Stephen A Clark

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Key Skills

- Systematic organization & leadership of projects
- Good practical & problem solving skills
- Broad range of computer skills

Career History

1981 - 1986 Chemical Technician & Section Leader AMTAC Laboratories

1984 - 1984 Process Chemist (on contract from AMTAC) Lucas Aerospace

1986 - 1995 Scientist Greater Manchester Scientific Services

1996 - 1998 Environmental Officer & IPC Coordinator Akcros Chemicals

1998 - 2000 Research on Philippine Reforestation Self Funded

2001 - 2002 Part-time consultant (voluntary) ECOM Ltd

2002 - 2008 Proprietor/ Consultant Ezone Consulting Ltd

2005 - 2008 Various short term contract work incl: Severn Trent Water PLC/LIFE (UK)

2009 - Consultant (on Project basis April & May) AECOM – ENSR (Philippines)

2009-2013 Various short term research projects

Qualifications

Manchester Metropolitan University (John Dalton Faculty)
Batchelor of Science Degree (Bsc Hons) in Applied Chemistry
Royal Society of Chemistry - Certificate in Applied Chemistry
Certificate in Advanced Analytical Chemistry

North Trafford College

Technical Education Council Higher Certificate in Physical Science (HNC)
Technical Education Council Certificate in Science (ONC)

Membership of Professional Organizations

1989 Licentiate of the Royal Society of Chemistry (LRSC)
1992 Graduate of the Royal Society of Chemistry (GRSC)
1994 Member of the Royal Society of Chemistry/Chartered Chemist (MRSC CCHEM)

Recent Training

AutoCAD 2011 – 2 dimensional & 3 dimensional drafting at Microcad (March 2011)
University Seminar series on Carbon Markets- ECO securities and U.P (2009)
UK D.T.I Seminar on Waste management technologies and renewables (2009)

Personal Details

Full UK Driving License, Permanent Resident of the Philippines, Current ICARD (Work Permit)
Interests: archery, swimming, reading, voluntary work, travel, amateur filmmaking, writing, hiking

Company: Amtac Laboratories
Position: Section Leader / Chemical Technician
Dates: **From:** 1981 **to:** 1986
Responsibilities//Key Areas of Work:

Management of the day-to-day running of a busy instrumental laboratory, supervision of two members of staff. Use of Atomic Emission spectrograph, X-ray Fluorescence, and wet chemical techniques for the analysis of metals.

Company: Lucas Aerospace (on contract from Amtac)
Position: Process Chemist
Dates: **From:** 1984 (3 months) **to:**
Responsibilities//Key Areas of Work:

Chemical analysis of solutions used in various processes and recommending necessary adjustments. Inspection of components after processing. Gas analysis from furnaces.

Company: Greater Manchester Scientific Services (GMSS)
Position: Scientist
Dates: **From:** 1986 **to:** 1995
Responsibilities//Key Areas of Work:

Being a senior member of the Environmental Chemistry team I was involved in various areas of work as listed below, spending roughly 75% of time in the laboratory and 25% conducting on-site investigations and consultancy work.
• Ambient Air Pollution monitoring - routine national surveys for acid rain, Nox, lead etc and non-routine
• Investigations e.g. odour problems/ pollution surveys from industrial processes;-on site sampling and lab analysis.
• Health & Safety assessments- work place and personnel monitoring for various industries. e.g.; - welding fume, solvents etc
• Contaminated land projects-site surveys, sampling and analysis.
• Landfill gas monitoring at refuse sites, domestic and industrial properties.
• Stack Monitoring for emissions to air for combustion and other industrial processes. (including Dioxin sampling).
• Materials testing e.g. - concrete, mortars etc
• Technical Support team Member-a team of 8 scientists working with GM Fire service providing expert advice at chemical emergencies and on-site analysis from a mobile laboratory.
• Laboratory Techniques frequently used include-GC/MS, Capillary GC, Ion Chromatography, auto analysis systems, Ion selective electrodes, Infra-red spectroscopy, and various portable instruments for environmental monitoring/sampling e.g.;- FID, Isokinetic dust sampling equipment etc
Other duties included staff training and method development. (GMSS is a Namas accredited laboratory).

