THE SOCIETY OF DYERS AND COLOURISTS

Incorporated by Royal Charter

Annual Report and Accounts 1971

President's Message

The Annual Report and Accounts will be considered at the Annual General Meeting of the Society to be held at 4.30 pm on Friday 28 April 1972 in the Peacock Suite, Hotel Piccadilly, Piccadilly Plaza, Manchester

PERKIN HOUSE GRATTAN ROAD BRADFORD YORKSHIRE

President's Message

The highlight for me of an eventful year of Presidential office was undoubtedly my participation, as representative of the Society, in the Golden Jubilee celebrations of the American Association of Textile Chemists and Colorists. This event, at which I had the pleasure of presenting to the Association's President an Illuminated Address of Honorary Membership and an inscribed set of the new edition of the Colour Index, and meetings of the Ontario and Quebec Sections of the Canadian Association of Textile Colourists and Chemists, which I attended immediately beforehand, exemplified the high regard in which the Society is held throughout the world. International co-operation is becoming more and more essential as our technology develops and our economic interdependence increases, and I therefore greatly welcome also the moves that have been made to increase the effectiveness of the International Federation of Associations of Textile Chemists and Colourists, of which the Society is a prominent member, and to secure increased participation of overseas technologists in the work of our technical committees.

Coming nearer home, I was delighted to be President on the first occasion on which the Society's biennial symposium was held in Scotland. A stimulating technical programme, coupled with excellent social events, led to one of the best-attended and rewarding symposia ever held by the Society.

A very important feature of the year was the completion of a detailed review of the Society's objects and activities by our committee of 'young lions', whose average age was under 30. Although Council has not been able to accept all the committee's proposals, the thought-provoking nature of the recommendations augurs well for the Society's future development and well-being.

The detailed review of the year's activities given in the Report of Council includes a reference to the formation of a Colour Education Committee, whose aim is to stimulate a wider knowledge and understanding of colour throughout the community. I welcome this extension of the Society's educational activities, which I believe fulfils one of the important obligations placed on it by the Royal Charter.

I should like to draw particular attention to the work of the Regions and Junior Sections, for as President I have attended both social events and lectures in practically every Region and have been tremendously impressed by the enthusiasm shown in promoting the interests of the Society. My wife and I have been received everywhere with great kindness and hospitality. So long as members continue to devote themselves to its service, both within the Regions and by coming forward to serve on Council and the various administrative and technical committees, so long will the Society flourish.

Nineteen seventy-one was an outstanding year in the Society's history—let us make 1972 even more memorable.

W. B. Grant

March 1972

President

Report of Council 1971

In what can justifiably be described as a memorable and momentous year in the Society's history it is impossible to decide which aspect should take pride of place: the official opening of Perkin House, the Society's new headquarters; publication of the third edition of the *Colour Index* at a cost of close on £150,000; the completion of an extremely thorough and forward-looking review of the Society's objects and activities; or any of a number of other events discussed in detail below. All in all, 1971 was a very busy, but rewarding year.

Opening of Perkin House

One of the most important functions was undoubtedly the official opening of Perkin House, on 19 March, by the Minister for Industry, Sir John Eden Bt MP. A full account of the proceedings appeared in the April issue of the *Journal.* Among the distinguished guests were the Lord Mayor of Bradford, Past Presidents and Honorary Members of the Society, Chairmen of Regions and representatives from learned and professional societies, universities and technical colleges, and commerce. A commemorative plaque has been placed in the entrance hall.

As mentioned in last year's Report, the Council Chamber furniture was generously donated by the Worshipful Company of Dyers. The President at the time of the opening, Mr R. K. Fourness, commissioned a reproduction of the oil painting of Perkin by Sir A. W. Cope which was presented to Perkin on the occasion of the 'coal tar industry' jubilee in 1906, and a chairman's gavel and block was presented by the Immediate Past President, Mr W. Penn. To commemorate the opening, the Regions have made the following presentations:

Huddersfield	Photoframes for Presidential photographs
London	Inscribed earthenware plate
Manchester	Visitor's book and ash trays
Midlands	Walnut clock
West of England and South Wales	Hand-inscribed register of Fellows and Associates
West Riding	Roll of honour of Society Presidents

The Society of Dyers and Colourists of Australia and New Zealand has given a marble ink stand. The Northern Ireland and Scottish Regions have also expressed their intention to make presentations; in addition, the Leicester Junior Section has presented two leather-bound desk pads, Mr W. A. Edwards the original design for the Perkin Medal and a member (who wishes to remain anonymous) a cheque for £100. Council acknowledges with gratitude these generous gifts, which will be treasured by its successors for a long time to come.

