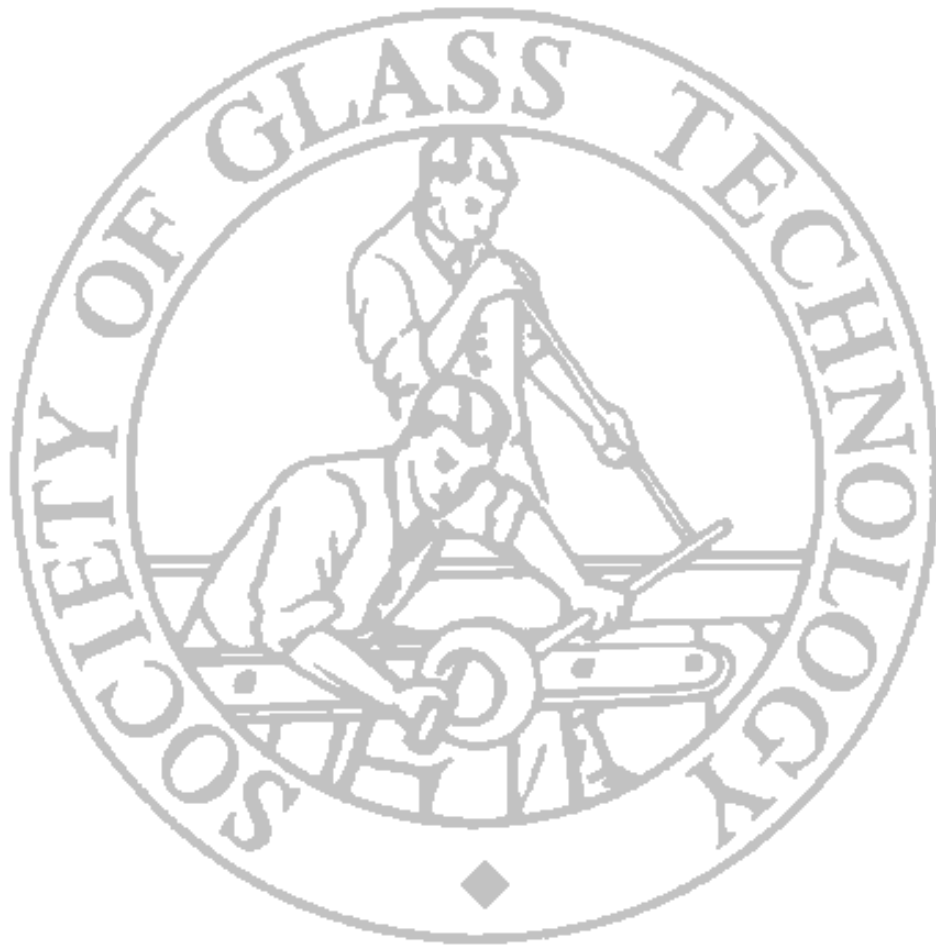


Society of Glass Technology

Annual Report and Accounts for the year ending 31 Dec. 2011



Honorary Secretary's Review of 2011

The biggest strategic impact on the Society in 2011 was the move to new premises. We completed the move during February to new offices at 9 Churchill Way, Chapeltown, Sheffield. This also happens to be the headquarters for British Glass and along with a fair deal on rent it is believed that there is an element of synergy between the organisations that might be exploited in the fullness of time. We must record our thanks to the staff who organised the move with their usual efficiency and the small army of volunteers who assisted with many of the tasks that would normally have had to be paid for.

The Furnace Solutions 6 meeting held in June at Ceram in Stoke-on-Trent was very successful again and continues to draw significant attendance. The Melting Technical Committee continued its sterling work in delivering an excellent forum for learning, discussion and networking. Preparations for FS7 in 2012 are well advanced.

The Society hosted a large international meeting in 2011 which was initiated and organised by the SGT and its members. The Meeting took place at Lady Margaret Hall University of Oxford and was dedicated to the 300th anniversary of the birth of Mikhail Vasilievich Lomonosov a great Russian scholar who is considered by many to be the father of glass chemistry and scientific glassmaking. The meeting was a considerable success on all levels which brought the Society much praise and a financial surplus.

The currently active technical committees met regularly throughout 2011, 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 conferences, monographs and CRM activities.

The Society's journals were published throughout the year with almost all editions arriving with members and subscribers within the cover month. The Journals continue to be well regarded but we are not resting on our laurels and the work to improve the reader experience continues unabated. Several new publications were in the pipeline during the year and these should be published in 2012. The Managing, Assistant and Journal Editors are to be congratulated on another good year.

