BCSA Limited is the national organisation for the steel constructional industry: its Member companies undertake the design, fabrication and erection of steelwork for all forms of construction in building and civil engineering. Associate Members are those principal companies involved in the purchase, design or supply of components, materials, services etc, related to the industry. Corporate Members are clients, professional offices, educational establishments etc, which support the development of national specifications, quality, fabrication and erection techniques, overall industry efficiency and good practice.

The principal objectives of the Association are to promote the use of structural steelwork; to assist specifiers and clients; to ensure that the capabilities and activities of the industry are widely understood and to provide members with professional services in technical, commercial, contractual and quality assurance matters. The Association’s aim is to influence the trading environment in which member companies have to operate in order to improve their profitability.

The steel construction industry is going through challenging times. This Annual Review highlights the key issues being addressed by the Association to help members and specifiers to meet the increasing demands of clients, within a safe and successful operating environment.
The industry’s output has remained steady over the last two years at 1.17 million tonnes. This year we are expecting a slight drop of around 3%. The decline is due to falls in industrial and leisure building markets, partly offset by a rise in multi-storey building.

Steel’s dominance as a framing material for multi-storey buildings continues with the latest figures showing a market share at nearly 70%. Steel is strong in all sectors, but shows its greatest dominance in the multi-storey industrial (92%), leisure (79%), retail (75%) and office (70%) fields; in no area does its share of the multi-storey market fall significantly below 50%. In the non-domestic single-storey building market steel enjoys a market share of 90%. Speed of construction remains the number one reason for choosing steel, with “lowest overall cost” coming second.

A key theme of BCSA is health and safety. The reality of life is that regrettably accidents will and do happen. We must all recognise this and work together to reduce, if not eliminate, the risk of accidents, no matter where they are likely to occur. Safety is our collective responsibility. The health and safety of all the people involved in the industry is therefore at the top of our agenda. To this end we are active in a variety of areas, both on and off site – publishing new guides, liaising with HSE, developing a “safe site checklist” and researching the causes of accidents.

Continued training, professional development and benchmarking of our performance are vital to ensure the future of our industry. Towards this end we have launched a new management update programme, which will be structured on a regional basis covering topics of particular relevance to local companies. In addition the financial training of many of our employees in the past has been poor – hence BCSA together with its financial advisers has prepared a handbook which has been structured to give appropriate guidance on relevant financial issues to all levels from the shopfloor to the Managing Director. We have also carried out financial benchmarking in order that companies can compare their performance over that past years against others on a number of financial measures. We have published new technical and contractual handbooks and will be running seminars for members on these important topics.

We were delighted that Patricia Hewitt MP, who is now Secretary of State for Trade and Industry, was able to launch our new website at the National Dinner held at the Savoy Hotel in March when she said:

“The BCSA is an important part of the culture of continuous improvement, innovation and best practice, for example on e-commerce. I am delighted to announce the launch of the industry’s new internet portal www.SteelConstruction.org. The new site will enable clients and specifiers to find information about steel construction companies and suppliers to the steel construction industry and also to search for advice and information about steel construction related topics. It will also enable the staff in BCSA member companies to gain access, via a password, to an extensive information resource not available to non-member companies.”

It is with great regret and sadness that we record the death of our Deputy President, Bertie Fisher, who was tragically killed in a helicopter accident; Bertie is sadly missed.

The Review which follows records the many ways in which BCSA has, over the past year, represented members’ interests and provided them with a high level of professional service. It also illustrates the many ways in which the Association has promoted the case for steel in construction and assisted specifiers in making full use of the skills and capabilities of members.

Steve Fareham  
President

Derek Tordoff  
Director General
The Commercial and Contracts Committee is responsible for extending Members’ expertise in the legal and contractual area.