Colour Index

Another outstanding event was the publication of the Third Edition of the *Colour Index.* The new edition, comprising five volumes totalling over 4 050 pages, is about a third as large again as the Second Edition, published in 1956. Detailed technical information on dyes classified by C.I. Generic Name occupies the first three volumes, the others being concerned with chemical constitutions and commercial names indexes. The separation of the detailed lists of commercial names under each C.I. Generic Name from the technical information and their inclusion with the alphabetical index in Volume 5 will facilitate subsequent revision and the whole work will now be kept up to date by means of a new series of quarterly 'Additions and Amendments' and a complete revision of Volume 5 every few years.

Compilation of the *Colour Index* is a co-operative venture between the Society and the AATCC, and publication of the Third Edition was scheduled to coincide with the Golden Jubilee of the Association. Speaking at the Awards Luncheon held during the AATCC's Golden Jubilee Celebrations, the Society's President, Mr W. G. B. Grant, noted that 'it seems particularly significant to recall that it was in 1921, the year in which the Association was founded, that the Council of the Society set up a committee to produce the first edition of the *Colour Index* which was published in 1924'.

Although the Association's Editorial Committee is responsible for collecting and collating all information on dyes and pigments produced in the Americas, the bulk of the editorial work has fallen on the Society's Editorial Board, under the chairmanship of Mr C. O. Clark, and the Technical Officer (Colour Index), Mr D. W. McLean. Each member of the Board undertook editorial responsibility for certain sections of the publication. It is impossible to estimate accurately the number of hours that have been devoted to this work, purely as a service to the Society, by the members of the Board with, in the case of the non-retired members, the active support and encouragement of their employers. Council wishes to place on record its high appreciation of these services, which ensure that the *Colour Index* remains—as it was described by a former President at the Society's Jubilee Dinner in 1934—the 'Colour Chemist's Bible'.

Review of Objects and Activities

The deliberations of the committee set up last year to conduct a searching review of the Society's objects and activities were completed in the early part of 1971 and a detailed report, embodying 53 specific recommendations supported by detailed arguments, was submitted to Council in March. Because of the importance which Council attaches

to this report two special meetings of Council were held to discuss it; in addition, other Society committees to which specific matters were referred also held special meetings.

The recommendations of the review committee covered every facet of the Society's activities and included proposals for increasing interest in coloration within schools; emphasising the qualification aspect of the grade of Member Corporate; modifying the ASDC scheme in the light of the increasing importance of engineering topics (chemical, mechanical and electronic); providing facilities for ASDC candidates who lack access to college courses; re-organising the *Journal,* extending the Society's information services, publishing a series of textbooks; publicising the technical activities of the Society, encouraging activities based on ancillary processes, management, marketing and administration, encouraging joint activities with other professional societies; publicising the organisational structure of the Society and strengthening links with overseas members; introducing a code of ethics; establishing a benevolent fund.

Many of these recommendations have received the approval of Council and will be put into operation at the earliest opportunity. Council's consideration of the report is expected to be completed early in 1972, after which members will be informed of the review committee's proposals, Council's decisions, and the reasons for them, and will have the opportunity to comment.

It is worthy of note that the proposals for encouraging more interest in colour in schools have already led to the establishment of a Colour Education Committee, which held its first two meetings towards the end of the year. In this way Council is seeking to fulfil one of the important objects laid down in the Royal Charter, namely, 'to initiate and stimulate research and education in the interests of coloration in all aspects of human life'.

Aviemore Symposium

Although the Scottish Region celebrated its Diamond Jubilee three years ago, the Aviemore Symposium held during September was the first Society Symposium to take place in the Region. Despite earlier fears that the distance of the venue from the main centres of the industry might discourage participation, particularly in the present difficult economic climate, the attendance of over 300 delegates (including representatives from 11 overseas countries) and over 100 ladies was one of the highest ever.

The theme of the symposium was 'Colour and Processing Challenges in the Seventies' and in addition to covering specific technological developments, including automation and solvent dyeing, a more general review was achieved by starting the symposium with a survey of the likely trends in the dyeing and finishing industry, followed by lectures on the future of the commission finishing industry in the UK and the development and establishment of finishing plants in the textile industry abroad. As well as the technical programme, a series of very successful social events was held, and much of the credit for this success must go to the Scottish Region Committee, and in particular the Region's Honorary Secretary, Mr A. C. Grant. As usual, the Symposium was concluded with a dinner and dance; well over 300 delegates and wives took part in a very enjoyable function at which the principal guest was The Hon. Lord Birsay, Chairman of the Scottish Land Court.

