NASA's Corrosion Technology Laboratory, NE-L2

The Corrosion Technology Laboratory is a multifaceted capability that conducts applied research of materials; develops new corrosion detection and control technologies; investigates, evaluates, and determines material performance; provides consulting, testing and qualification services (through our support contractor); and participates in educational outreach activities in the field of material degradation and behavior in different environments.

SLSL Room 132

- Wet chemistry lab
- Electrochemistry; direct current electrochemical experimentation and analysis (direct current methods and electrochemical impedance spectroscopy)

SLSL Room 136

- Field emission scanning electron microscopy; energy-dispersive spectroscopy; Argon ion cross section polisher.

SLSL Room 143A (Accelerated Weathering)

- Accelerated Weathering Laboratory: Two salt fog chambers; QSUN and QUV chambers; Salt fog testing capabilities and weatherometer.
- Sample preparation equipment
- Coating testing: Taber abraser, adhesion, gloss, colorimeter, and others.

SLSL Room 140A (Photo-Documentation)

- State-of-the-art cameras and microscopes to document corrosion and corrosion processes.

Beach Corrosion Test Site (K8-0600)

- Most corrosive site in North America (qualifies as accelerated testing), including a full complement of configurable exposure stands, a test area for reinforced concrete, and a weather station supplying parameters to correlate with collected corrosion data.
- Seawater immersion tank with salt spray capability.

Paint Shop (LETF area)

- Coating application, evaluation, inspection, and testing; sample preparation; and paint staging
- Precision cleaning (Blast cabinet) and sample preparation for coating evaluation.