**The Construction Act**

It was reported in last year’s Annual Review that BCSA, along with its the Constructors Liaison Group colleagues, had carried out a survey on the two years’ operation of the ‘Construction Act’, which was to form part of a report to the then Minister for Construction, Nick Raynsford MP. The ‘headline’ from the report, which was submitted to the then Minister in June 2000, was that 96% of construction contracts did not comply with the Construction Act, as they did not contain an adequate mechanism for payment as required by s. 110 of that Act.

After consideration of the CLG’s report, Nick Raynsford asked the Construction Industry Board to carry out a review of adjudication to see if any improvements could be made. BCSA played a full part in CIB’s review, and in subsequent discussions with the Minister’s officials. The Minister has since announced proposals for making adjudication fairer, more effective and easier to understand. These proposals include better guidance and training of adjudicators and better guidance for lay parties; some amendments to the Scheme for Construction Contracts and amendment to the primary legislation (the ‘Construction Act’) to outlaw the practice of putting into contracts a requirement that the party referring a dispute to adjudication should bear both parties’ costs no matter what the outcome of the adjudication.

It is thanks to BCSA Members providing evidence of abuse that BCSA and its sister organisations can take up these matters with Government.
Adjudication

Following on from the above, BCSA continues to monitor the many cases arising from adjudication. The courts are gradually clarifying the law, to the extent that it is now clear that the only real reasons for challenging enforcement of an adjudicator’s decision are the adjudicator’s lack of jurisdiction or natural justice issues. BCSA Members worked hard to obtain the right of adjudication and can have the satisfaction of seeing the transformation that has taken place in dispute resolution within the construction industry. The amendments proposed by the Minister, while not as extensive as those desired by the industry, will nevertheless improve and clarify the adjudication process.

Retentions

Another matter upon which BCSA Members are making an impact is retentions. BCSA was one of the first trade associations to declare that there should be no deduction of cash retentions on contracts. This has now been established policy for a number of years and is generally regarded in the industry as a whole as part of the normal trading environment. More recently, BCSA, together with its CLG colleagues, has begun a campaign to abolish retentions entirely in the public sector. Defence Estates, the property arm of the MOD has made a good start by declaring that there will be no retentions on any of its Prime Contracts. Before the general election BCSA Members have been writing to their MPs to ask them to support an Early Day Motion calling for the abolition of retentions in the public sector - retentions are a hangover from the days of endemic lack of trust in the construction industry and have no place in the modern procurement process.

Workshops and Seminars

Successful regional workshops and seminars were held during the year, including Mock Adjudications in Birmingham and Leeds. In Scotland, BCSA held a Valuation of Variations workshop and a seminar on adjudication, and in Northern Ireland, BCSA joined its CASEC NI colleagues for a seminar on adjudication.

QS Helpline

During the course of the year, BCSA introduced a ‘QS Helpline’, whereby Members can obtain 15 minutes’ free telephone advice from leading QS practice Cyril Sweett and Co. The possibility of setting up further free helplines is actively being considered by the Committee.

Links with Industry Bodies

BCSA was sorry to hear of the demise of the Construction Industry Board, which was wound up at the end of June 2001. In its place, a new strategic forum for the construction industry will be established under the aegis of Sir John Egan to oversee action on major issues of importance to the whole industry. BCSA will be working to ensure that issues of major importance to steelwork contractors - for instance, payment protection, Code of Practice for the Selection of Specialists by Clients, abolition of retentions - are carried forward.

Contractual Handbook

The new edition of the Contractual Handbook has been published. Because of the number of changes in the law since the last edition the Handbook has been almost completely re-written.
Marketing and Membership Services

Marketing the capabilities and achievements of the steelwork contracting industry and also the activities of the Association are vital and growing areas of activity.

**Membership Services**

Members have access to a professional Head Office advisory service on a wide range of topics. In addition, the Regional Secretaries organise a programme of regional meetings and events in order that members can make personal contacts and share experiences.

