



PRODUCT/SERVICE INFORMATION FOR SATS LTD - where science and technology matter.

- The number one scientific and technology solution provider in Africa, the Middle East and the UK.
- Based in the UK
- "If we cannot provide a solution, we will find somebody that can."
- "But we will come up with practical, workable solutions."
- Partnerships/multidisciplinary member network
- Consultants you can count on.
- Where science and technology matter.

We appreciate your interest and look forward to serving your needs, NOW and in the FUTURE. For further information about the company or for information regarding the company's services please contact either Mohammed Adam Ali or Rehan Beeker on the details below:

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<p><b>Frank Ibe PhD, MRSC, CChem, CSci, A.I.S.T</b></p> <p>Consultant</p> <ul style="list-style-type: none"> <li>• Quality Systems (i.e. ISO 17025, ISO 9001 &amp; ISO Guide 43 (ILAC-G13))</li> <li>• Food Safety and Quality</li> <li>• Analytical Method Development and Validation</li> <li>• Analytical Quality Control and Training</li> <li>• Hyphenated Chromatographic Techniques</li> <li>• Pesticides and Mycotoxins Analyses</li> <li>• Spectroscopic &amp; Physical Methods of Chemical Analysis</li> </ul> <p>Tel: +44 (0) 7821431560 E-mail: info@satsltd.com</p>	<p><b>Prof Peter J. Baugh PhD, FRSC</b></p> <p>Consultant</p> <ul style="list-style-type: none"> <li>• Environmental Analytical Chemistry</li> <li>• Analytical Method Development and Training</li> <li>• Environmental MS Applications</li> </ul> <p>Tel: +44 (0) 7790798989 E-mail: info@satsltd.com</p>
<p><b>Prof Chris J. Smith PhD, MIBiol, CBiol, CChem, FIFST, CSci</b></p> <p>Consultant</p> <ul style="list-style-type: none"> <li>• Food Science and Technology</li> <li>• Environmental Quality &amp; Food Safety</li> <li>• Quality Control Systems</li> <li>• Molecular Biology, Food Analysis, Photochemistry and Colloid Chemistry</li> <li>• Intellectual Property rights and Patenting</li> </ul> <p>Tel: +44 (0) 7713141079 E-mail: info@satsltd.com</p>	<p><b>Steve Chapman BSc (Hons)</b></p> <p>Consultant</p> <ul style="list-style-type: none"> <li>• Quality Control Systems</li> <li>• Portable site monitoring and sampling devices</li> <li>• Laboratory IT</li> <li>• Troubleshooting Software and Network problems</li> <li>• Software developer &amp; practical LIMS implementation</li> </ul> <p>Tel: +44 (0) 7786696086 E-mail: steve.chapman@satsltd.com</p> <p><b>Prof Graham. A. Bonwick PhD, MIBiol, CBiol, MIFST</b></p> <p>Consultant</p> <ul style="list-style-type: none"> <li>• Environmental Quality and Food Safety Assessment</li> <li>• Antibody Production and Immunoassay Development</li> <li>• Stress and Pollution Biomarkers</li> <li>• Contaminant Ecotoxicology</li> <li>• Science Communication</li> </ul> <p>Tel: +44 (0) 7971059997 E-mail: info@satsltd.com</p>

# Scientific & Technology Solutions

## Introduction to our Services

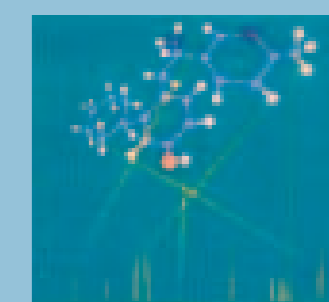
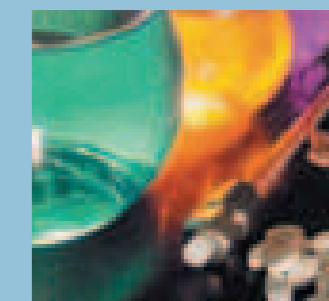
SATS LTD is a company set up to provide technical solutions by provision of information, advice and scientific/technical based services. Founded on high quality and specialisation under contract to individuals, companies, and organisations particularly from overseas (Africa and the Middle East). The company is based in the UK. It has a commitment to quality and distinction in the development and delivery of dependable, high quality solutions, which serve worldwide market needs.

Our Services are aimed at:

- Analytical Services
- Research
- Training
- Instruments
- Technical Support
- Method Validation
- Method Development
- Information Technology
- Communication Technology

Fields of expertise:

- Environmental
- Forensic
- Chemical and biological
- Petrochemical
- Pharmaceutical & Biopharmaceutical
- Medical
- Metal and Mining
- Agricultural
- Biotechnology
- Information Technology
- Communication



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## Analytical Services

- Chemical analysis; GC, GC-MS/MS, ICP-MS, LC-MS/MS, HPLC, UV-Vis, FT-IR, AAS, XRF, ICP-OES
- Scientific and medical instruments; major international companies (e.g., Agilent Technologies, Perkin Elmer, Varian, Shimadzu, Varian, Waters, Thermo Electron Corporation, Bruker Daltonics)
- Chemicals (organic chemicals, analytical reagents, functional compounds, biochemicals, standard materials ... etc); consumables; apparatus.
- Training; method development, analytical problem solving and troubleshooting, software operation, instrumentation and maintenance.
- Studying, planning, supplying and setting up environmental, educational, research and medical laboratories.