It is usual for this report to mention those of our number who have died during the year without being specific. We, of course, mourn their passing and offer our condolences to their families. I must mention, however, as this report was being compiled we found out about the untimely loss of our Honorary Treasurer Ray Duly. Ray had done so much to stabilise the finances of the Society that his wise council will be sorely missed. His claim to be only a 'score keeper' is a measure of his modest regard for his undoubted talents.

During 2011 Steering Committee and Council have considered many questions relating to the future of the Society. With the accommodation problem sorted the focus turned to income generation and this will be a recurrent theme for the next few years. We have already started forward planning for the celebrations associated with the centenary of the Department at Sheffield University in 2015 and our own centenary in 2016.

The Society of Glass Technology remains an independent learned society dedicated to our Objects and Constitution. We hope that the continuing work of the various committees and volunteer members will keep us in good health well past our Centenary in 2016.

Financial review

Mr R K Duly, Honorary Treasurer of the Society of Glass Technology passed away in February 2012. It is with very great sadness and a deep sense of loss that we write this report in his stead.

For the year to 31st December 2011 the Society has recorded a significant reduction in its operating losses. The accounts for 2011 show a fall in the book value of the Society from £221,513 last year to £188,994. The operating loss was somewhat of a disappointment since we had budgeted for a break even figure this year. However some non recurring costs are included associated with the move from Twelve O'clock Court to 9 Churchill Way. The steps taken to reduce the costs of our accommodation by relocating have been successful and we should see some significant benefits in the next full year. The Staff managed the move with their customary skill and are now fully settled in the new offices.

The arrangement for the temporary cessation of payments into the Staff Pension Scheme has had to continue throughout 2011 and will also run through 2012. We continue to be grateful 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 2011 exceeded budget due to the excellent performance of our meetings. However, this was negated by a slight increase in overall operating costs.

The actual cash generated by our investments improved this year ending up above budget despite the vagaries of the Stock Market. It is pleasing to note that this is the second year in a row that we have not had to make withdrawals from investments to support cash flow.

Our two major meetings during the year, Furnace Solutions 6 and the Lomonosov Conference produced outstanding results for the Society. We owe a huge vote of thanks to the respective organizing committees and the staff who made them such a success.

2010 was a year building toward financial recovery and this achievement is now being supported by the work done in 2011. The continued dedication and work of the team based in Sheffield, remains undiminished. The 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 2012 will not aid the Society in any way, but our team will continue to seek further opportunities wherever they may arise.

J Henderson & B McMillan, March 2012

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. Mr R K Duly was elected as President Designate.

ELECTION TO FELLOWSHIP

The following members were elected to Fellowship of the Society:

Dr Bruce Aitken
Stuart Jamieson

ELECTION TO FELLOW EMERITUS

None

ELECTIONS TO HONORARY FELLOWSHIP

None

ELECTIONS TO COUNCIL

Adrian Wright, Neil Simpson, and Simon Holmes were elected to Council and Bill Brookes was elected as Vice President for the years 2011-2014

DEATHS

Council has no deaths to announcement during 2011

PUBLICATIONS

Parts A and B of the *European Journal of Glass Science and Technology* appeared six times in 2011 with the issues appearing in the cover month. 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 2011 was reasonably healthy, although it reduced towards the end of the year and in the first issue of 2012. The same rigorous peer review is applied to all submissions to maintain high quality.

In 2011 Dr Russell Hand was the senior editor of the *European Journal of Glass Science and Technology* overseeing both *Physics and Chemistry of Glasses Part B* and *Glass Technology Part A*.

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.

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, has benefited from the skills of Mrs Christine Brown and by Lisa Fearn. The site is now managed directly by the SGT office. 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. The pay-per-view income from Ingenta has brought in new income as has other copyright royalties and rights offerings.

There were no new books published in 2011, Professor Michael Cable is nearing completion of a translation of a major German book, due to be published in 2012. Two other books are nearing completion.

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

Requests continue to come in for articles, journals and books. The society library also received two visitors from New Zealand this year, who were using the facilities to research their book. This year as seen a significant breakthrough, in that we have formal access to the library. This came as a result of a campaign by Helen Moore. This has granted access to the library and also online journals. We have also been granted a computer account. Significant changes have occurred at St Georges library resulting in our own storage area for certain 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

RESIDENTIAL DISTRIBUTION OF SOCIETY

MEMBERS ON 31 DECEMBER 2011

Section	Honorary Fellow	Fellow Emeritus	Fellow	Corporate Member	Member	2011(2010)
London	4	1	7	2	29	43
Midlands	0	0	4	0	10	14
North East	0	2	2	0	1	5
North West	0	0	3	0	11	14
Scotland	1	0	3	0	4	8
Yorkshire	4	2	21	5	48	80
<i>British Total</i>	<i>9</i>	<i>5</i>	<i>40</i>	<i>7</i>	<i>103</i>	<i>164(171)</i>
Africa	0	0	0	0	4	4
Asia	0	0	1	1	14	16
(except India & Japan)						
Australia and New Zealand	0	0	1	0	6	7
Central & South America	0	0	1	0	3	4
Europe	2	0	4	3	55	64
India	0	0	1	1	7	9
Japan	0	0	0	0	13	13
USA & Canada	1	0	14	2	22	39
<i>Overseas Total</i>	<i>3</i>	<i>0</i>	<i>22</i>	<i>7</i>	<i>124</i>	<i>156</i>
London	4	1	7	1	28	41
TOTALS	12	5	62	14	227	320(314)

REPORTS FROM THE TECHNICAL COMMITTEES

Analysis and Properties Committee - 2011 Annual Report Contribution.