A comprehensive briefing and information package is issued each week to members to keep them fully informed on current matters.
Promotion

During the year the Association has achieved considerable trade press coverage of the industry’s concerns and activities.

The Association continues to produce its popular BCSA desk diary, which incorporates the National Structural Steelwork Specification for Building Construction, safe load tables, etc.

The fifth edition of the Directory for Specifiers and Buyers was published in the spring of 2001 and has been direct mailed to 10,000 clients, architects, engineers etc. The aim of the Directory is to promote the capabilities of member companies and also the advantages of steel in construction. The Directory has this year also been translated into French, Spanish, Portuguese and Arabic.

A joint BCSA/Corus quarterly supplement, “Steel Construction News”, is inserted into “The Structural Engineer” magazine. Each issue is distributed to 26,000 structural designers.

The Association’s magazine, “New Steel Construction”, is published jointly with SCI and is mailed to 8,000 named individuals bi-monthly.

Structural Steel Design Awards

The Structural Steel Design Awards Scheme is sponsored jointly by BCSA, Corus Group plc and the Steel Construction Institute, and is administered by the Association. The objectives of the Scheme are to recognise the high standards of structural and architectural design attainable in the use of steel and its potential in terms of efficiency, cost effectiveness, aesthetics and innovation.

Sir Alan Cockshaw, Chairman of English Partnerships, kindly presented the 2001 Awards at a luncheon ceremony held on 5 June at The Savoy Hotel.

Education

BCSA administers the Steel Construction Challenge for Schools competition aimed at improving industry/school links. The Challenge is co-sponsored by the University of Leeds, Corus Group plc and SCI.

The challenge for 2001 required students to “design and build a rotary frame to circulate 1.2kg of water through the greatest height, using the supplied model kit”.

Mr Brian Clancy, Chairman of the Association of Consulting Engineers, presented the 2001 Awards on 26 April on board HMS Belfast.

Management Update Programme

A pilot programme of Management Update Seminars has been held in the Southampton area for local member companies covering Contracts, Employment and Finance. The Seminars will now be extended to local groupings across the country during the coming year.

Macmillan Cancer Relief

To date over £30,000 has been raised for Macmillan Cancer Relief at various events.
The Register of Qualified Steelwork Contractors

The Register of Qualified Steelwork Contractors is more than just a list of companies as each applicant company must qualify by being audited by specialist auditors who check the company’s financial resources, technical resources and track record. The result is two criteria:

• categorisation of the company in terms of the work it can execute technically
• classification of the company in terms of the maximum size of contract it should handle

RQSC/Constructionline Partnership

The Register of Qualified Steelwork Contractors Scheme has been in a Partnership Agreement with Capita Group plc since July 1999, whereby on behalf of Constructionline RQSC assesses companies requesting entry in: Group Work Category: Civil & Structural Engineering Steelwork Structural and Group Work Category: Multi-Disciplinary Steel Fabrication.

Bridgework Register

A special section of the Register has been developed to cover bridgework and the following wording has been agreed with the Highways Agency for inclusion in its tender documentation with effect from 1 May 2001:

“Structural Steelwork: tenderers should note that the fabrication and erection of steelwork for bridgeworks must be carried out by a steelwork contractor listed in the Register of Qualified Steelwork Contractors for the type and value of the work to be undertaken. This requirement may also be satisfied, if necessary, by registration and audit under an approved equivalent registration scheme from another member state of the European Union provided that the scheme ensures corresponding levels of safety, suitability and fitness for purpose. Enquiries about the Register should be made to:

The Register of Qualified Steelwork Contractors,
4 Whitehall Court, London SW1A 2ES.
Email: Gillian.Mitchell@steelconstruction.org.
Website: www.steelconstruction.org.
Tel: 020 7839 8566.”
## Key to classification and categorisation gradings

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### Categories

Applicants may be registered in one or more categories to undertake the fabrication and responsibility for any design and erection of:

