

# Systems Analyze Water Quality in Real Time



***Kennedy Space Center***

***ASA Analytics Inc.  
Waukesha, Wisconsin***

## **Originating Technology/NASA Contribution**

- ◆ Growing plants in space presents unique challenges, including water limitations and soil particles floating in microgravity
- ◆ Many NASA projects have focused on developing and improving hydroponic methods of plant cultivation for use in space



## **Partnership**

- ◆ Through Small Business Innovation Research (SBIR) funding, Biotronics Technologies Inc. developed a process analyzer for providing real-time detection of nutrients, organics, and metals in hydroponic solutions
- ◆ Company researchers licensed the NASA-derived technology and formed ASA Analytics to pursue commercial applications

## **Product Outcome**

- ◆ The original process analyzer is the core of the company's ChemScan product line
- ◆ More than 500 analyzer systems monitor water and wastewater treatment processes in cities around the world
- ◆ The company claims 40-percent compound annual growth as a result of the technology