

## **Honorary Secretary's Review of 2010**

The Society continued to face the many external challenges of 2010 with fortitude and good humour. This is largely due to our excellent staff and the strong body of skilled volunteers who fill the operational and oversight posts proscribed by the Society's constitution. We said farewell to our outgoing President Margaret West and welcomed a new President in Brian McMillan of Allied Glass. Finance continued to be at the top of our agenda during the year and the Honorary Treasurer continued his sterling work on our behalf. His report should be read in the context of the current economic climate.

The Society arranged our usual two conferences in 2010. The popular one-day meeting Furnace Solutions was at CERAM, Stoke-on-Trent in June for the fifth in its series and was oversubscribed with delegates. The Melting Technical Committee continued its sterling work in delivering an excellent forum for learning, discussion and networking.

Cambridge 2010 had a strong technical programme and this was reflected in an increased attendance and positive feedback from delegates. The growth in overseas delegates was pleasing but we still did not attract as many members and delegates from UK industry as we would have liked. The Conference staff did another superb job this year as many of you who met them face to face at our events will have seen. The application of their skills and understanding in helping our member's, delegates and visitors are a credit to the Society.

The currently active technical committees met regularly throughout 2010, continuing their internationally recognised work. You will find a review of their achievements and successes by their respective Chairmen later in this annual report. These committees also contribute directly and indirectly to the Society's finances through their conference, monograph and CRM activities.

Editorial Manager, our new web based submission and review system continued to prove its worth during the year with a strong surge in submissions and a reduction in lead times from submission to publication. It is well regarded by authors and referees. The Society is giving its members, contributors, reviewers and customers a much improved journal publishing service. The Managing Editor and Assistant Editor are to be congratulated on a job well done.

In reading the list of members and fellows who died this year you will no doubt be saddened by the loss of those you knew or had heard about. It is impossible for every member to know every other member but any loss is keenly felt by the Society and we send our sincere condolences to the families left behind.

During 2010 the Society had to formally agree to the closing of the Scottish Section (as reported last year) and the London Section, who felt, with their reducing member base and large geographical area, the Section was unsustainable. The Officers and the Society are indebted to those members of the two sections who have served and maintained them over the years since they were created (Scottish 1953 and London 1929) and our special thanks go to those more recently who have facilitated the orderly closure.

Our office staff does a sterling job of keeping the Society running on a day to day basis and implementing Steering Committee or Council decisions. They are the main customer interface of the Society and discharge this duty with dedication, skill and humour. During 2010 Lisa Fearn, among her other duties, took over responsibility for the SGT Library.

## **Honorary Treasurer's financial review**

For the year to 31<sup>st</sup> December 2010 the Society has recorded a significant reduction in its operating losses. The accounts for 2010 show a gain in the book value of the Society from £221,513 last year to £234,080 this year, a gain of £12,567. The operating loss was much reduced, down to £3,741 from a level of approx £25,000 in each of the preceding two years. The Investment portfolio value at 31<sup>st</sup> December recorded a gain of over £16,000 over the year. Further steps have been taken to significantly reduce the costs of our accommodation by relocating to an office section within the British Glass Building in Chapeltown, Sheffield. The benefits for this year will be reduced because we have the first quarter costs at Twelve O'Clock Court to pay plus the inevitable cost of relocation, however we will still see a cost reduction this year and 2012 will see a saving of well over £12,000 pa which will continue into the future. As before the Staff fully recognised the need for this move and cooperated to make the whole operation as seamless as possible.

During 2010 The Staff had agreed to a temporary cessation of payments into the Staff Pension Scheme. This arrangement has had to be continued into 2011 and we should record our thanks to the Staff for their forbearance in this matter. Hopefully the additional cost saving measures already implemented will mean that we will be able to at least partially relax this situation towards the end of this year but of course any such decision will have to be underwritten by an improvement in the Societies financial situation. Overall Income to the Society during 2010 slightly exceeded budget but this was negated by a slight increase

in overall operating costs (which has already been addressed with the changes to accommodation).