- **A** All forms of building steelwork
- **B** Bridgework
- **C** Heavy industrial plant structures
- **D** High rise buildings
- **E** Large span portals
- **F** Medium/small span portals and medium rise buildings
- **G** Footbridges and sign gantries
- **H** Large span trusswork
- **J** Major tubular steelwork
- **K** Towers
- **L** Architectural metalwork
- **M** Frames for machinery, supports for conveyors, ladders and catwalk
- **S** Small fabricated steelwork

### Notes

1. Contracts which are primarily steelwork but which may include associated works. The steelwork contract value for which a company is pre-qualified under the Scheme is intended to give guidance on the size of steelwork contract which may be undertaken; where a project lasts longer than a year, the value is the proportion of the steelwork contract to be undertaken within a 12 month period.
2. Where an asterisk (*) appears against any company's classification number, this indicates that the assets required for this classification level are those of the parent company.
The provision of technical support and leadership, to member companies, the constructional steelwork sector and the wider construction industry, is a core activity of BCSA, and one that is fundamental to the delivery of its aims and objectives.

**Elements of this service comprise:**

- The Process and Technical Committee, a forum for developing advice and providing leadership on key technical issues affecting BCSA members
- Working groups, addressing particular topics or areas of common interest
- Bridgework Conference
- Codes and standards development
- Liaison
- Information and advisory services

**Process and Technical Committee**

Responding to the needs and concerns of its member companies is a key measure of the success of BCSA, and this is particularly true in the case of BCSA’s Process & Technical Committee, which focuses on technical and process-related issues.

The Process & Technical Committee met on three occasions during the past year. Topics discussed, of significant importance both to steelwork contractors and the wider construction industry, included:

- BS 5950-1: 2000 (published May 2001)
- BS 5950-2: 2001 (published August/September 2001)
- Amendments to the Handbook of Structural Steelwork
- BS 6399-2 Wind Loading - application rules and guidance
- Withdrawal of CP3 Chapter V Part 2
- Eurocode 3 (Conversion from ENV to EN) - influencing the process of conversion
- Fire
- Health and Safety – Publications, lorry loading, machine guarding and RIDDOR database, replacement for HSE’s GS 28 document
- Development of the Safe Site Handover certificate
- Information exchange and responsibilities
- Realistic Steelwork Tolerances and Interfaces
- New BCSA website, www.steelconstruction.org
Working Groups

Working groups, reporting to the main P&T Committee, met during the past year to cover issues being raised by member companies or to deal with issues that have significant importance to steelwork construction. These working groups consist of representatives from member companies and the wider steelwork sector addressing many and diverse issues, and comprise:

- **CNC Users Group** - forum for companies with CNC machinery
- **Computer Users Group** - focusing on CAD/CAM and related issues
- **Connections Group** - input to the sector wide group
- **EPA Group** - implementation of the Environmental Protection Act
- **Health & Safety Group** - considering H&S and CDM issues

Bridgework Conference

This group is focussed on those member companies with a particular interest in bridgeworks, with additional representatives from Corus Group plc and clients such as the Highways Agency, Railtrack, and London Underground. It provides a forum for discussion of the particular issues facing bridge steelwork contractors. Recent activity has included the successful establishment of membership of the RQSC Bridgework scheme as a pre-requisite for tendering for bridgework to the Highways Agency. Work continues with Railtrack and other major bridge clients to achieve the same adoption of the scheme for their bridge contracts.

Codes and Standards Development

BCSA continues to be represented on some 70 BSI and European technical committees, striving to maintain practical UK influence on the 'standards' processes; this representation is provided by BCSA Head Office staff and individuals from member companies.

It is essential for the steel construction industry to be appropriately represented on the committees responsible for formulating British and European codes and standards, in order to shape and influence the drafting of new codes and the maintenance of existing ones.