Publicity

Events such as the official opening of Perkin House, an Annual Dinner attended by the Chancellor of the Exchequer, and the publication of the new edition of the *Colour Index* led to the Society's receiving greater publicity than in the average year. The Society has been able to make a more systematic approach to publicity since the appointment of a technical assistant, Miss E. Goodall, whose duties include this aspect. In addition the Central Office of Information has proved very helpful, especially in relation to overseas publicity. Reference to the dyehouse simulation program was made in several leading publications at the time of the ITMA Exhibition in Paris.

For the first time an entry on 'Colour science and technology', prepared by the Society, has appeared in the Careers Guide published annually by the Central Youth Employment Executive and distributed to all local careers officers of the CYEE; previously references to the industry and to the Society had formed only a minor part of an entry on textile technology. This, coupled with the further recognition of ASDC mentioned below, is encouraging, but much still remains to be done to ensure that proper recognition is given in both the technical and the general press to the Society and the industry it serves.

International Co-operation

History was made in October when Mr W. G. B. Grant became the first President of the Society to participate in an Annual Conference of the American Association of Textile Chemists and Colorists during his term of office. The occasion was the Association's Golden Jubilee Conference at Boston and at a special awards luncheon Mr Grant presented to the Association's President, Dr E. I. Stearns, a commemorative set of the new *Colour Index,* an illuminated address of Honorary Membership of the Society to be handed down, in perpetuity, to successive Presidents, and an engraved replica of the Society's Coat of Arms as a personal memento of a visit made by Dr Stearns to the Society's headquarters in September.

The President was accompanied by the Society's General Secretary, Dr Tordoff, who subsequently

visited the AATCC Technical Center in Research Triangle Park, North Carolina, and several other related organisations in the USA. Before visiting Boston the President and the General Secretary spoke on the Society's activities at a meeting in Montreal of the Quebec Section of the Canadian Association of Textile Colourists and Chemists and attended a one-day symposium of the Ontario Section in Toronto. Naturally, the opportunity was taken to discuss matters of mutual interest and, in particular, the preparation of Canadian students for the ASDC examination.

In mid-October three prominent members of the Society—Mr I. Gailey, Mr K. McLaren and Dr J. K. Skelly—presented papers on colour matching and the use of high-energy radiation in dyeing at a one-day conference of the Quebec Section of the CATCC. Their visit followed on their participation (together with Mr D. Blackburn) in a meeting in the USA of the ISO subcommittee concerned with colour-fastness testing.

We were glad to welcome on different occasions Mr A. A. McLean, Immediate Past President of the SDC of Australia and New Zealand, Dr E. I. Stearns, President of the AATCC, and Mr J. Woolfenden, Head of the Department of Textiles at Hong Kong Technical College, where support for the Society is flourishing.

The Society continues to participate fully in the activities of the International Federation of Associations of Textile Chemists and Colourists, and a full complement of six delegates attended a meeting of the Council of Delegates of the Federation in Baden-Baden on 9 June. Largely at the instigation of the Society, the IFATCC has established an Executive Committee or Working Party, which consists of one representative (the President or his nominee) of each member association and the IFATCC Secretariat, to discuss ways in which the Federation can work more effectively to the benefit of all its members. It is believed that the more restricted membership, compared with the full Council of Delegates, will expedite discussion. The inaugural meeting of the committee was held on 30 November in Basle, when Mr P. G. Noble, President-elect, represented the Society.

Associateship

Although interest in the Associateship scheme continues to grow, as evidenced by this year's record entry of 147 candidates, there is some indication of a drop in the calibre of candidates. This is borne out by the smaller number of Associates (33) elected this year than in 1970, when there were 21 fewer candidates. It is particularly disconcerting that many candidates obtained poor results in the one paper that is specifically designed to test their technological knowledge, i.e. Paper 5 (Industrial procedures and plant). Despite these criticisms, the quality of the best candidates remains high and this year two candidates—both students at Paisley College of Technology—achieved such a uniformly good performance that the Diplomas and Education Committee concluded that they jointly deserved the President's Diploma of Honour for the most meritorious performance.