Company: Akcros Chemicals *(subsidiary of Akzo Nobel)*
Position: Environmental Officer
Dates: **From:** 1996 **to:** 1998
Responsibilities//Key Areas of Work:

• Emission monitoring of our prescribed processes for a wide variety of pollutants e.g. VOC, Particulates, Phenols, Sulphur Dioxide etc (9 batch chemical plants on site).
• Development of suitable methodologies, evaluation & purchase of appropriate equipment.
• Liaison with various departments, planners, production management, and operators to schedule monitoring program.
• Production of regular reports for senior management providing interpretation & advice.
• Reporting to outside government bodies and regulators.
• Investigation of emission incidents and non-compliances.
• Plume dispersion computer modeling of our emissions to air.
• Support to waste minimization programmes.
• Non-routine monitoring to build understanding of our processes and identify opportunities to utilize abatement technologies to reduce our emissions.
• Effluent/river outlet sampling and evaluation of effluent treatment techniques to ensure compliance with existing and future legislation.
Health & Safety monitoring to assist in risk assessments e.g.-dust, solvent fumes etc

Company: Akcros Chemicals *(subsidiary of Akzo Nobel)*
Position: IPC Coordinator
Responsibilities//Key Areas of Work:

In addition to a number of the above areas the role expanded to include a wider remit:-
• Support to implementing an Environmental Management system for the site.
• Administrative responsibilities to ensure up-to-date traceable recording of environmental data relating to the site.
• Compiling reports to communicate IPC requirements to all relevant personnel.
• Coordinating multidisciplinary teams to prepare proposals to regulators for process changes, new processes etc
• Attendance at seminars & workshops to keep up-to-date with new technologies
An 80% reduction in our air monitoring requirement for the Environment agency was achieved.

Company: Research on Philippine Reforestation
Dates: **From:** 1998 **to:** 2000
Key Areas of Research:

The purpose of the research was in part groundwork for a new organization being set up to fund reforestation projects in the Philippines, and partly academic, to expand my own knowledge of environmental issues and their interactions. Hence the research covered a study into various associated factors for example, global warming deforestation, soil erosion, climate change as a backdrop, and also studies in reforestation techniques and strategies specific to the Philippines. This involved library and internet research, interviews and information gathering from national government agencies, local government implementers, and NGO's involved in conservation/ rehabilitation work. Draft Proposals were also invited from the above for consideration by the foundation. Comprehensive partner network established with agencies and business community.
Another aspect was to identify potential sponsors in various industrial sectors in the UK whose activities have a significant impact on global warming (high carbon dioxide releases) and may wish to offset this by planting trees as a carbon sink, particularly those vulnerable to the forthcoming climate change levy and other environmental taxes. Production of database.

Company: Ecom Ltd
Position: Consultant (part-time)
Dates: **From:** 2001 **to:** 2002
Responsibilities//Key Areas of Work:

Ecom is a new company, established in 2000, developing a new process to deal with organic/ municipal waste, an alternative to landfill or incineration. My involvement has been in researching/ advising the team on process control and analysis requirements including clean-up technologies for various stages of the process. Some limited involvement in the business development. Precise details of the process are subject to a confidentiality agreement.

Company: Ezone Consulting Ltd
Position: Proprieter / Consultant
Dates: **From:** 2002 **to:** 2008
Responsibilities//Key Areas of Work:

Set up the company in 2002 as an environmental consultancy specializing in Indoor Air Quality / Sick Building Syndrome Investigations. As a small company my involvement spanned all areas, from publicity & marketing, financial control, equipment selection as well as carrying out the air monitoring investigations and report preparation.

In 2004,started to develop some expertise in Renewable Energy Technologies, including training in RET Screen computer models (for pre-feasibility studies) via United Nations Environment Programme sponsored workshops at the University of Twente in Holland.

Short Term Contracts: 2005-8
Included:

Severn Trent Water PLC: - as part of the environmental team, monitoring methane at waste disposal sites, water sampling etc

Life (UK) – as a statistician, analysis of their virtual call centre records to identify trends over time and help to develop strategies for their national advertising campaigns, staffing levels, etc

Company: AECOM ENSR (Philippines)
Position: Consultant (project Basis)
Dates: **From:** 2009 **to:** (April & May)
Responsibilities//Key Areas of Work:

Short term contract working on a transfer of ownership of a geothermal power plant in the Philippines. Scope of work was to undertake a health & safety audit and inspection of the plant areas and observation of staff working practices. This included interview with staff, review of health & safety systems and standards at the site, ocular inspection of plant areas and staff at work, photo and video logs compiled to illustrate findings.