In this coming year, far-reaching decisions will be made concerning the future of Eurocodes. BCSA continues in its attempts to influence the content and complexity of developing codes and standards, to represent the UK on European committees and to represent the industry to standards bodies, Government Departments and Ministers.

Liaison

BCSA maintains close liaison with other organisations associated with the constructional steelwork industry in the UK, such as Corus Group plc, the Steel Construction Institute, the National Association of Steel Stockholders and the Association of Consulting Engineers. A good rapport has been established with Government Departments and Agencies, including the Highways Agency, the Department of Trade and Industry and where technical issues are concerned, the Department of the Environment, Transport and the Regions (prior to the June 2001 General Election). In Europe, BCSA is the UK’s representative body on the European Convention for Constructional Steelwork.

Information and Advisory Services

Dissemination of relevant and important technical information and developments is achieved through publications, presentations, reporting to BCSA regional meetings, a weekly post-bag to members, “New Steel Construction” and courses and seminars. BCSA staff and member company representatives have lectured on ‘external’ courses to promote the greater adoption of structural steelwork and an understanding of technical issues relating to steelwork design, fabrication and erection.

A major recent development has been the construction of the new BCSA website (www.steelconstruction.org). This relational database allows the “combined knowledge and expertise” of BCSA staff, committee members and wider industry to be stored in a powerful, searchable format, making key information available to member companies and anybody searching for steel information on the web. Work will continue throughout this year to populate the database with relevant information.

In addition to the new website, the ‘external’ face of BCSA to the industry is often in the form of technical advice and support, which is available to member companies, clients, specifiers, designers and contractors alike. Response to specific queries is given, where possible, by BCSA staff, but where further assistance is necessary alternative sources of information are recommended, such as the complementary advisory services run by Corus Construction Centre and the Steel Construction Institute.
A major theme in the BCSA over the last 12 months has been health and safety, and the Association has received strong support from the Department of Trade and Industry [DTI] on this theme. In addition, the BCSA has continued to work closely with the Department of the Environment, Transport and the Regions [DETR], particularly in matters concerning sustainability and competitiveness. The two Departments have given their backing to a variety of initiatives that should prove of lasting benefit to the steel construction sector.

The BCSA New Generation Website

Last year’s review outlined a DTI sponsored study into the viability of an expert system to serve the sector. Based on that study, the BCSA Website has been has completely re-designed round a digital database system. The new site, www.SteelConstruction.org, was launched on 6 March 2001, by Ms Patricia Hewitt MP, the then Minister for E-Commerce. It provides a powerful tool to enable clients and specifiers to find information about steelwork contractor companies. In addition, it provides access to a growing database of steel construction-related information. The database will cover a broad spectrum of information of specific use to the sector, and of more general interest and use to the wider public, whether searching for particular information or randomly surfing the Internet.
Health and Safety Handbooks
The Deputy Prime Minister’s recent Safety Summit underlined the significance of health and safety to the construction industry. BCSA has demonstrated its continuing commitment to good health and safety practice in steelwork construction by commissioning and issuing three new handbooks in its family of health and safety publications. The new handbooks, Health and Safety in the Office, Health and Safety on Site and Health and Safety Guide for Managers and Supervisors, are addressed to individuals working in the steel construction sector. They complement the earlier Health and Safety in the Workshop, which has now been re-issued. The objective behind these publications is that each individual working in the sector should have ready access to information on health and safety as it applies to him or her.

Health and Safety Database
In 1999, with DTI support, BCSA began a project to establish a database of accident statistics for on and off-site steelwork construction activity. The objective was to analyse this information to assess the main weaknesses evident in the industry, and to recommend any remedial measures flowing from the analysis. Approximately one third of all BCSA member companies provided details of all health and safety incidents that they had been required to report over the five years up to October 2000. Information was received on over 450 incidents, with 80% of these from the factory environment, and 20% from on-site.