2011 highlights include:

- *Release of new Soda Ash and Sand certified reference materials.*
- *Preparation of articles for inclusion within the Society Journal – latest nearing completion, the sampling and analysis of limestone and dolomite.*
- *Identification and pre-release work associated with other CRM's including a low iron float glass, high purity silica and low iron glass making sand derivatives.*

Committee continues to meet quarterly, attendance being a little down in previous years with a core group of between four and six members regularly contributing to committee activities.

Links with BSI has all but evaporated; due in part to frequent personnel changes at BSI and a reluctance to re-issue standards of relevance to the Glass industry due to the relative cost / net return in such a "specialised" area of business. As such the Committee has since decided to issue its own series of documents on the sampling and subsequent analysis of glass and glass-making raw materials via the Society Journal.

The committee continues to be supported by a dedicated group of "expert" analysts drawn from the ICG. TC2 regularly contributes up to twenty co-operating analysts from across Europe and Asia (including Thailand and Japan) to support our certified reference material development programme in association with The Bureau of Analysed Samples (BAS). For 2011 this generated royalties of just over £3k for the Society.

The committee continues to keep abreast of new developments in analytical capability applicable to the glass and associated industry(ies).

S N Jamieson March 2012.

Basic Science and Technology Committee

Members resigned: Charlie Scales, Caroline Jackson, Bob Newport - all due to other commitments which prevented them contributing to the committee's activities.

Oldfield Award - this year an increased number of entries with a strongly international flavour with entries from UK, France, Denmark, and Germany. Increased publicity via email shots aided this increase. A few minor modifications to the submission and judging processes will be introduced for the 2012 Oldfield Award. The 2011 Oldfield Award winners were: (1) Joint First place- Myrtille Hunault for her Project-SPECIATION OF COBALT (II) IN OXIDE GLASSES, Joint First place-Vincent Buerger for his Master's Thesis Effects of Residual Surface Stresses on the Bioactivity of Bioactive Silicate Glasses; (2) Joint Second place- Anya Winterstein for the project - Development of optical active germanate glasses for Photonic crystal fibres, Joint Second place - Andrew Revell for his Project Investigating the Characteristic Properties of Glucose and Sucrose Glass using Modulated Differential Scanning Calorimetry and X-ray,

Lomonosov Conference, Oxford. The New Researcher's Forum was very well attended, with many entries from several countries, making this a particularly strong New Researcher's Forum. Amid strong competition, the Paul Award was won by Oliver Alderman (University of Warwick, U.K.; Local Structure in Pb²⁺-Containing Silicate and Germanate Glasses). The BSTC organised the Workshop, entitled "Conservation and Durability of glass", and secured contributions from eminent International speakers Stephen Koob (Corning Museum of Glass), Denis Strachan (Pacific Northwest National Laboratory),

Leena Hupa (Abo Akademi University) and Sarah Fearn (Imperial College London).
P Bingham Chairman BSTC

Melting Technical Committee, Annual Report 2011

Melting Technical Committee Report

Very active, Furnace Solutions 6 was well attended (~85 people) with 11 presentations and the announcement of the Mike Garvey award for best speaker. Costs were of the region of £2400, this generated an income of £5900, thus proving that the meeting is still very financially viable.

Venue will continue to be Ceram for FS7 and other considerations have been put on hold until we have a clear idea of attendees post-recession.

Following criticisms concerning the hotel; we've moved the evening get together to the Premier Inn and the pre-conference dinner the Frankie & Bennies

We currently have six confirmed papers for FS7 and therefore we require at least another 3 or 4 to complete the day and the committee are busy trying to fulfil this.

The prototypes for the Mike Garvey award have been approved by the MTC and these now require approval by Guardian Industries who will fund the award (min 5 years).

In 2015 the department of Glass Technology at Sheffield University will hold its centenary and although Furnace Solutions will be held in this year; a separate session will be organised by the MTC to support the 2015 celebrations. A CD compendium of the Furnace Solutions papers plus IGDS information has been put together; many sections are complete with other categories assigned to the committee members.

As an additional benefit for Industrial members; the CD will be available for a very small charge of £25 to cover costs; it will not be available to non-members.