The performance of the investments improved this year in that some growth in value has been achieved in concert with a Stock Market recovery. Overall the investments showed some recovery and this gain was retained because the improved operating performance meant that no withdrawals from investments needed to be made during the year. This is to be compared with last year when £30,000 was withdrawn..

2011 will see again see two major meetings, Furnace Solutions 6 to be held at Ceram, Stoke on Trent in June, and the Annual Meeting to be held in conjunction with the International Conference on the Chemistry of Glasses and Glass Forming Melts In Celebration of the 300<sup>th</sup> Anniversary of the Birth of Mikhaail Vasilievich Lomonosov. The Conference is to be held in Oxford early September and promises a significant audience. Publicity for this meeting has been extensive..

In summary 2010 has as predicted been a year building toward financial recovery and this achievement is now being supported by further steps to achieve a continuing improvement in our operating position. The continued dedication and work of the team based in Sheffield, remains undiminished. Individual efforts of many of our members continue to keep the Society pushing forward. We have to expect that the overall financial conditions prevalent in 2011 will not aid the Society in any way, but our team will continue to seek further opportunities wherever they may arise.

R.K.Duly, April 2011

### **ELECTION OF OFFICERS**

Mr Brian McMillan was elected as President at the Annual General Meeting. Mr J Henderson was re-elected as Honorary Secretary. Mr R K Duly was re-elected as Honorary Treasurer.

### **ELECTION TO FELLOWSHIP**

The following members were elected to Fellowship of the Society:

Neil Simpson  
Dr Esref Aydin  
George Calas  
Dr Bruce Aitken  
Stuart Jamieson

### **ELECTION TO FELLOW EMERITUS**

Mr Ray Duly

### **ELECTIONS TO HONORARY FELLOWSHIP**

Adrian Wright

### **ELECTIONS TO COUNCIL**

Lee Rumford and Alex Hannon were elected to Council and Russell Hand and Alan Croxall were elected as Vice Presidents for the years 2010-2013

### **DEATHS**

It is with great regret that Council has to announce the deaths of the following Members, Fellows and Honorary Fellows during 2010

Mr N Jackson FSGT  
Mr A Ellis

### **PUBLICATIONS**

Parts A and B of the *European Journal of Glass Science and Technology* appeared six times in 2010 with more time brought back and better scheduling. The on-line peer review system is fully working and the regional editors have worked hard to get the submissions quickly through to a decision.

The supply of papers to both journals in 2010 was reasonably healthy. Along with regular submissions papers from ESG 2010 and the final Borate2008 conference papers all appeared. The same rigorous peer review is applied to all submissions to maintain high quality.

In 2010 Dr Russell Hand continued as the senior editor of *Glass Technology*; *European Journal of Glass Science and Technology Part A*. In 2011, Dr Hand will be senior editor of *Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B*.

In addition there are the regional editors: Dr Ulrich Roger (Germany), Dr Bo Jonson (Sweden), Professor Rene Vacher (France), Professor Alicia Duran (Spain), Dr Alex Hannon (UK), Professor Marek Liska (Slovak Republic), Professor Srinivasa Buddhudu, Professor L. Wondraczek (Germany), Professor Adrian Wright (UK), Professor John Parker (UK) and Professor Yuanzheng Yue (Denmark).

Miss Sara Lindley has overseen the Editorial Manager online submission and peer review system.

Professor John Parker continued to contribute to the wealth of information in the Society's publications in his role as abstracts and book reviews editor. Abstracts covering a wide range of journals, books and conferences for these important sections of both journals. Abstract numbers and pages published were up on 2008 in both journals.

The Society Librarian, Miss Lisa Fearn, has prepared the abstracts for publication and monitored journals received by the Society for the Applied Science Library of the University of Sheffield.

Mr David Moore, managing editor, makes up the editorial staff at the Society.

