

# SANDBERG

## CURRICULUM VITAE

**Eur Ing SIMON CHRISTOPHER CLARKE**

**BSc(Hons) MBA CEng CSci MIMMM FInstNDT MWeldI  
MICorr AIQA FIAQP MAE MEWI**

**PARTNER CONSULTANCY DEPARTMENT**

### PERSONAL DETAILS

**Name: Simon Christopher CLARKE**

**Address: 5 Carpenters Place  
Clapham High Street  
London  
SW4 7TD**

**Home Telephone: 020 7565 7090**

**Date of Birth: 20 June 1957**

**Place of Birth: Eastleigh, Hampshire**

**Nationality: British**





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## EMPLOYMENT HISTORY

### Professional Work Experience

My most recent work experience has been with Sandberg, based at 5 Carpenters Place, London, SW4 7TD. Sandberg provide a consultancy, investigation and quality assurance service to the Off Shore, Construction and Transport Industries. In the past these have included major projects such as Sizewell 'B' Power Station, Faslane Nuclear Submarine Base, Channel Tunnel and Canary Wharf. I have had projects from all of these concerning the materials involved in their construction. Other types of work undertaken are failure investigations, corrosion problems, specialist investigations, load testing on structures and components, this work has been done both on site and in the laboratory. Many of these jobs have involved litigation and some have required appearances in Court as an Expert Witness. Sandberg were also involved in materials for refurbishment work on buildings/structures of historic note, such as Eros, Albert Memorial, Houses of Parliament, Forth Rail Bridge, etc, all of which I have also worked on.

May 1997- to date     **Partner**

Based in the Consultancy Department, responsible for providing consultancy services to Sandberg's clients and the technical aspects of the Metallurgy Department. Much of my work is concerned with dispute resolution, or litigation, and involves a wide range of materials and processes. These failures may involve plant or machinery in installations both on and offshore, or they be process related such operation equipment or processes that have resulted in some type of failure or accident. These investigations cover a wide range of specialist materials expertise including processing of ferrous and non ferrous metals, service failures of ferrous and non ferrous metals, metallic and paint coating problems, corrosion, welding problems, non destructive testing, etc.

An abbreviated list covering some of the litigation work that I have been involved with is given towards the end of this CV, this work has included investigations into the failure of a winch drum on a fishing vessel, several crane failures (including mobile and tower cranes), engine failures (including a Rover V8 petrol engine and both industrial and marine diesels), failure of the gearbox on a fishing vessel, failure of wire strand ground anchors at Victoria Deep Water Wharf, repairs to failed of a dolphin at Port Kamsa, Guinea, corrosion of a zinc coated profiled steel roof, as well as many other similar jobs. Similar equipment and component failures that have not been involved with litigation, have included fatal accidents involving various racing cars, window failures, and industrial equipment failures such as a grab for an internal gantry crane at a rubbish processing plant and brake shaft failure on a gantry crane.

I have been instructed to produce reports under the new CPR, including commissions as a Single Joint Expert and I have given evidence in Court on several occasions.

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## EMPLOYMENT HISTORY Continued