Although there is no room for complacency, there are aspects in which the sector workforce shows very good health and safety awareness. Indeed, it was apparent that more incidents occur with everyday equipment such as hammers, than with high-technology fabrication or access machinery. Nevertheless, there may be scope to interchange health and safety practices between the site and the factory, to further reduce incident levels. In addition, some changes to the reporting system and feedback mechanism may be indicated by the study findings.

Improving Health and Safety in Loading and Unloading Constructional Steelwork and Off-Site Machinery
Following recommendations from a high-level seminar on health and safety in the sector, twin projects were established, with DTI support, to seek improvements in the health and safety aspects of loading and unloading constructional steelwork, and the operation of major in-factory machines.

Health and safety specialists from within the sector provided a forum for collating and assessing options to improve health and safety in the two target areas of steel construction operations. By pooling concepts from a variety of companies and individuals, it was clear that no one had a monopoly of ideas, but that composite solutions could prove effective. The outcome of these projects has been made available to the sector, and some hardware proposals may be taken forward to trial status within the industry.

Update of Key Steelwork Construction Publications
Work continues on the updating of four key publications in use by the constructional steelwork sector. They include the National Structural Steelwork Specification for Building Construction (NSSS), the Commentary on the NSSS, the Handbook of Structural Steelwork, and Structural Fasteners and their Application. Work to update these publications has been driven by recent and imminent changes to British and European Standards.

The revised Handbook of Structural Steelwork will include a new section of explanatory notes to the new BS 5950-1 and new capacity tables. Similarly, the NSSS will reflect changes to BS 5950-1 and BS 5950-2. The new Commentary on the NSSS is being revised accordingly, but will be published on the BCSA website, www.SteelConstruction.org, instead of in the traditional paper format. Finally, Structural Fasteners will reflect a number of changes in practice and Standards. All four publications should be published in the second half of 2001.
In preparation for planned increases in the scope of the services it provides, Steel Construction QA Scheme (SCQAS) has changed its name to Steel Construction Certification Scheme (SCCS).
The Scheme successfully completed all the re-assessment and surveillance visits programmed for the year 2000. The schedule for 2001 includes more full re-assessments and the consequent additional workload.

The Scheme’s EMS Steering Group has completed the development and introduction of the Environmental Management Systems Certification Service. The Scheme’s EMS Schedule CSQS 505 has been published to provide a structural steelwork specific standard based on ISO 14001:1996. That Schedule is currently being used as a reference document by several companies during the development of their environmental management systems.

On completion of the development of its EMS, the first member company applied for certification assessment during late 2000. As a result of both the Stage 1 and Stage 2 assessments and very prompt, effective responses to the audit findings, the Scheme issued its first Environmental Management System certification in March 2001.

Having completed two Stage 1 and one Stage 2 EMS audits, the Scheme applied for UKAS accreditation assessment during May 2001.

The Certification Board has also authorised the development of a Health & Safety Management System Certification Service to complement those now available for quality and environmental management systems. The Scheme expects to offer H&S certification assessment services later this year.

Although it will soon have three separate, stand-alone, certification services available to the structural steelwork industry, the Scheme recognises the benefits of integrating two or all three (quality, environmental, health & safety) management systems and will publish a Guidance Schedule on this subject later this year.

Two new Workshops were held at the National Motorcycle Museum in March this year. Workshop 1 was designed as an open forum analysis of ISO 9001:2000 which the Scheme’s certified organisations must address within their quality management systems in the next 18 months. Workshop 2 addressed the Environmental Management System requirements detailed in BS EN ISO 14001:1996, as relevant to the structural steelwork contracting industry. Both Workshops were well attended and will be repeated later this year.
The Council meets regularly during the year to guide the activities of the Association and to monitor the work of the main Committees, viz Commercial and Contracts, Process and Technical, Marketing and Membership Services and Finance.

**European Convention for Constructional Steelwork (ECCS)**

The UK was represented at the many meeting of the European Convention for Constructional Steelwork during the year, including the Annual Meetings held in Istanbul, Turkey in September 2000.