The Society's presence on the World Wide Web, [www.sgt.org](http://www.sgt.org), has benefited from the skills of Mrs Christine Brown and by Lisa Fearn. Much of the site is now managed directly by the SGT office. Each Section and Technical Committee has its own mini site. Mrs Brown has ensured the site meets all regulations on security and safe use of customer financial data.

Members and journal subscribers can access the peer reviewed papers on the internet through Ingenta. This helps the Society offer a more flexible subscription for students and our more distant subscribers.

There were no new books published in 2010, Professor Michael Cable is nearing completion of a translation of a major German book, due to be published in 2011.

The scanning of the journals archive back to the first volume of the *Journal of the Society of Glass Technology* is now complete. This will be developed over the year as a resource for members and as an income source from non-members.

David Moore

## FRANK WOOD/ST GEORGE'S LIBRARY

2010 proved no different and seem popular for photocopying articles, however this tailed off at the end of the year. Requests continue to be primarily via the internet or phone rather than visitors to the library. However a major barrier for the Society at the moment is lack of formal access. This includes access to the internet, e-resources and even the lending of books and journals. The library stock list of books and periodicals can be accessed on the Internet at <http://library.shef.ac.uk>. The librarian can be contacted by email at [Lisa@glass.demon.co.uk](mailto:Lisa@glass.demon.co.uk)

## RESIDENTIAL DISTRIBUTION OF SOCIETY

### MEMBERS ON 31 DECEMBER 2010

Section	Honorary Fellow	Fellow Emeritus	Fellow	Corporate Member	Member	2010(2009)
London	4	1	7	1	28	41
Midlands	0	1	4	0	10	15
North East	0	2	2	0	3	7
North West	0	0	5	1	12	18
Scotland	1	0	2	0	5	8
Yorkshire	4	2	22	5	49	82
<i>British Total</i>	<i>9</i>	<i>6</i>	<i>42</i>	<i>7</i>	<i>107</i>	<i>171(165)</i>
Africa	0	0	0	0	3	3
Asia (except India & Japan)	0	0	1	1	15	17
Australia and New Zealand	0	0	1	0	6	7
Central & South America	0	0	1	0	2	3
Europe	2	0	5	3	36	46
India	0	0	1	1	6	8
Japan	0	0	0	0	13	13
USA & Canada	1	0	15	1	29	46
<i>Overseas Total</i>	<i>3</i>	<i>0</i>	<i>24</i>	<i>6</i>	<i>110</i>	<i>143</i>
London	4	1	7	1	28	41
<b>TOTALS</b>	<b>12</b>	<b>6</b>	<b>66</b>	<b>13</b>	<b>217</b>	<b>314(298)</b>

## REPORTS FROM THE TECHNICAL COMMITTEES

### Analysis and Properties Committee - 2010 Annual Report Contribution

2010 highlights include:

- *Completion of work package associated with the generation of new certified reference materials (CRM's) in association with The Bureau of Analysed Samples Ltd (BAS). These include a new sand standard to replace exhausted stock and the generation of a new soda ash standard for environmental compliance purposes.*
- *Work has also commenced on the production of a new, high purity silica CRM and agreement to progress a new, low iron float glass standard has also been initiated.*
- *After months of inertia, contact with BSI has been re-established and following a recent re-submission to the Secretariat the outlook for permission to re-write / re-work BS3108 covering the sampling and analysis of limestone and dolomite materials for glass-making applications is looking more favourable.*
- *SGT A+P Committee continues to receive very significant International support from ICG TC02 committee members both in terms of contribution to our round robin / proficiency testing schemes / CRM production but also in Journal submissions – with four articles being published by TC02 sponsored organisations in 2010.*

The Committee met four times over the course of 2010, three meetings being held at the SGT Offices and one at GTS.

Progress in some areas has been slow over the past year. This has largely been due to the economic situation which has delayed some CRM activities, notably the provision of sufficient low iron float glass for CRM production.

