

## David Duckworth

**Qualifications** Bachelor of Science Honours degree in Geology  
Master of Science Degree in Mineral Exploration and Mining Geology  
Chartered Engineer

**Affiliations** Member of the Institution of Materials, Minerals and Mining

**Year of Birth** 1956

**Nationality** British

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### Current Position at CWA

#### Consultant

David has over 35 years of experience in the minerals and metals industries, working as mining and exploration geologist in Namibia and as a market consultant with various organisations in London. He has been an associate of CWA since 2011, drawing on his broad experiences to provide solutions to shipping problems presented to CWA.

### Specific Expertise and Experience at CWA

The following summary lists some of the projects that David has assisted with or led since joining CWA:

#### Cargoes

Alumina	Auto fluff	Bauxite
Cement	Cement clinker	Coal
Columbite	Copper concentrate	DRI (B)
DRI (C)	Fly ash	Iron concentrate
Iron ore fines	Lead concentrate	Lead/silver concentrate
Limestone gravel	Nickel laterite ore	Petroleum coke
Potash	Pyrites	Pyritic ashes/calcined pyrites
Salt	Sodium sulphate	Steel and steel scrap
Tantalite	Zinc concentrate	

## **Incidents**

Incidents with which David has been involved include:

- Cargoes damaged/contaminated by seawater
- Cargo liquefaction
- Rejection of loaded cargoes
- Damage through incorrect handling procedures
- Valuation of damaged cargoes
- Disputes over the commercial aspects of metal concentrate sales contracts

## **Summary of Previous Employment**

2011-present     **Saint Barbara LLP (London)**

David joined Saint Barbara LLP in 2011 as geologist, market consultant and partner. With his expertise in geology and commodity markets David has been involved in assignments covering review, assessment and evaluation of projects for potential investors, advice on base metal concentrate contracts and commodity market studies.

1990-2011     **CRU International Limited (London)**

During this period, David was a Principal Consultant with the Base Metals Copper Team. His main responsibilities were:

- Overall responsibility for Copper Production Team employing a team of three and publishing three regular products with a turnover of £300k.
- Editor and contributor to the Copper Studies monthly publication with a turnover of £60k/y and 40 subscribers.
- Responsibility for Copper Raw Materials Production Database (CuRMAt) for copper mine, smelter and refinery production data. Contains over 3,000 profiles.
- Providing continuous “expert opinion” within the Group on production of the top 100 copper mines and miners around the world.
- Liaison with other CRU Teams (British Sulphur, Non-Ferrous and Steel) to ensure data consistency and maximum commercial value is derived from the CuRMAt Database.
- Coordination of the collection of key production and consumption data in mining markets.
- Performing detailed analysis and interpretation of data to help generate forecasts for supply, demand and prices.
- Responding to ad hoc client and internal requests for information and opinion in a timely and professional manner.

- Project management to deliver reports to required standards and to budget.
- Ensuring production data presented in company publications is succinct and easy to understand using methodology that is easily explainable to clients by all levels within the Copper Team.
- Undertaking research visits to companies worldwide.
- Attending and presenting at relevant conferences worldwide.
- Leading periodic one-to-one interaction with key clients.
- Creating and building client relationships leading to new product and single client business.
- Assisting the Copper Team in market research on ore, raw materials, refined and semis products.
- Assisting the Consultancy Team with ad hoc projects on mining, smelting and refining.
- Consultant to CRU's copper mining, smelting and refining cost work.

1986-1990      **Roskill Information Service Limited (London)**

During this period, David was a Senior Consultant and his main responsibilities were:

- Compilation of Roskill studies on metals and minerals, including Sodium Sulphate, Barytes, Strontium, Salt, Perlite, Vermiculite, Fluorspar, Kaolin, Aluminium, Bismuth and Beryllium.
- Involvement in all stages of production from initial research to final publication including proof reading.
- Collection and analysis of data from in-house and external sources, libraries and databases.
- Interviewing representatives of UK companies for single client studies.
- Answering technical enquiries from clients.
- Attending conferences.
- Assisting with telephone surveys.
- Author of articles on Salt and Beryllium published in the Mining Annual Review, 1987 to 1990.
- Supervision of junior staff.
- Supervision of office building and services.

1980-1985      **Tsumeb Corporation Limited (Tsumeb, Namibia)**

On graduation, David took up a post in Namibia working as a geologist on an underground base metals mine and also exploring for base metal and gold deposits. His main responsibilities were:

**1. Mining:**

- Underground mapping, stope and grade control.
- Core logging, planning and drilling programmes.

- Interpretation of plans and sections.
- Ore reserve calculations.
- Feasibility studies.

## 2. Exploration:

- Geological mapping.
- Planning and supervision of drilling, geochemical and geophysical programmes.
- Supervision of field crews and camps (up to 30 people).
- Interpretation of data and compilation of reports for management and government.

## Conference Papers Presented

### *Copper Ore Mining and the Global Crisis*

International Copper Ore Mining Congress, Lubin, Poland, 24-26 September 2009

### *Copper market outlook*

MinSouth/IMMM Commodity Day - Copper, 22 November 2007

### *Mining Annual Review*

Author of articles on Beryllium, 1987-1990

### *Mining Annual Review*

Author of articles on Salt, 1987-1990