

**Daan Matheussen**  
**Director**

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**Qualifications**

University of Witwatersrand, Johannesburg  
1<sup>st</sup> Class Honours degree in Chemical Engineering

Certificate of Merit for outstanding work in 1986 in the Course of Chemistry I Jacob and Pauline Pertz scholarship for academic excellence in 1986

Graduate Record Examination, administered by the Educational Testing Services, USA

TOEFL: Test of English Foreign Language administered by Education Testing Services, USA

**Languages**

Dutch, French, German, Afrikaans

**Date of Birth**

10 November, 1967

**Nationality**

Belgian

**Current Position at CWA**

Daan Matheussen joined CWA in 1992 and became a Director of the company in 1996. Daan has been responsible for the development of high level forensic analysis and data processing skills and heads the QA/IT department. Over the past 10 years Daan has played a prominent role in CWA's major claims work for CWA's marine and energy insurance clientele. He possesses extensive experience of the management of large scale litigation and the co-ordination of multi-disciplinary expert teams. Daan has a long track record in the application of quantitative analysis and large scale documentation processing in the context of major litigation. He has considerable experience of Oil trading activities and applied risk analysis.

## **Specific Expertise and Experience at CWA**

### **Daan's experience at CWA includes:**

- Analysis of technical records to identify the use of oil at a large storage facility over a five month period deploying chemical laboratory analysis reports and operational records, in order to establish quantities of oil misappropriated at the facility under a set of misappropriation rules set by the Court.
- Team leader responsible for the analysis of contemporaneous business records to establish the pattern of trade in large-scale offshore oil trading operations; the analysis done with specialist software, developed in-house.
- Design of scientific and technical investigation into the contamination of food products by a prohibited food dye, the contamination having triggered a worldwide product recall.
- Analysis of the business interruption implications of the rejection of oil cargoes delivered off specification.
- Team leader advising on the pricing and terms of a five-year term contract for the sale of biodiesel produced from Jatropha in the Middle East.
- Technical due diligence study surrounding the acquisition of a multinational speciality food product by a blue chip listed company.
- Analysis of realisable value at auction of vintage publications destroyed by fire in warehouse prior to sale.
- Team leader responsible for the development and implementation of a computerised rating model for leading underwriters of high capital, high hazard oil and gas plant.
- Mathematical modelling of leakage rates and dispersion, for use in hazard analysis and the investigation of incidents.
- Dispersion modelling for detailed atmospheric pollution studies around major industrial plant and urban conurbations.
- Data analysis of plant performance.
- Scientific and market research.
- Analysis of claims paid out by major oil insurers, identification of risk factors in the underwriting of oil refineries and petrochemical plants.
- Detailed investigation into the causation of power station acid smuts emissions incidents.
- The development of a method for the rapid assessment of worst case incidents in refineries and petrochemical plant and the subsequent development of a software package (EML 5.0) tailored to the specific needs of the leading reinsurers of petroleum and petrochemical plant.

- Analysis of business interruption as a consequence of the late delivery of a parcel of oil; loss of cargo through tanker leakage.
- Daan is also responsible for the (extensive) computer-based facilities at CWA and the development of database controls for in-house project and financial management.
- Financial and insurance related risk analysis, working closely with Dr Stephen Satchell of Trinity College, Cambridge: emerging markets, Asian options, UK mortgages analysis.

### **Summary of Previous Employment**

From 1989 to 1992, Daan worked in Johannesburg as a Researcher, Trainer and Programmer in various community-based computer literacy projects. In this function, he was writing customised computer software tailored to specific organisational needs, conducting the subsequent training of users, as well as designing programmes to facilitate statistical sampling as needed for survey research, and co-ordinating nationwide the logistics of actual interviews.

Daan tutored Mathematics at the University of Witwatersrand, Johannesburg, South Africa for a period of two years.

Daan worked for Hoechst South Africa as a summer vacation student and completed the following projects:

An effluent discharge study for a poly-vinyl-acetate plant (1987)

Pollution measurements on a polyphosphoric acid plant (1988)