## Oil and Gas Production Chemistry and Chemicals Analysis

- Crude oil
- Refinery products
- Fuel additives and lubricants
- Organic Geochemistry
- Plastics, Polymers and Rubber
- Surfactants and Detergents
- Agrochemicals including pesticide degradation studies
- Essential Oils

## Environmental Analysis

- Metals analysis (AAS, ICP-OES, ICP-MS)
- Inorganic analysis
- Organic analysis (HPLC, GC-FID, GC-MS, HS-GC-FID, GC-MS/MS)
- Asbestos analysis
- Gas analysis

## Environmental Services that can be offered include:

Provision of a full spectrum of Environmental Consultancy Services, ranging from initial desk studies and risk assessments through to full detailed remediation design and supervision. A full working knowledge of International legislation and guidelines ensures that the reports and remedial recommendation are totally compliant with statutory requirements.

- A Tailored Package of Specialist Services
- Oil Spill Investigation and Remediation
- Environmental Impact Assessments and Audits
- Airborne Emission Studies
- Waste Water Management
- Waste Water Treatment Technology
- Soil and Ground water
- Remediation of Contaminated Sites
- Sewage Sludge
- Recycling Technology

## Consultancy services

- Provide marketing channel between the British chemical industry, and selective end user markets, agencies and consultants from overseas.
- Providing a scientific and technical consultancy to a range of industrial sectors, expert advice and training for analytical services, and providing the solution needed to meet growing requirements of life science, industrial, and environmental sectors.

## Partnerships/Multidisciplinary Member Network

Training packages will be carried out in collaboration with Analytical Methodology Centre (Prof Peter Baugh; [www.analyticalmethodologycentre.co.uk](http://www.analyticalmethodologycentre.co.uk)), Hall Analytical Laboratories Ltd Services (Keith Hall; [www.hallanalytical.co.uk](http://www.hallanalytical.co.uk)) and University College of Chester. The training will encompass a blend of core and option modules, ancillary training seminars and tutorials, with an emphasis on problem solving and industrially significant research projects (e.g., of short course modules);

- Analytical methodology and Instrumentation, GC-MS, GC-MS/MS, LC-MS/MS, (An Introduction to Mass Spectrometry; choosing a Mass Spectrometer; the right tool for the job, MS/MS Analysis and Interpretation; the key to structure elucidation, Application of Mass Spectrometry in Environmental Analysis).
- Petroleum chemistry, Detailed analysis of Petroleum Hydrocarbons in the environment.
- Proteomics and Post-Translational Analysis (ESI, ESI-MS/MS, capillary LC, MALDI, MALDI-MS/MS, 2D-gel analysis, digestion strategies and sophisticated database searching), Molecular Graphics and Simulation of Biomolecules.

## Quality Standards

### ISO 9001:2000

Quality is of paramount importance to any business, organisation and/or government department. ISO 9001:2000 is the most successful Standard in ISO (the International Organisation for Standardisation) history and is accepted worldwide. The ISO 9001 Standard lays down the requirements of a quality management system (QMS) so as to consistently meet customer requirements and aims to enhance customer satisfaction.

ISO 9001:2000 Quality Systems is a flexible system that any organisation or government department can adapt to help guarantee the quality its customers expect. ISO 9001 will help improve quality and make sure that the services provided meet customer requirements.

### ISO 17025:2005

ISO 17025 contains the requirements that testing and calibration laboratories have to meet if they wish to demonstrate that they operate a quality system, are technically competent and are able to generate technically valid results. ISO 17025 replaces ISO/IEC Guide 25 and EN 45001. This Standard is now used to assess a laboratory's competence for the purposes of accreditation.

Accreditation to ISO 17025 specifically addresses the establishment of traceability for measurements, as well as requiring a range of other technical and management requirements including:

- using validated methods of analysis;
- using internal quality control procedures;
- participating in proficiency testing schemes;
- and
- becoming accredited.

There are increasing burdens on organisations, companies and departmental governments to meet regulatory, trade and quality requirements. This is endorsed by the international accreditation standard ISO/IEC 17025, as a basis for laboratory accreditation.

## Training in Quality Issues

A range of courses within the training programme will be designed to meet the increasing need for laboratory managers, analysts and technicians to demonstrate competence and to keep abreast with quality assurance issues and practices.

SATS Ltd recognises that the needs of each individual company may differ and thus a customised solution is often required. SATS can provide a course on analytical quality control and assurance to meet in-house training needs. Such courses can be run abroad or in the United Kingdom.

The courses will provide an introduction to quality systems appropriate for use in a testing laboratory. The main standards in use: GLP, ISO/IEC 17025 and ISO 9001 will be described and their selection and implementation discussed. The similarities and differences will be highlighted.

Tailor-made courses can also be provided in the following areas:

- **Traceability in Chemical Testing**
- **Statistics for Analytical Chemists**
- **Statistics and Experimental Design for Biological Scientists**
- **Principles and Practice of measurement uncertainty in chemical testing laboratories**
- **Method Validation**
- **Laboratory Management – Role of the Quality Manager and technical management**
- **Laboratory Internal Audit**

## Using its multidisciplinary member network, the company can provide:

- Environmental monitoring
- Pesticides
- Laboratory Assessment and Accreditation
- Provide expert analysis and advice
- Help solve complex problems
- Contract and/or Sponsored Research
- Technology Transfer
- Contract Advice
- Bio-Technology
- Agriculture and Horticulture
- Chemical and process manufacturing industries
- Comprehensive range of pharmaceutical analysis