- May 96-Apr 97      **Senior Associate**  
Duties as defined in my previous roles but taking a more active role as technical consultant with the day management of the laboratory being handled by the Principal Metallurgist. In addition to the litigation work I was also involved in the evaluation of structures after the bomb damage in Canary Wharf.
- Mar 92-Apr 96      **Associate**  
Responsibilities as per my previous role, managing the Metallurgy Department, but extended to taking a more positive role in representing the Firm, including an active role on the Marketing Team.
- Feb 90-Feb 92      **Metallurgy Department Manager**  
Responsible to the Central Laboratories Controller for technical and commercial management of the Metallurgy Department. Duties included: marketing, tenders, maintenance of NAMAS accreditation, acting as an expert witness, writing technical reports, representing the Firm at technical forums and maintaining liaison with clients. Also failure investigations concerning both metallic and non metallic materials and preparing reports, and providing consultancy on material problems relating to major projects both in the United Kingdom and overseas. Technical aspects covered include the assessment of steel/wrought or cast iron structures, such as buildings and bridges, and specifying the non-destructive testing techniques required for finding specific types of defect. Where new inspection techniques were required this would entail writing test procedures, producing calibration/test blocks and training personnel.
- Dec 88-Jan 90      **Deputy Manager Metallurgy Department**  
Responsible to the Department Manager for the day to day operation of the Department. This work including setting up test programmes for failure investigation work, tendering for new jobs, writing and vetting of technical reports and test certificates as well as signing of reports leaving the Department.
- 1986-1988 Employment Abroad (whilst travelling around the world on a bicycle)**
- Sept 87-Feb 88      **Metallurgical Process Controller**  
Johnson Matthey, Sydney, Australia.  
Work included running the Powder Metallurgy Department for two months, supervising staff and advising Senior Management of improvements in operating procedures. Also advising on Continuous Casting, Investment Casting and Chemical Refining practices.
- Oct 86-Feb 87      **Consultant Metallurgist**  
La Prenc, Bombay, India.  
Advising on production methods and design of cast aluminium pistons establishing a Quality Control Laboratory, training personnel, advising customers and giving seminars at customers' factories. Commissioning a computer-controlled ultrasonic piston testing machine.

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## EMPLOYMENT HISTORY Continued

### Previous Professional Experience

Full time employment with Wellworthy (AE) Limited, now part of the Turner Newall Group, who are the major manufacturer of pistons, rings and liners for diesel engines in the United Kingdom. Production carried out at five factories in the South of England using some of the latest techniques and designs available. I was based in the Research and Development Department, Lymington, Hampshire.

#### Jun 83-Jun 86 Senior Quality Control Metallurgist

Duties included providing technical consultancy to Wellworthy customers including problem investigations and recommendations to customer management, training of customers technical personnel in use of computer controlled non-destructive testing equipment, also assessing suppliers' quality control procedures and inspection standards for MOD or Lloyds material approvals.

Jan 81-Jun 83

#### Project Leader

Responsible for qualified laboratory personnel working on failure analysis and material examinations for both in-house work and external contracts under NATLAS certification. Also responsible for the complete revision of the company wide procedures and inspection standards for NATLAS accreditation superseding the MOD approval.

Jun 80-Jan 81

#### Senior Metallurgist

Responsible for training qualified laboratory and inspection personnel in various non-destructive testing techniques and writing company test procedures and inspection standards. Also responsible for establishing control procedures for Plasma sprayed coatings.

Aug 79-Jun 80

#### Research Metallurgist

Material testing and analysis of field failures, reporting recommendations to Senior Management and Board level also technical back up to Control Laboratories following material problems in the factories. These problems included heat treatment of aluminium, cast iron and steel, chromium plating of rings, induction hardening and process control.

### UNDER-GRADUATE EXPERIENCE (Thin Sandwich Course)

Working for Wellworthy (AE) Limited as a Student Metallurgist, I was based at the following places for my six month industrial training periods:

Apr-Sept 78

Foundry Research Department, AE Development, Rugby, Warwickshire. Projects on experimental casting techniques for cast iron from development to production.

Apr-Sept 77

Sand and Centrifugal Casting Foundry Wellworthy, Ringwood, Hampshire. Quality control projects for cast iron pistons, liners and ring parts.

Apr-Sept 76

R&D Metallurgy Department, Wellworthy, Lymington, Hampshire. Working on experimental casting techniques for aluminium pistons.

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## PUBLISHED DOCUMENTS AND PUBLISHED PAPERS

### **APPRAISAL OF EXISTING STRUCTURES Second Edition, Oct 1996**

(An Institute of Structural Engineers Publication)

Review and rewriting of section 6.4 Metals and alloys

### **RESTORATION OF EROS**

Materials World Journal of the Institute of Materials

December 1993

Performance Materials, National Association of Corrosion Engineers Journal

June 1994

Context, Association of Conservation Officers

June 1994

Journal of the Institution of Structural Engineers

August 1994

## **COMMITTEES AND WORKING PARTIES**

BSI Technical Committee WEE/21/7 - Field welding of pipelines, representing the Association of Consulting Engineers, January 1997 onwards.

CIRIA RP 523 Steering Group Paint Systems for the protection of Constructional Steelwork 1995/1996.