Further recognition of the high standing of the Associateship was achieved by the decision of the Science Research Council to accept ASDC as a suitable qualification for the award of SRC Research Studentships and Advanced Course Studentships. Eligibility for an award will, as with all professional qualifications (which, unlike honours degrees, are not classified), depend on a sufficiently high level of attainment being reached.

Professional Activities

The passing of the Industrial Relations Act has given professional societies much food for thought; many of them are precluded by their charters or articles of association from representing their members in negotiations concerning employment. Five science institutes which constitute the Council of Science and Technology Institutes have therefore formed an organisation, known as the Association of Professional Scientists and Technologists, which individual members of their institutes can join and thereby obtain representation under the Act. It is the Council's contention that Corporate Members of the Society, as professional technologists, should have the right, if they so wish, to join an Association that has professedly been set up to serve the needs of technologists. Accordingly application was made to join the CSTI. This application has not been accepted, but Council is taking steps to ensure that the Society's Corporate Members secure appropriate industrial representation.

Society Honours

Honorary Members

To acknowledge the extensive co-operation between the Society and the AATCC, particularly in respect of the *Colour Index,* Council unanimously endorsed a proposal by the President that the PRESIDENT OF THE AATCC be elected an Honorary Member. The only other 'ex officio' Honorary Member of the Society is the Prime Warden of the Dyers' Company, whose Clerk, Mr ROY BALFOUR PARK, was also elected an Honorary Member in 1971. Council has also recognised the sterling work of two Past Presidents—Mr ARTHUR D. FERNS and Mr WILLIAM PENN—by electing them to Honorary Membership.

Diplomas

Fellows

CHARLESWORTH R G
EDWARDS H D
HANSON J K
JOHARI D P
JONES F
PRZETAKIEWICZ E
SCADLOCK J M

Continued on page 10

Revenue Account for the Year Ended 31 December 1971

	1971 £	1971 £	1970 £	1970 £
General Income				
Membership Subscriptions		13 388		*13 544*
Donations		—		*150*
Grants :				
Federation of British Carpet Manufacturers	—		*100*	
International Wool Secretariat	500		*500*	
Wool Industries Research Association (Wira)	875		*1 000*	
		1 375		*1 600*
Investment Income :				
Quoted Investments (Gross)	1 329		*2 374*	
Bank Interest	5		*124*	
Rents Receivable	879		—	
		2 213		*2 498*
		16 976		*17 792*
Publications				
Income from Contracts for the *Journal,* including Advertisements, Abstracts and Reprints	32 820		*27 728*	
Income from other Publications	9 721		*8 624*	
		42 541		*36 352*
Other Activities				
Fastness Tests	9 678		*10 901*	
Symposium	7 254		—	
Annual Dinner	2 208		*1 820*	
Diploma Fees	1 080		*997*	
Society Tie	134		*76*	
CATCC Lecture	—		*73*	
		20 354		*13 867*
Revenue for the Year		79 871		*68 011*
Expenditure as detailed on opposite page		78 366		*67 637*
Surplus for the Year		1 505		*374*
Less—				
Loss on Sale of Investments		—		*1*
Net Surplus (Transferred to Accumulated Fund)		£1 505		*£373*

Colour Index Third Edition Account for the Year Ended 31 December 1971

	1971 £	1971 £
Sales	110 747	
Add—Stock at 31 December 1971	54 980	
		165 727
Deduct—Production Costs	142 820	
Advertising	1 415	
Postage and Distribution Costs	1 352	
		145 587
Surplus (transferred to Colour Index Suspense Account)		£20 140

Schedule to Revenue Account: Expenditure

	1971		1970	
	£	£	£	£
General Administrative Costs				
Salaries, Wages, National Insurance and Honoraria	18 292		*16 247*	
Rent, Rates, Insurance, Cleaning, Lighting and Heating	5 005		*3 819*	
Telephone, Printing, Stationery and Postage	4 140		*3 529*	
Repairs	803		*639*	
Removal Expenses	—		*502*	
Depreciation:				
Furniture and Equipment	757		*673*	
Freehold Property	1 416		*1 400*	
Amounts Written Off Furniture and Equipment	—		*675*	
New HQ: Publicity and Opening Ceremony	392		—	
Hire of Electronic Scanner	152		*152*	
Bank Charges and Interest	1 030		*223*	
Incidentals	1 297		*883*	
Auditors' Remuneration	400		*300*	
General Travelling and Hotel Charges	576		*495*	
Committee and Conference Expenses	839		*771*	
Regional Costs	1 290		*1 509*	
Medals and Awards	666		*266*	
Subscriptions	317		*397*	
Research Studentship in Colour Measurement	785		*615*	
		38 157		*33 095*
Deduct—				
Expenditure incurred above and allocated to *Colour Index* Third Edition		3 100		*3 100*
		35 057		*29 995*
Publications				
Cost of Publishing *Journal,* including Postage, Reprints and Fees	24 674		*25 376*	
Cost of other Publications	5 725		*4 756*	
		30 399		*30 132*
Other Activities				
Fastness Tests	3 612		*4 777*	
Symposium	6 121		—	
Annual Dinner	2 040		*1 622*	
Diploma Costs	1 044		*938*	
Society Tie	93		*57*	
CATCC Lecture	—		*116*	
		12 910		*7 510*
Total Expenditure		£78 366		*£67 637*

