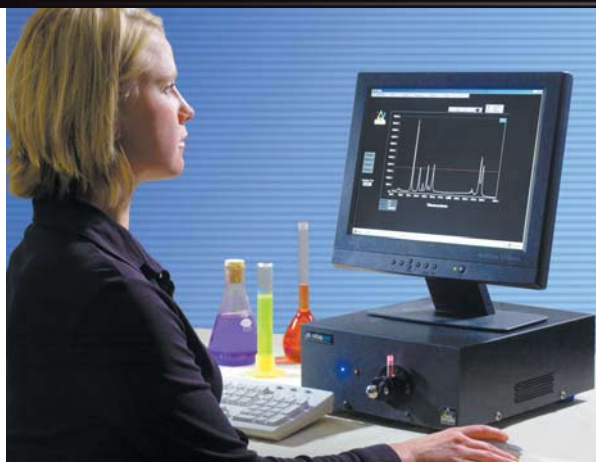


**Looking for something NEW to teach?**  
**Need textbook results fast?**



## Add Raman to your lab!



### Easy to use...

*"We have used the Delta Nu Raman Spectrometer in our quantitative analysis, instrumental analysis, and physical and organic chemistry labs. It is extremely easy to use and obtains very good results within the quoted specs. It is so easy to use that students use it instead of the IR spectro-photometer. We have used it for solids, liquids, and films with excellent results. We are extremely satisfied with the instrument and will expand its use this semester."*

—Leon L. Combs  
 Kennesaw State University

## Advantage 633™

### Raman System

Delta Nu announces the Advantage 633 Raman system. It's perfect for academic settings and comes complete with:

- compact, sensitive and versatile Raman spectrometer
- computer with flat panel LCD monitor
- easy to use software
- complete package of accessories

*and best of all ... prepared labs!*

Easily demonstrate topics in analytical, physical, inorganic and organic chemistry. Choose from pre-tested experiments, each with instructor and student versions. Examples include:

- group theory and vibrational spectroscopy
- periodic trends using Raman spectroscopy
- adsorption isotherms using SERS
- instrumental analysis: ethanol & water

### Nanotechnology...

Introduce your students to nanotechnology! Use the Advantage 633 as a tool to teach students about Surface Enhanced Raman Scattering (SERS). See our SERS lab on our web site at <http://www.deltanu.com/labs/dnlab3.pdf>. This lab uses nanoparticles to find the isotherm for adsorption of pyridine onto silver surfaces. The fluorescence quenching properties of surfaces solves this common interference found in Resonance Raman scattering. See our example of nanomolar methylene blue. Without the SERS effect only fluorescence is visible.

#### Applications Series: #6 – Surface Enhanced Raman Scattering

