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Livermore Instruments Seeks Collaborators

Livermore Instruments Inc. (LII) is seeking collaborators to apply its field-leading technologies to interesting scientific and technological problems. LII was formed to bring aerosol analysis to nontraditional fields by commercializing Single Particle Aerosol Mass Spectrometry (SPAMS). SPAMS constitutes a revolutionary improvement in aerosol detection and analysis over competing technologies and is also a simple method for collecting mass spectra rapidly from real-world samples. Development has begun on the company's flagship SPAMS 3.0 product which will be capable of collecting mass spectra from 1000 particles per second.

A SPAMS 3.0 is unique in its ability to automatically, detect, identify and quantify aerosol particles sampled directly from the environment. Those particles may already exist in the aerosol phase or may be aerosolized in the course of the application for example being entrained from a surface or nebulized from a suspension. The SPAMS 3.0 can identify those particles from a library of mass spectra that can be constructed from test data or can be used to determine their chemical compositions individually or in aggregate. Because a separate mass spectrum is collected from each particle, particles of interest can be detected even when found in a large background of confounder particles. Alternatively, as a mass spectrometer, a SPAMS 3.0 can collect mass spectra of real, environmental samples rapidly and automatically.

SPAMS is a platform technology and can be implemented in a wide variety of applications with the primary modification being the alteration of the particle pattern recognition library. LII seeks collaborators at all points in the commercialization process, from research scientists interested in performing curiosity-driven research to companies for whom a SPAMS 3.0 fills an urgent need. The company is open to all possible forms of collaboration from providing advanced prototype instruments to research to developing value-added reseller or application-specific reseller arrangements with interested companies. We are willing to work with entrepreneurial scientists seeking to prove out applications in the laboratory prior to spinning off a private company to market them. We can be contacted at the information above.