	17993.03

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 2011

	ASSETS			LIABILITIES	
	2010 £	2011 £		2010 £	2011 £
Lloyds Bank 0082488	3269.84	16507.39	Uncashed cheques(1)	50.00	0.00
COIF 938290001C	59882.59	60309.62	Accumulated funds	63102.4	76817.01
			3		
	=====	=====		=====	=====
	63152.43	76817.01		63152.4	76817.01
			3		

(1) Cheque 645 for travel grant un-cashed. 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.