**National Dinner**

430 members and guests attended the Association’s National Dinner held at The Savoy Hotel, London on 6 March 2001. The Principal Guest was Ms Patricia Hewitt MP, Minister for E-Commerce at the Department of Trade and Industry. The Association’s President, Mr Steve Fareham, proposed the toast to the Guests. Mr Ian McMillan provided the after Dinner entertainment.

A prize draw took place at the Dinner in aid of Macmillan Cancer Relief, the Association’s chosen charity, which raised £4,300.

**Weekend Conference**

180 members and guests attended the Association’s Weekend Conference which was held at The Dormy, Ferndown, nr Bournemouth during September 2000.

**Annual General Meeting**

The Annual General Meeting of the Association was held on Thursday 12 July 2001 at The Savoy Hotel, London.
Consumption of Steelwork

UK Consumption of Constructural Steelwork

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NOTES
1. Commercial and Public Tonnages were not split until 1990.
2. Commercial Tonnage was also sub-divided into new categories, Leisure and Office in 1990.
3. Other Infrastructure Tonnages not identified separately before 1994.
4. Import Tonnages were not identified separately until 1989, prior to that they were included within the individual sector totals.
5. The 2001 - 2004 figures are forecasts.
6. The figures are in thousand tonnes.

Figures supplied by BCSA and Corus Group plc
BCSA Representation on Other Organisations

**BSI and ISO Committees**
- Construction Industry Annual Assembly
  - Dr D Tordoff
- Committee Representation
  - C J Bowser
  - A J Fairweather
  - Dr R J Pope
  - Dr D Tordoff
- S Williams

**Comité Européen de Normalisation**
- J Evans
- Dr R J Pope
- P J Williams

**Construction Industry Computing Association**
- Dr D Tordoff
- P J Williams

**Construction Industry Research Strategy Panel**
- Dr D Tordoff (per CLG)

**Constructors Liaison Group**
- Mrs M C Rich (per SEC Group)

**Department Of The Environment, Transport and The Regions**
- Constructionline Advisory Group
  - Dr D Tordoff
- Joint Advisory Committee
  - P J Williams

**Engineering Construction Industry Association**
- Health & Safety Committee
  - P J Williams
- Structural Steelwork Sector Committee
  - Mrs M C Rich
- Engineering Forum
  - Dr D Tordoff

**European Coal and Steel Community**
- Consultative Committee
  - Dr D Tordoff

**European Convention for Constructional Steelwork**
- General Assembly
  - President: A F Collins
  - J Locke MBE: Dr D Tordoff
- Executive Board
  - R B Barrett: A F Collins
  - J Locke MBE: Dr D Tordoff
- Joint Commission
  - R B Barrett: Dr D Tordoff
- Technical Board
  - R B Barrett
- Promotion Board
  - G H Taylor

**Technical and Advisory Committees**
- Dr D Anderson
- Dr J Blachut
- Dr A J Brooks
- W Brown
- Dr F S Bulson
- Dr M Chryssanthopoulos
- R N Cox
- Professor J M Davies
- Professor P Dowling CBE
- Dr A S Elahmeh
- S M C Fewster
- Professor J E Harding
- B F Hoppé
- D C Iles
- R P Johnson
- B Kirby
- Dr R M Lawson
- Dr S J Maddox
- Miss G M Mitchell MBE
- Dr D B Moore
- Professor D A Nethercot
- G Newman
- D C O’Leary
- Dr M H Ogle
- A H Pillinger
- Professor R Plank
- Dr R J Pope
- R Preston
- E S Price
- W Ramsay
- A Rathbone
- Professor J Rhodes
- J T Robinson
- Professor J M Rotter
- J C Taylor
- Professor K S Virdi
- A D Weller
- P J Williams
- J C Wilson
- J L Wood
- Dr D H Wright

