

Caline Sahyoun

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| Qualifications | PhD University of Birmingham (Chemical Engineering) BEng (Hons) University of Nottingham (Mining Engineering) |
| Affiliations | Professional Graduate of the Institute of Materials, Minerals and Mining |
| Languages | French and Arabic |
| Nationality | British |

Current Position at CWA **Consultant – Minerals Department** **2006 – Present**

Caline has extensive experience in laboratory testing gained during her PhD including: point load strength, comparative grinding tests, magnetic, gravity and flotation separation during her research on a carbonate copper ore.

She is experienced in the design of testwork and the utilisation of specialised laboratory machinery including: induced roll magnetic separator, magnachute, Denver laboratory flotation cell, atomic absorption spectroscopy, Mozley table and Knelson concentrator.

Her analytical skills include statistics and the use of USIMPAC® flowsheet modelling software.

Specific Expertise and Experience at CWA

The following summary lists specific projects handled by Caline since joining CWA:

- Investigation to determine the source of sub-sea rock responsible for causing damage to an oil tanker vessel

- Inspection of samples from a cargo of sulphur and witnessing testing to determine the size distribution, Ukraine
- Attendances in laboratories in Singapore and UK to witness FMP testing on cargoes of nickel laterite and iron ore
- Assessment of the quality of a mine site laboratory carrying out FMP testing, Indonesia
- Opinion on laboratory FMP testing procedure of nickel laterite
- Advice on potential towage of a nickel laterite cargo
- Assisting the Master to ensure safe loading of a nickel laterite cargo, Indonesia
- Witnessed sampling and testing of iron ore cargo, India
- Continuing investigation into appropriate method of testing of a specific iron ore fines
- Assist with ongoing dispute concerning nickel laterite shipment

Publications and Presentations:

“Dynamics of Metals Industry on Sulphur Demand”, Sulphur World Symposium, Amsterdam March 2007

“The Effect of Heat Treatment on Chalcopyrite”, Physical Separation in Science and Engineering, Vol. 12, No. 1, pp. 23-30

“High Powered Microwave Treatment of Carbonate Copper Ore”, European Journal of Mineral Processing and Environmental Protection, Vol. 4, No. 3, pp. 175-182

“The Influence of Microwave Pre-treatment on Copper Flotation Plant Performance”, Journal of the South African Institute of Mining and Metallurgy, Vol. 105, No 1, pp. 1-7

“The Effect of Microwave Treatment on Carbonate Copper Ore”, First Formulation Engineering Conference, University of Birmingham, UK (April, 2004)