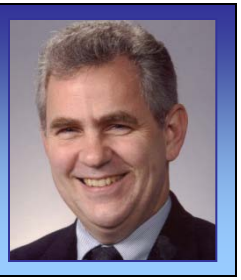
CHEMICAL SCIENCE AND TECHNOLOGY LABORATORY

Willie E. May
Director

Neil Alderoty
Assoc. Director

Richard Cavanagh
Deputy Director



CSTL

Biochemical Science

L. Locascio, Chief

- DNA Measurements
- Bioassay Methods
- Macromolecular Structure and Functions
- Cell Systems Science
- Multiplexed Biomolecular Science
- Applied Genetics

Chemical and Biochemical Reference

C. Gonzalez, Chief

- Chemical Reference Data
- Computational Chemistry
- Combustion and Kinetics

Process Measurements

M. Tarlov, Chief

- Fluid Metrology
- Process Sensing
- Thermometry
- Pressure and Vacuum
- Nanoscale and Optical Metrology

Surface & Microanalysis Science

J. Small, Chief

- Microanalysis Research
- Surface & Interface Research
- Analytical Microscopy

Thermophysical Properties

D. Friend, Chief

- Thermodynamics Research Center
- Experimental Properties of Fluids
- Theory & Modeling of Fluids

Analytical Chemistry

S. Wise, Chief

- Inorganic Analytical Metrology
- Organic Analytical Metrology
- Gas Metrology

Organized by Discipline …

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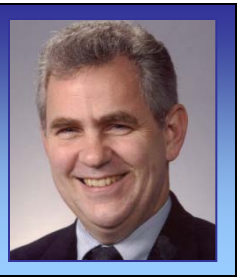

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Measurement Capability Areas

- Analytical spectroscopy
- Biocatalysis
- Bioprocess measurements
- Biospectroscopy
- Cell biology
- Chemical sensing
- Computational chem/phys
- Cryogenic physics
- DNA metrology
- Electrochemistry
- Gas metrology
- High sensitivity/throughput analysis
- Kinetics/equilibria
- Mass spectrometry
- Nanometrology
- NMR spectroscopy
- Nuclear analytical chemistry
- Optical probes
- Optoelectronics
- Particle analysis
- Particle manipulation
- Scientific database management
- Separation science
- Surface analysis
- Temp, pressure, flow metrology
- Thermophysics
- X-ray crystallography