Progress with BSI has been similarly "demanding". Re-organisation at BSI has adversely affected our usual contact base, but latterly new contacts have been established and through more open discussion the possibility of extending the current BS3108 standard to include both limestone and dolomite sampling and analysis for glass-making applications is looking more hopeful. Further feedback from BSI is expected in early 2011.

*Note: Should BSI reject this latest application, the Committee has informed the Standards Organisation of our intention to formerly request the removal of the current 1980 Standard and to generate our own "industry best-practice" document for publication within the Society Journal.*

The committee has also been heavily involved in progressing our understanding of a perceived method dependency observed in the analysis of some low iron raw material systems. No firm conclusion has been reached, but preliminary feedback from studies undertaken in association with TC02 suggests a marked effect on measured response for some matrices based upon slight differences in specimen preparation. As these effects are not consistent for all low iron materials the conclusion is there is at least some partial evidence to support the hypothesis there is a fundamental difference in the "form" in which the iron is present for some low iron systems.

S N Jamieson January 2011.

### Basic Science and Technology Committee

No report available

### Melting Technical Committee, Annual Report 2010

The committee continued to remain very active with the focus of the Furnace Solutions (5) Conference held in June. Despite the global financial situation there were 95 attendees (100% attendance); 30% from overseas; 12 papers were given.

The MTC feel that although we have a programme of around 10 papers (confirmed) for this year; cost cutting measures imposed within companies will materialise and attendance may drop

The informal gathering the night before has also gained momentum with an increasing attendance; this event helps define the "difference" of the Furnace Solutions Conference; the informal nature is definitely an attraction.

Although John Osborn put together an excellent programme for the annual meeting, it was not well attended with around 20 people; and the MTC now feel that the technology session cannot be sustained.

The committee met 4 times in 2010; attendance has reduced to the few core members which although is appropriate to the tasks at hand it is not sustainable for the future. The committee membership has been affected by retirements, professional career changes and sadly the loss of those who are no longer with

us. Consequently a recruitment drive is ongoing in conjunction with ensuring that as many people as possible on the current committee membership attend.

The committee is looking to the future of Glass Making in the UK and the role of the SGT. We feel that the technological members would look to the MTC committee for training and development of personnel and in particular encouraging those starting their careers.

To achieve this we are looking to revise and issue the IGDS (Glass Module) information and introduce a training day; perhaps alongside Furnace Solutions.

The feedback in regard to a training day has been poor, however we will ask the glass community once again whether this is required.

In regard to the IGDS information, this has been collated and headings for the various topics established; a programme of work will be set, hopefully everyone on the committee can contribute and it is hoped that this will attract the absent members of the committee.

The early career award has evolved into a "Best Speaker/Presentation" award to be presented at Furnace Solutions. The award will be in memory of Mike Garvey and Guardian Industries have expressed interest in sponsoring it.

As Chairman of the MTC and now Senior Vice Chairman of the IRE, I intend to introduce Glass Making Refractories into the IRE training programme and thereby raise awareness of the SGT and membership benefits.

Chris Windle  
Chairman  
MTC Committee

### Yorkshire Section

Yorkshire Section programme during 2010. 26<sup>th</sup> February ten-pin bowling at Rotherham Superbowl, twelve teams of four competed. Mr Marc Brew presented the Sports Trophy to the SGT team. IS Maintenance 'A' Team team were runners-up. 20<sup>th</sup> May AGM in conjunction with the SGT AGM and was held at Allied Glass with a Royal Armouries tour provided afterwards. A Visit to Beatson Clark held on the 25<sup>th</sup> May which attracted 20 visitors, a quiz night at Rockware Social Club was held on 22<sup>nd</sup> April 6 teams took part and SGT B Team took the trophy. 3<sup>rd</sup> December the Annual Dinner Dance was held at Oulton Hall Leeds, 245 people were present. Glass vases were given to the ladies.