Balance Sheet as at 31 December 1971

	1971		*1970*	
	£	£	*£*	*£*
Freehold Property				
At Cost at 31 December 1970	56 184		*37 440*	
Add—Cost of Alterations during Year	463		*18 744*	
	56 647		*56 184*	
Less—Depreciation written off to date	2 816		*1 400*	
		53 831		*54 784*
Investments at Cost (Market value £36 763 ; *1970—£26 453*)		28 753		*28 753*
Furniture and Equipment at Cost less amounts written off		6 738		*5 808*
		89 322		*89 345*
Current Assets				
Stocks (at lower of cost and net realisable value)	59 945		*3 620*	
Debtors and Prepayments	39 822		*9 320*	
Cash at Bank—				
Deposit Account	143		*137*	
Current Account	3 767		—	
Cash in Hand	929		*633*	
		104 606		*13 710*
		193 928		*103 055*
Less—**Current Liabilities**		63 177		*30 295*
		130 751		*72 760*
Expenditure Carried Forward				
Expenditure Relating to *Colour Index* Third Edition		—		*35 070*
Net Assets		£130 751		*£107 830*
Representing				
Accumulated Fund, Development Fund and specific funds as detailed on opposite page		£130 751		*£107 830*

Approved in Meeting of the Council held 1 March 1972

W. G. B. GRANT	A. D. FERNS	L. M. WOOD
President and Chairman of Council	*Chairman Finance and General Purposes Committee*	*Honorary Treasurer of the Society*

AUDITORS' REPORT

In our opinion the accounts set out on pages 6 to 9 give a true and fair view of the state of the Society's affairs at 31 December 1971 and of its surplus for the year ended on that date.

Bradford
1 March 1972

RAWLINSON, GREAVES & MITCHELL
Chartered Accountants

Schedule to Balance Sheet: Funds

	1971 £	1971 £	1970 £	1970 £
Accumulated Fund				
Balance at 1 January	101 927		*101 554*	
Surplus for Year on Revenue Account	1 505		*373*	
Gifts for Perkin House	1 285		—	
		104 717		*101 927*
Colour Index Suspense Account				
Surplus to date on C I Third Edition Account		20 140		—
Development Fund				
Balance at 1 January	1 000		*1 000*	
Less—Costs incurred in simulation program	121		—	
		879		*1 000*
George Douglas Lecture Fund				
Balance of Fund	2 000		*2 000*	
Accumulated Income	685		*649*	
	2 685		*2 649*	
Less—Lecture Expenses	—		*20*	
		2 685		*2 629*
Knecht Memorial Fund		100		*100*
Turner-Scholefield Award Fund				
Balance of Fund	2 000		*2 000*	
Accumulated Income	366		*174*	
	2 366		*2 174*	
Less—Award Expenses	136		—	
		2 230		*2 174*
		£130 751		*£107 830*

