Fact Sheet

Small Business Innovation Research, 1995 Program

TITLE	PARTNER	OBJECTIVE	FUNDING
Phase I: In-Situ Electronic Sensors to Determine Analytes in Cold Regions Soils	Phionics, Inc.	To develop specific ion sensors that will work reliably in subfreezing environments to allow remote sensing of contaminants, microbial substrates, and their intermediates in soils. These sensors are intended to be used to monitor treatment of contaminated sites.	$67,650.
Phase II: Field-Portable Reflectance Spectrometer	Analytical Spectral Devices, Inc.	To build a lightweight, cold-weather-operable, field-portable spectrometer to measure spectral reflectance, using ambient solar illumination, of natural and synthetic materials. This instrument is intended to be used for applications such as aircraft and satellite sensor calibration, studies of vegetation pollution sensitivity, and evaluation of archaeological artifacts.	$350,000.
Phase II: An Optical Instrument to Measure Cloud Liquid Water Content and Droplet Spectra	Stratton Park Engineering Company, Inc.	To build a new optical instrument for measuring liquid water content and drop spectra. This new instrument is intended to be used for ground-based measurements of a liquid water content and drop spectra to measure icing conditions at airports and on mountain tops.	$180,694.
Phase II: Submersible Ice Spectroradiometer	Analytical Spectral Devices, Inc.	To build a dual spectroradiometer detector array-based instrument. This instrument will be used to measure light transmission through sea ice in Arctic regions, and also will allow optical measurements of sea ice under cloudy and partly cloudy conditions.	$167,857.

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March 1995

US Army Corps of Engineers
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