Yorkshire Section

Yorkshire Section programme during 2011. 4th March ten-pin bowling at Rotherham Superbowl, ten teams of four competed. Mr Simon Holmes presented the Sports Trophy to the Graphoidal team. Pennine (2) Team were runners-up. 10th May AGM in conjunction with the SGT AGM and was held at The Harlequin with a beer tasting event provided afterwards. A Visit to Graphoidal was held on the 7th April which attracted 20 visitors, a quiz night at Rockware Social Club was held on 19th April 5 teams took part and Stolze Team took the trophy. 2nd December the Annual Dinner Dance was held at Oulton Hall Leeds, 248 people were present. Glass bottle stops were given to the ladies.

North East Section

During 2011 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.

A meeting was arranged with the Energy Institute but unfortunately our members could not attend on the date the EI subsequently chose.

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 of gathering our members together in 2012.

Accounts

Opening Balance	January 2011	£127.30
Interest Earned		£000.02
Closing Balance	January 2012	£127.32

There were no other transactions on the account during the year. We are currently in contact with the Bank of Scotland to move the money to an interest bearing account.

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

	2010	2011
<i>Glass Technology</i>		
Proceedings/Features	0(0)	0(0)
News from the marketplace	24	23
Conference Diary	12	12
Papers	223(32)	172(25)
Communications	0	0
Book Reviews	0	0
Abstracts	40 (500)	48(680)
Index	4	5
Obituaries	0	0
<i>Physics and Chemistry of Glasses</i>		
Papers	318(38)	277(34)
Conference Diary	11	4
Book Reviews		0
Abstracts	78(617)	68(560)
Index	8	8
Communications	1	1
Editorial	0	0
Journal Sales		
Glass Technology	214	215
Physics & Chemistry of Glasses	237	192
Monograph Sales		
Monograph Sales	2010	2011
Glass Furnaces Design, Construction & Operation	14	15
Coloured Glasses	30	18
Stones and Cords in Glass	9	1
ESG Proceedings (Fundamentals of the Glass Manufacturing Process)	4	0
Topical Issues in Glass, Volume 1	0	0
Refractories in the Glass Industry	14	4
Raw Materials for Glass Melting	12	2
Topical Issues in Glass, volume 2	0	0
Basic Optical Stress Measurement in glasses	6	2
Topical Issues in Glass, Volume 3	0	0
Ceramics and Glass: A Basic Technology - Hardback	1	3
Ceramics and Glass: A Basic Technology - Paperback	8	2
The Window Glass Makers of Saint Helens	2	0
Practising Stained Glass Safely	5	1
Borates Proceedings 2	1	0
Borates Proceedings 3	0	0
The Art of Glass	2	3
Bosc D'Antic Book on Glass Making	0	5
Glass Blowing	2	1
Old English Glass Houses	4	3
Early 19th Century Glass Technology in Austria & Germany	0	0
Fundamentals of Inorganic glasses	77	66
Glass to Meal Seals	4	8
Bontemps on glass making	5	5

List of Officers, Council, Administrative, Technical and Section Committees for the year 2011

PRESIDENT

Mr Brian McMillan

PRESIDENT DESIGNATE

R.K. Duly AIWM, FSGT

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

B. Brookes FSGT

G. Evans FSGT

R. J. Hand MA PhD, FSGT

A. Hannon FSGT

S. Holmes

P. Wren Howard BA FSGT

S. Jamieson

I. D. Robertson

L. Rumford

A. Stephens

A. Wright FSGT

and the Chairmen of the Board of Fellows, Technical Committees and Local Section Executive Committees ex officio.

PAST PRESIDENTS

H M West FSGT

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

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M. Brew (Recorder) FSGT

W. L. Brookes

D. Crozier FSGT

A. Hannon FSGT

D. Holland 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

H M West FSGT

C. Windle FSGT

P. Wren Howard FSGT

A.C. Wright 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)

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 (Chairman)

A. Croxall

L. Rumford

C. Brown

S. Holmes

N. Johnson

I. D. Robertson

R. M. Sales (Secretary)

R. Swift

M. Flower

D. Dalton

W. Cooke

M. Brew

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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	J. Mayher
M. Flower	P. McClusky
S. Jamieson (Chairman)	T. Moran
S. Jones	J. A. Reynolds
J. Marley	R. M. Sales
N.J. Johnson (nee Marriot)	R. Schwartz
H M West	

BASIC SCIENCE & TECHNOLOGY COMMITTEE

Paul Bingham (Chairman)	Jonathan Knowles
Aldo Boccaccini	Bob Newport
Vanessa Cutler	M O'Donnell
Ian W Donald	John Parker
Russell Hand	Margaret West
David Hollis	Rudolf Winter
Animesh Jha	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