Schedule to Balance Sheet: Investments

Gross Income £		Nominal Value £	At Cost 1970 £	At Cost 1971 £	Middle Market Value 1970 £	Middle Market Value 1971 £
Accumulated Fund						
—	3% Southern Rhodesia Stock 1971/73	901	911	911	225	631
52	3% British Electricity Stock 1968/73	1 739	1 245	1 245	1 607	1 704
1	3½% Treasury Stock 1979/81	37	36	36	26	31
£53		£2 677	£2 192	£2 192	£1 858	£2 366
1 144	M & G Charifund (10 400 units)		17 489	17 489	17 897	25 896
132	Tyndall Exempt Fund (4 519 units)		4 999	4 999	3 728	5 106
£1 276			£22 488	£22 488	£21 625	£31 002
£1 329			£24 680	£24 680	£23 483	£33 368
George Douglas Lecture Fund						
57	3% British Transport Stock 1978/88	1 984	2 000	2 000	945	1 245
Knecht Memorial Fund						
—	3% Southern Rhodesia Stock 1971/73	99	100	100	25	70
Turner-Scholefield Award Fund						
	Lancashire County Council					
95	9½% Bond (31 December 1974)	1 000	1 000	1 000	1 000	1 000
	County Borough of Walsall					
97	9¾% Redeemable Stock 1977/79	1 000	973	973	1 000	1 080
£192	(Balance: Uninvested £27)	£2 000	£1 973	£1 973	£2 000	£2 080
Totals as Balance Sheet			£28 753	£28 753	£26 453	£36 763

Associates

ABEL A G
ARDRON D J
BANCROFT T A
BENTHAM M
BROWNE N M
DOLING P (Miss)
EDDY R C
ELLIOTT M S
EWING R
FULTON R J
GIBSON P J
HANCOX P D
HILL D J
HOWE D J
INGHAM D J
KENDALL B
McDONALD A J
McKANE J A
MORRIS J L
MULREID K
NEWTON R J
ORR M E (Mrs)
PATON D M
PRINGLE I D
RATHIE W S
RAYNOR L G
ROBERTS C W
ROBINSON D I
SKUBRIS V
SMITH D B
SMITH P M
SMITH T
STEVENSON R J

Medals

Gold Medal

FRANK JORDINSON for exceptional services to the Society.

CYRIL BEYNON STEVENS for exceptional services to the Society.

Silver Medal

BRUCE ROBERT BENNIE for valuable services to the Society, especially as Honorary General Secretary of the SDC of Australia and New Zealand.

HERBERT DEREK MOORHOUSE for valuable services to the Society, especially in the Manchester Region.

The Livery Companies

No recommendations for the award of the Dyers' Company Research Medal and the Feltmakers' Company Research Medal were made during 1971.

Presentation Ceremony

The principal guest at the 1971 Presentation of Diplomas and Medals was the Rt Hon. Lord Boyle of Handsworth, Vice-chancellor of the University of Leeds, who stressed the need to validate professional standards in the UK, particularly with the prospect of entry into the European Economic Community.

Annual Dinner

Chief guest at the Annual Dinner was the Chancellor of the Exchequer, the Rt Hon. Anthony Barber, TD MP, who in a widely reported speech set out the aims of the government's economic policy. In proposing the toast to the Society, Mr Barber remarked that since its formation its work in stimulating the advance of technology in the coloration field had, both directly and indirectly, played an important part in the country's economy.

In his response to the toast the Society's President made special reference to the important innovative work in encouraging a wider general understanding of colour and coloration which it was hoped would result from the activity of the newly formed Colour Education Committee.

The dinner, the first to be held in London since 1966, attracted 620 members and guests, over 100 more than had previously attended an Annual Dinner in London.

Worshipful Company of Dyers

The Dyers' Company, which was first incorporated in 1471, has warmly supported the Society since its formation in 1884. During 1971 the Company announced the establishment of a £10,000 trust fund to enable the Society to publish text books in the field of colour and coloration. Council is happy to place on record its deep appreciation of this further act of generosity by the Company.

The link between the Company, established to encourage 'the art or mistery' of dyeing in the Middle Ages, and the Society—present-day custodian of the science and technology of coloration—was further illustrated during the Company's Quincentenary Exhibition at Dyers' Hall, where the Society's Armorial Bearings and the Order in Council granting the Royal Charter were on display.

Finance

In last year's Report it was noted that, in the absence of additional income, a substantial deficit could be expected during 1971. Accordingly, Council felt obliged to invite members to authorise an increase in subscription rates from January 1972. The appropriate resolution at the AGM was carried unanimously. As requested at the AGM, Council has paid special attention to the financial position of students and retired members and has stipulated a nominal increase in subscriptions for the former and an unchanged subscription for the latter. Although a few resignations have been received because of the increase, it is clear that the large majority of members have accepted that the higher subscription is justified and, indeed, inevitable if the Society is to continue to be fully effective in advancing the technology of coloration.

It will be clear from an examination of this year's accounts that the expected deficit did not, in fact, materialise ; there are several reasons for this. In the first place, the Finance and General Purposes Committee authorised increases in Symposium registration fees and in the Colour Index 'Additions and Amendments' subscriptions to ensure that these would provide an appropriate measure of surplus to help finance essential activities that cannot readily be made fully viable economically.