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## EXPERT INVOLVEMENTS (Abbreviated List)

McDermott -v- **Friends Provident**<sup>12</sup>  
Wardell Holdings -v- Williams Tarr & **Atlas Building Pilot Design** -v- Styles and Wood  
**Styles and Wood** -v- Lee Green Glass  
Dunn -v- **CDE**<sup>2</sup>  
**Ongur** -v- Tuffs  
Winder -v- Greater Manchester Police & **BMW**  
Seaward Marine -v- **Woodway Engineering**  
HSE -v- **Nuridin and Peacock/ Edmead** -v- **N&P**<sup>2</sup>  
C Leavy -v- **K de Ste Croix**  
Stephenson Clarke -v- **Mirrlees Blackstone**  
**Clayton** -v- Garage  
Belfast City Hospital -v- **Mirrlees Blackstone**  
**Miss A Hill** -v- J Sainsbury  
Young -v- **Wilkinson**  
**Prudential** -v- Metalen Products  
MV Ocean Quest -v- **Finnings**  
Stephens -v- **Bonfiglioli**<sup>2</sup>

**Wren Church** -v- John Laing and others  
British Petroleum  
**Morrison** -v- Macdonalds  
Standard Steamship Ins Co-v- **Factory Mutual Ins Co**  
**Russell Johnson** -v- Seeboard  
**Sophie Crawford** -v- St Pauls Ins. Co.  
Intercon-v-**Queensway Quay Development Company**<sup>2</sup>  
Crown Prosecution Service -v- **Silver**  
B&C Fixings -v- **Pennine Windows**  
Mobil Exxon -v- **PJ Valves Ltd**

Regina -v- **Raymond Ryan**, et al<sup>2</sup>  
Moran/PHLS -v- **Shaefer Ltd/Torre srl**  
**Wombell** -v- Universal Cycles  
**Barber** -v- Moston  
Stellenbosch -v- **Supreme Corq**  
**Ricotta**<sup>2</sup> -v- Abject  
Eyre -v- **Draper tools**<sup>3</sup>  
BBC -v- **Eve Group**<sup>2</sup>  
**Regina** -v- Hunt and Fawley  
LFEPA -v- **Carltonloco, et al**  
Regina -v- **Naylor**, et al  
DTp/Highways Agency -v- **Pell Frischmann**, et al

Leconfield House, Fatality - window failure  
Corrosion - Profiled steel warehouse roof  
Failed glass panel in shop  
Failed glass panel in shop  
Welds on bulk storage fuel tanks  
Personal injury - Failed shop canopy  
Accident - BMW motorbike bearing failure  
Marine - Fishing vessel winch failure,  
Personal injury - Warehouse racking failure  
Fatal accident - Window cleaner fall  
Marine - Diesel engine failure at sea  
Rover V8 engine failure  
HV Generator sets - engine bearing failure  
Personal Injury - Glass bottle failure  
Paint failure - Catering trailer corrosion  
Chemical fire- Paint and structural steel  
Marine - Fishing vessel gearbox failure  
Personal injury - Lorry mounted crane failure  
Vintners Place - Tower crane collapse  
Grangemouth - Fire damaged sphere  
Personal injury - Chair collapse  
Port Kamsar - Damaged Dolphin  
Injury from glass door panel failure  
Injury from glass panel failure  
Corrosion & lead in copper pipe  
Breaking of Peugeot 306 door window  
Failure of self drilling, self tapping screws  
Valves for cryogenic service in high pressure gas processing plant, material dispute  
Corroded shotgun, murder trial -Old Bailey  
Personal injury - Chair collapse  
Personal injury - Bicycle failure  
Fatal car crash investigation  
High loads to extract corks from wine bottles  
Personal injury - fall from roof  
Personal injury - fragment from hammer  
Corrosion of pipework on Ascension Island  
Corrosion on knife - possible murder weapon  
Personal injury - fire truck door lock failure  
Reactivation machining on sub machine guns  
Thelwall Viaduct - failure of roller bearing

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<sup>1</sup> Bold fonts are used to identify instructing party

<sup>2</sup> Jobs where I have given verbal evidence, Court or Tribunal

<sup>3</sup> Single Joint Expert appointment