### North East Section

During 2010 the North East Section has been largely dormant. No AGM was held because a number of our members have died and three others have been in poor health, thus we would not have been quorate.

During the year efforts were made to hold joint meetings with The Institutes of Energy and Mechanical Engineering but these once again failed to materialise.

Due to a combination of logistics and poor weather we did not hold a Christmas Social in 2010

Three of our members remain active on the Society's committees and council.

Our bank balance remains healthy and we have every intention resuscitating the Section in 2011.

### **Analysis of Journal Contents by number of pages (and number of particular item)**

	2010	2009
<b>Glass Technology</b>		
Proceedings/Features	0(0)	0(0)
News from the marketplace	24	15
Conference Diary	12	12
Papers	223(32)	298(53)
Communications	0	1
Letters		
Book Reviews	0	0
Abstracts	40 (500)	48(580)
Index	4	4
SGT News	0	0
Obituaries	0	4
<b>Physics and Chemistry of Glasses</b>		
Papers	318(38)	298(40)
Conference Diary	11	4
Book Reviews		0
Abstracts	78(617)	66(540)
Index	8	8
Communications	1	0
Editorial	0	0
SGT News	0	0
<b>Journal Sales</b>		
Glass Technology	214	196
Physics & Chemistry of Glasses	237	205

### Monograph Sales

	2010	2009
Monograph Sales		
Glass Furnaces Design, Construction & Operation	14	7
Coloured Glasses	30	21
Stones and Cords in Glass	9	7
ESG Proceedings (Fundamentals of the Glass Manufacturing Process)	4	2
Topical Issues in Glass, Volume 1	0	1
Refractories in the Glass Industry	14	11
Raw Materials for Glass Melting	12	7
Topical Issues in Glass, volume 2	0	2
Basic Optical Stress Measurement in glasses	6	9
Topical Issues in Glass, Volume 3	0	0
Ceramics and Glass: A Basic Technology - Hardback	1	1
Ceramics and Glass: A Basic Technology - Paperback	8	15
The Window Glass Makers of Saint Helens	2	6
Practising Stained Glass Safely	5	1
Borates Proceedings 2	1	2
Borates Proceedings 3	0	0
The Art of Glass	2	10
Bosc D'Antic Book on Glass Making	0	2
Glass Blowing	2	1
Old English Glass Houses	4	3
Early 19th Century Glass Technology in Austria & Germany	0	4
Fundamentals of Inorganic glasses	77	60
Glass to Meal Seals	4	22
Bontemps on glass making	5	9

# List of Officers, Council, Administrative, Technical and Section Committees for the year 2010

## PRESIDENT

Mr Brian McMillan

## PRESIDENT DESIGNATE

## HONORARY SECRETARY

J. Henderson FSGT, MIM, CSci

## HONORARY TREASURER

R.K. Duly AIWM, FSGT

## VICE PRESIDENTS

A. Croxall FSGT  
M. Holden  
R Hand  
J. Osborn MSc Tech FSGT  
C Windle FSGT

## COUNCILLORS

M. C. Brew BSc FSGT  
W L Brookes BSc MSc CEng Eurlng MInstE MInstMgt FSGT  
D. Crozier BSc PhD FSGT  
G. Evans FSGT  
R. J. Hand MA PhD, FSGT  
A. Hannon FSGT  
P. Wren Howard BA FSGT  
S. Jamieson  
N. Johnson MEng PhD (nee Marriott)  
I. D. Robertson  
L. Rumford  
G. Simpson BA FSGT  
A. Stephens  
and the Chairmen of the Board of Fellows, Technical Committees and Local Section Executive Committees ex officio.