**International Association for Bridge and Structural Engineering**
- P J Williams

**Specialist Engineering Contractors Group**
- Managing Panel
  - Mrs M C Rich
- Contracts Committee
  - Mrs M C Rich
- European Group
  - Mrs M C Rich

**Steel Construction Institute**
- Council
  - Dr D Tordoff
- Executive Committee
  - President

**Welding Quality Board (TWI)**
- C J Bowser
BCSA Group Structure

**BCSA Limited**

**MEMBERS OF THE COUNCIL**

**Office Bearers**
- S G Fareham, President
- P R Samworth, Immediate Past President
- J W Rankin, Vice President
- Mrs M C Rich, Company Secretary

**Midland and Southern Region**
- Dr P Lloyd, Midland and Southern Region Chairman
- S D Bingham, Midland and Southern Region Chairman

**Northern Region**
- C Twist, Northern Region Chairman
- R M Dewhurst, Northern Region Chairman

**Scottish Region**
- J Sanderson, Scottish Region Chairman
- A S Hayes, Scottish Region Chairman

**Northern Ireland Region**
- S A Gregg, Northern Ireland Region Chairman
- B V McCartney, Northern Ireland Region Chairman

**Bridgework Conference**
- C V Castledine, Bridgework Conference Chairman

**Co-opted Council Members**
- K Anderson, Dr J M Roberts, Vice Presidents

**Committee Chairmen**
- R B Barrett, Process and Technical Committee Chairman
- G H Taylor, Membership Services Committee Chairman

**Director General**
- Dr D Tordoff

**Secretary**
- Mrs M C Rich

**VICE PRESIDENTS**
- J W Rankin
- W L Fletcher CBE
- J A Humphries
- D H Peters OBE
- B D Farmer
- W R Cox
- G C Barrett OBE

**The British Constructional Steelwork Association Ltd**

**DIRECTORS**
- S G Fareham, President
- P R Samworth, Immediate Past President
- Mrs M C Rich, Company Secretary

**HEAD OFFICE**
- D Tordoff, Director General
- D F Bingham, Director of Engineering
- B F Hoppé, Director of Operations

**Manager, Research & Development**
- A J Fairweather BSc ACIG MIAB

**Manager, Technical**
- C J Bowser MBA BSc CEng MIM MIQA

**Manager, Legal & Contractual Affairs**
- Mrs M C Rich, Barrister MSc FCIArb

**Director of Engineering**
- P J Williams BSc CEng MICE MInstMC MIHT

**Director of Operations**
- Miss G M Mitchell, MBE

**Steel Construction Certification Scheme Ltd**

**DIRECTORS**
- P R Samworth
- S G Fareham
- Mrs M C Rich (Company Secretary)

**CERTIFICATION BOARD**
- Chairman of the Certification Board
- D A Woodward

**HEAD OFFICE**
- Scheme Manager
- P R Mould MIQA, Registered Lead Auditor

**Scheme Assessors**
- Dr R Cheesman PhD FIQA MRSC ChChem
- Registered Lead Auditor
- S Mills CEI BA, Registered Lead Auditor
- (IRCA & RAB)
- C J Bowser MBA BSc CEng MIM MIQA
- Registered Lead Auditor

**BCSA Regional Secretaries**

**Midland and Southern Region**
- K A Malby
- 4 Orchard Road, Coalpit Heath
- Bristol BS36 2PB
- Tel: 01454 887624

**Scottish Region**
- S Edmondson
- 7 Cairnhill Avenue, Airdrie
- Lanarkshire ML6 9HQ
- Tel: 07775 612362

**Northern Region**
- Hallidays
- Portland Buildings, 127-129 Portland Street
- Manchester M1 4PZ
- Tel: 0161 228 0500

**Northern Ireland Region**
- T Wylie
- 27 Glenariff Park, Bangor
- Co Down BT20 4UY
- Tel: 028 9146 7454
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