

INSTRUMENTATION

Gas, Liquid and Droplet Countercurrent Chromatographs
Setaram Modular TGA/DSC/DTA/TMA (up to 1700 Celsius)
Setaram micro DSC III microcalorimeter (with batch and continuous flow cells, heat capacity and flow mix cells)
Two (2) Gamry high sensitivity modular electrochemical workstations for electrochemical and corrosion measurements
Taylor-Aris equipment for diffusion measurements
Langmuir-Blodgett Surface Trough
NMR Spectrometers : 300, 400 and 600 (cryoprobe) MHz Bruker Avance DRX
FTIR; ATR FTIR; Diode-Array and UV-VIS Spectrophotometers
Nuclear Quadrupole Double Resonance Spectrometer
GC- and LC-Mass Spectrometers
Rapid Stopped-flow Kinetic Spectrophotometer
Jasco Model J-720 Spectropolarimeter
Perkin-Elmer Elan 9000 Inductively Coupled Plasma Mass Spectrometer
Veeco Multimode V Atomic Force-Scanning Electrochemical/Tunneling Microscope
Olympus Phase Contrast Microscope
Nano ITC Isothermal Titration Calorimeter
Parr Bomb Calorimeter
Gallenkamp Furnace
Barnstead thermolyne furnace

CONTACT

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UWI
ST. AUGUSTINE
CAMPUS

FACULTY OF
**SCIENCE &
TECHNOLOGY**
DEPARTMENT OF CHEMISTRY

**RESEARCH CONSULTING AND
ANALYTICAL SERVICES**



GENERAL INFORMATION

The University College, established in 1948 at Mona in Jamaica, was the first campus of the University of the West Indies. The St Augustine, Trinidad campus was established in 1961 and Cave Hill, Barbados in 1963. The Open Campus was established in 2008. These campuses provide a network of professionals, instrumentation and workspace where academic-led research can provide timely, relevant solutions with national and regional impact.

The UWI seeks to position itself as a service oriented institution involved in demand-led research, as well as efficient resource use and increased employee engagement. The Department of Chemistry can provide analytical and technical consulting services geared towards problem-solving in academia and industry to improve your project and proactively circumvent performance issues.

The Department of Chemistry Research Consulting and Analytical Services delivers:

- A point of contact to a cadre of highly trained and experienced professionals
- State of the art analytical instrumentation
- Quality Assurance
- Customer Service



AREAS OF EXPERTISE

- Environmental monitoring
- Air quality
- Agriculture and food security
- Petroleum products
- Alternative energy
- Biosensor technology
- Pharmaceuticals and drug synthesis
- Natural products chemistry
- Materials chemistry
- Corrosion science
- Spectroscopy
- Waste management
- New product/process development
- Proposal writing and grant winning

CORE SERVICES

Chemical Analysis

- Structure elucidation and chemical identification
- Determination of impurities and contaminants
- Extractables and leachables studies
- QC methods and process validation methods
- Classical trace analysis: Environmental samples, food, drugs, industrial and commercial products, gas samples, petroleum products
- Volatile organic compounds, residual solvents

Microscopy and Surface Analysis

- Surface properties
- Particle properties
- Analytical imaging applications

Glass Blowing Services

- Custom design
- Design consulting

Consultancy Services

- Grant winning for project implementation and research activities
- Advice on research study design and implementation
- Chemical education research and consultation
- Workshops and short courses (advanced analytical techniques, non-routine analytical services)
- Laboratory planning and design

Didn't find what you were looking for?
Please consult us to see how our expertise can be applied to your project.