## PAST PRESIDENTS

H M West  
D. Martlew BSc MSc PhD MRSC FIM CChem FSGT  
J. M. Parker  
A. C. Wright BSc, PhD, PGCE DSc, FSGT  
J. Henderson

## MANAGING EDITOR

D. Moore BSc (Eng)

## EDITOR "GLASS TECHNOLOGY"

*European Journal of Glass Science & Technology Part A*

R. J. Hand

## ABSTRACTS EDITOR

J. M. Parker

## ADMINISTRATION STAFF

C. Brown  
S. Lindley  
L. Fearn

## AUDITORS

Holmes Widlake, Sheffield

## BOARD OF FELLOWS

R Almeida  
M. Brew (Recorder) FSGT  
W. L. Brookes  
D. Crozier FSGT  
S. Feller PhD, Sc.M FSGT  
A. Hannon FSGT  
D. Martlew (chairman)  
B. McMillan MSc FSGT  
J. M. Parker  
R. Penlington  
K. Richardson FSGT  
A. K. Varsheya BSc BSc Tech PhD MS FSGT  
N Vedishcheva FSGT  
P. Watkins BSc, MSc, PhD FSGT  
H M West FSGT  
C. Windle FSGT  
A.C. Wright FSGT  
E. Zanotto BSc MSc PhD FSGT  
and the President of the Society ex officio

## INDIAN SECTION COMMITTEE

C. K. Somany (Chairman)  
J. Mukerji (Hon. Sec.)  
N. Sood-Biswas (Hon. Treas.)  
C. Ganguly  
S. K. Gupta  
V. C. Jhosi  
Sushil Jhunjhunwala  
Sajjan Jhunjhunwala  
B. L. Kheruka  
H. S. Maity  
A. Modi  
A. K. Roy  
P. N. Roy

## NORTH AMERICAN SECTION

S. Feller (Secretary)  
K. Richardson (Chairman)

## LONDON SECTION (disbanded AGM May 2010)

M Holden (Chairman)  
N Cass (Treasurer)  
A Stephens (Secretary)  
L Homer  
T Harper

## NORTH EAST SECTION

C. Bray  
W. L. Brookes (Secretary)  
B. Clark  
D. S. Crozier  
K. Dostal  
R. Penlington (Chairman)  
N. C. Savage

## YORKSHIRE SECTION

A Lawrence  
A. Croxall  
L. Rumford  
C. Brown  
A. Lawrence  
S. Holmes (temp Chairman)  
N. Johnson  
I. D. Robertson  
R. M. Sales (Secretary)  
R. Swift  
M. Flower  
D. Dalton  
W. Cooke  
M. Brew

## STEERING COMMITTEE

P. Bingham  
W.L. Brookes  
R. K. Duly  
R. J. Hand  
A. C. Hannon  
J. Henderson  
D. Martlew  
B. W. McMillan  
D. Moore  
J R Osborn  
J. M. Parker  
R. Penlington  
H. M. West  
R Winter  
A. C. Wright

## **ANALYSIS & PROPERTIES COMMITTEE**

I. Anderson  
M. Flower  
S. Jamieson (Chairman)  
S. Jones  
J. Marley  
N.J. Johnson (nee Marriot)  
H M West

J. Mayher  
P. McClusky  
T. Moran  
J. A. Reynolds  
R. M. Sales  
R. Schwartz

## **BASIC SCIENCE & TECHNOLOGY COMMITTEE**

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Aldo Boccaccini  
Vanessa Cutler  
Ian W Donald  
Russell Hand  
David Hollis  
Animesh Jha

Jonathan Knowles  
Bob Newport  
M O'Donnell  
John Parker  
Margaret West  
Rudolf Winter  
Adrian Wright

## **MELTING TECHNOLOGY COMMITTEE**

Mr K Albutt  
Mr M Demmon  
Mr G Evans  
Mr M Horsfield  
Mr D Lieberman  
Dr N J Johnson Mr M Marshall  
Mr PM Myers  
Mr J Naughton  
Mr J R Osborn  
Mr J A Reynolds  
Mr D Senior  
Mr I L Shoveller  
Mr N Simpson  
Mr J Theron  
Mr A Thiede  
Mr A Varney  
Mr P R West  
Mr I R Whittaker  
Mr S Williams  
Mr C Windle