Secondly, where possible, economies have been achieved with the minimum detriment to the services provided ; an outstanding example is the Society's *Journal,* where the Publications Committee, aided by the results of a questionnaire circulated to a representative cross-section of

members, has been able to effect considerable economies, particularly in the Abstracts, without seriously affecting the coverage of those sections that are of greatest interest to the majority of readers. Thirdly, unexpectedly large support for some activities, e.g. the Aviemore Symposium, has resulted in these being more successful financially than had originally been thought likely.

Nevertheless, operating costs continue to rise and it will be essential to keep a tight rein on all activities to ensure that they are carried out as efficiently and economically as possible. One relevant proposal, initiated by the Society's staff, has been the possible establishment of an 'in-house' typesetting unit which would be expected to reduce substantially the cost of printing the *Journal,* text books and other publications. Because of capital costs the viability of such a system would depend on a demand for frequent revisions of the Commercial Names indexes (Vol. 5) of the *Colour Index;* a market survey is being carried out and on the results of this a final decision will be made.

The very substantial expenditure on *Colour Index* printing this year has markedly reduced the contribution to the Society's revenue made by investment income. However, by taking advantage of overdraft facilities provided by the Society's bankers it has been possible to keep the equity investments intact; the recovery of share prices during 1971 has led to an overall market value that is well above the cost of these investments. Further investments will be made as and when the return on *Colour Index* sales permits.

Regional Activities

As Region activities provide the main individual personal contact between members and the Council, through Region Officers, the strength of the Society depends very much on a strong Region structure. Although the Society, in common with scientific and technological societies generally, has experienced considerably reduced attendances at evening lecture meetings, which seem little influenced by the use or absence of reminder cards, some Regions have observed that considerable improvements are obtained if topics of direct practical relevance are chosen.

Symposia continue to be well supported; the Scottish Region, for the first time in its history, was host to the Society's Biennial Symposium and had a major hand in organising the social events. The Manchester Region, as well as holding a further two-day management forum at Lancaster University —on the subject 'The Dyer and the Law'—co-operated with local sections of the Chemical Society, the Royal Institute of Chemistry and the Society for Chemical Industry in holding a half-day symposium on 'Chemical Finishing'. The Northern Ireland Region has since 1967 organised a two-day symposium in alternate years in the Republic of Ireland; this year the topic was 'Technology and Marketing in the Irish Textile Industry' and a very successful event was attended by over 120 members and non-members from all parts of Ireland and the UK.

The Northern Ireland Region celebrated its 25th anniversary at a dinner attended by the Governor of Northern Ireland, His Excellency Lord Grey of Naunton, at which the Minister for Commerce, The Rt Hon. Robin Bailie, MP, proposed the toast of 'The Society', to which the President of the Society responded.

To stimulate interest in the Society in the Tyne-Tees area, the West Riding Region held its first Tees-side lecture, at Rushyford, Co. Durham, in February; so successful was the event that a second such lecture was held in October.

Social events are always well attended; there was a record attendance of 311 at the Midlands Region's Annual Dinner at Nottingham University in April, and 93 members and guests attended the first buffet dance held by the Huddersfield Region in the same month. The West Riding Region's ladies' evening also had its highest attendance (130).

At least one Junior Section has found works visits and film evenings more successful than formal lectures; some hold at least one meeting devoted to short papers given by Junior Members themselves. Not only do such meetings provide the opportunity for members to play a more active part in the Society; they also bring to light those who are likely to play important roles in senior Regions in the future. A further opportunity for participation was provided by the Midlands Region, which organised a discussion meeting on 'What Do Members Want from the Society'?

Publications

During the year (1970 figures in parentheses) 54 (41) papers were published in the *Journal;* these comprised 10 (14) lectures, 18 (20) communications, 19 (0) Symposium papers and 7 (7) sponsored, review or explanatory papers. Despite the inclusion of Symposium papers the total number of pages (522) is less than the number (552) published in 1970 and well below the total in the last symposium year (680). Important reasons for this were the more intensive 'financial' editing—an attempt to ensure that papers are kept as brief as possible—and the publication of 'titles only' abstracts in sections of minor interest, introduced to combat the ever-increasing costs of printing.

In September the Publications Committee held its 1,000th meeting, which was followed by a dinner, attended by several former members of the committee, at which the President paid tribute to the sterling work of the committee over the 87 years since the *Journal* first appeared.

