1st Workshop on Harsh-Environment Mass Spectrometers February 21-23, 1999; St. Petersburg, FL

Program

Sunday, February 21

7:00 p.m. Informal reception at Moon over Water Restaurant, St. Petersburg

Monday, February 22

8:50 a.m.	Opening remarks Peter Betzer, Chair, Department of Marine Science, USF
9:00	Mass Spectrometer on an Autonomous Underwater Vehicle (AUV)" Tim Short, USF
9:20	"Mass Spectrometers aboard US Navy Submarines: Will Yesterday's Solutions Solve Tomorrow's Problems?" John Callahan, NRL
9:40	"ICP-Mass Spectrometer: Extended At-Sea Trials" Alan Volpe, LLNL
10:00	Break- Refreshments Provided
10:20	"The Road to Miniaturizing Vacuum Pumps" Woody Weed, SNL
10:40	"Mass Spectrometry in Harsh Environments: The Use & Abuse of MS Techniques" David Koppenaal, PNNL
11:00	Lunch Break
1:00 p.m.	"Miniature Time-of-Flight Mass Analyzers for Remote Sensing of Biochemical Agents" Tim Cornish, APL
1:20	"Miniature Mass Spectrometer-Based Sampling System for In Situ Measurement of Dissolved Gas, Solutes and Proteins present in Marine Waters" Steven Smith, JPL

1:40	"A Transportable Ion Trap Secondary Ion Mass Spectrometer for Munitions Assessment" John Olson, INEEL
2:00	Break
2:20	"Quadrupole Ion Traps: Miniaturization and Mass Spectrometer Arrays" Ethan Badman, Purdue Univ.
2:40	"Current and Future Applications of Mass Spectrometric Analyses in Non-Traditional Environments" Chuck Wilkerson, LANL
3:00	Break
3:30	We will provide dinner Monday evening for those willing to brave a cruise on the Research Vessel (R/V) Suncoaster, owned by the Florida Institute of Oceanography and routinely used by the USF Department of Marine Science. The trip into Tampa Bay begins at 3:30 p.m. and we should return by around 7:00 p.m.Excursion and Dinner

Tuesday, February 23

9:00 a.m.	"Underwater MS: Making more Scents" David Fries, USF
9:20	"A Mini-Ion Cyclotron Resonance Mass spectrometer with Portable Potential"
9:40	"Laser Time-of-Flight Mass Spectrometry for Planetary Exploration" Will Brinckerhoff, APL
10:00	Break
10:20	"Fourier Transform Non-Destructive Detection in Quadrupole Ion Traps" Garth Patterson, Purdue Univ.

10:40	"Mass Spectrometric Profiling of the Lower Atmosphere: Go Fly a Kite" Steve Balsley, Sandia
11:00	"Ruggedized Time-of-Flight Mass Spectrometer for Trace Gas Analysis" Marc Gonin, University of Houston/IonWerks
11:20	"Closing Remarks" David Fries and Tim Short, USF