SDC News continued to be a valuable means of communication between Council and the members. Because of its success, the frequency of publication was increased to six per annum in 1971, one

issue being specially devoted to a preview of the ITMA Exhibition, in which six prominent members of the Society set out the machinery needs of various sectors of the textile dyeing and printing industry. An editorial in the same issue stressed the need for closer collaboration between machinery makers and colour users in view of the increasing importance of the engineering aspects of the industry, which has been recognised in the discussions of the Diplomas and Education Committee on possible modifications of the ASDC examination.

Independently of the Review Committee, the Publications Committee recommended to F & G P Committee that the Society should undertake the more systematic publication of text books. Authority was given to produce a book on 'Theories of Dyeing', preparation of which is now under way under the general editorship of Mr C. L. Bird. The institution by the Dyers' Company of a textbook publication trust fund will now enable the Textbooks and Invited Papers Subcommittee of Publications Committee to begin preliminary work on other books to cover areas of particular interest to ASDC candidates.

A small booklet dealing with 'Numerical Problems in Colour Physics', by Mr R. S. Sinclair of Paisley College of Technology, aimed at candidates for Paper 3 of the ASDC examination, was issued just before the end of the year. A second edition of Dr C. H. Giles's 'Laboratory Handbook of Dyeing' was published during the year and is achieving excellent sales.

Technical Work

Automation

The February issue of the *Journal* contained an account of the investigations carried out at the Shirley Institute under a project initiated by the Society's Automation Committee to prepare a computer program to enable the operations taking place in a dyehouse to be simulated ; this permits the effect on production rate and economics of certain variables, e.g. number of operatives per machine, limitation of redyes, product mix, to be assessed. Publicity for the program was achieved through a specially prepared two-colour leaflet which was distributed at ITMA and subsequently through the *Journal;* this has led to many enquiries from several countries, which are at present being dealt with by Shirley Institute staff.

One feature of the Aviemore Symposium was a three-lecture session on automation which included a discussion period on, in particular, the work of the Society's committee. A detailed questionnaire was circulated to participants and it is expected that an analysis of the replies will enable the Automation Committee to determine where its efforts should next be concentrated.

Fastness Tests Co-ordinating Committee

The highlights of the year were undoubtedly the two international meetings, that of the ECE in Paris (April) and of ISO in Boston (October). The tests for photochromism, and fastness to burnt-gas fumes and domestic and commercial laundering reached the final stage of development and a number of minor amendments were made to existing tests. Further discussions were held on the Society's carpet tests, on adjacent fabrics and the testing of fluorescent brightening agents, and it was agreed that the USA would attempt to draft a combined test to cover xenon-arc testing, using the AATCC standards as an alternative to the ISO standards.

Details of a method for determining colour fastness to rubbing on carpets, devised by the Carpet Subcommittee of FTCC, were published in the *Journal* in April ; the testing apparatus is being marketed by Shirley Developments Ltd. A revised version of tests for measuring light fastness (BS1006) was issued.

Colour Measurement Committee

The major development was the decision of ISO to add colour measurement to the remit of the colour fastness subcommittee (ISO/TC 38/SC 1), and at its meeting in October delegates from 13 countries unanimously accepted the Adams-Nickerson colour-difference formula as a tentative test. The most important domestic development was the completion of the committee's practical 'Guide to the Measurement of Colour and Colour Difference Using Photoelectric Tristimulus Colormeters' which should be published early in 1972.

Basic Dyes Committee

The work of the Basic Dyes Committee, initiated last year, has progressed rapidly, so that as early as February it was possible to publish in the *Journal* tentative tests for evaluating the dyeing properties of basic dyes on acrylic fibres. Comments on these tests were invited and subsequently the committee has been considering these and undertaking further inter-laboratory investigations. It is hoped that more definitive tests will be published during the coming year.

Acknowledgments

Perhaps even more than in most years this Annual Report illustrates the importance for the Society's development of the voluntary service provided by its members ; the new *Colour Index* is a prime example. Council therefore wishes to place on record its deep appreciation of the services rendered to the Society in many ways by many members and the enthusiastic support received from many companies on both the dye-making and the dye-using sides of the industry and from educational and research establishments.

The more effective and enthusiastic the work of the Society's technical and educational committees the greater usually is the work that has to be undertaken by the Society's staff at headquarters. Council therefore also extends to the staff special thanks for coping efficiently with the additional duties occasioned by a particularly eventful year.

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