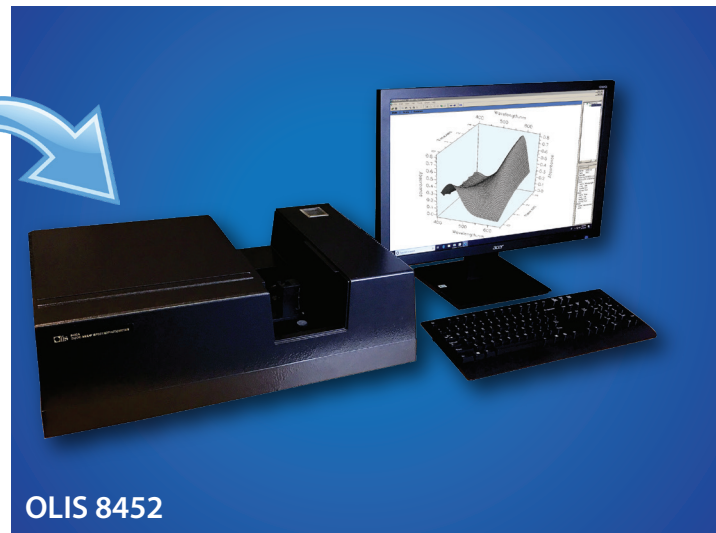


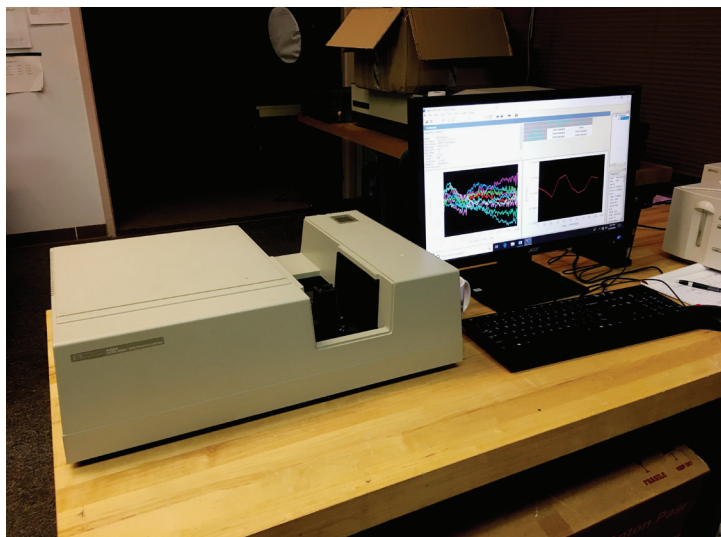


Upcycling the Agilent 8453 and HP 8452 UV/Vis Spectrophotometers





OLIS software, Win 10 compatibility and a valued, trusted UV/Vis spectrophotometer



Original HP 8452 with **OLIS SpectralWorks** software.



There is no downside to replacing ChemStation and the original computer with OLIS' Win 10 computerization. The solid-state design makes these instruments reliable for many decades. And their excellent optical performance makes them higher quality choices than most brand-new alternatives.

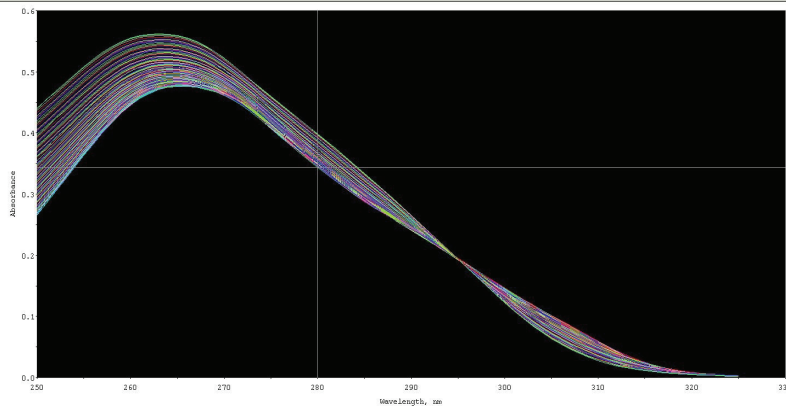
If you trust your instrument's reliability, you can choose upcycle only the computerization. Otherwise, we advise a refurbishment, which brings the instrument to 'as new' performance and transfers warranty and support to us.

OLIS software was never intended as a modern version of ChemStation and does not include the diagnostics module. Alternative means of assessing instrument performance are used.

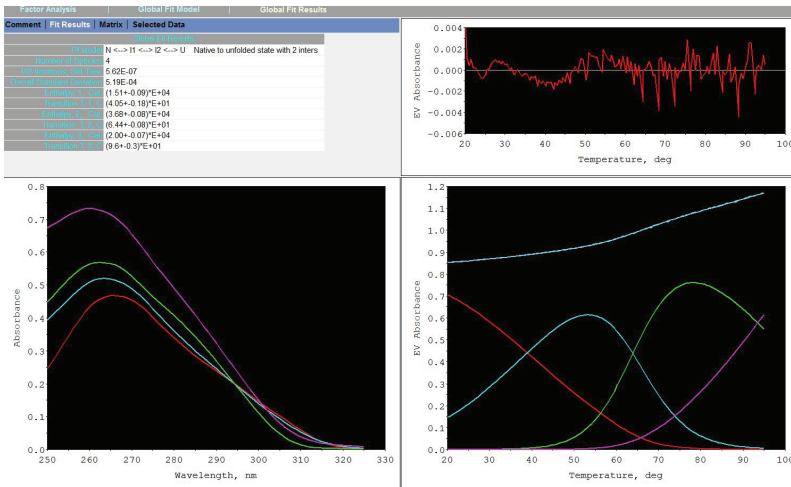


The first generation OLIS software for the HP 8452 was written in 1980s. Support from Hewlett-Packard at the time allowed us to be successful including control of third party and HP accessories as well as the UV/Vis itself. Today's **OLIS SpectralWorks** is fully Win 10 compatible with all the scope of our newest programs.

OLIS computerization of the model 8453 dates to the 2010s. This data acquisition/instrument control software – **OlisWorks** – does not control Agilent accessories but does support today's new Peltier cell holders by Quantum Northwest as well as the full potential of the diode array itself.



Shown here is a two dimensional presentation of thermal melt of nucleic acid in **OLIS GlobalWorks**; this spectra was acquired by an OLIS upcycled HP 8452.



The graphic below shows the result of these data analyzed using a 4 species sequential, i.e. A->B->C->D, fit in **OLIS GlobalWorks**.

OLIS GlobalWorks is included with both models for presenting, analyzing, and handling 2D and 3D data files. You can do all of the processing within this powerful data fitting module, plus export to csx, jpg, Excel and more.

An April 2019 paper citing the OLIS upcycled HP 8452

Ursidae: The Undergraduate Research Journal at the University of Northern Colorado

Volume 6
Number 2 McNair Special Issue

Article 4

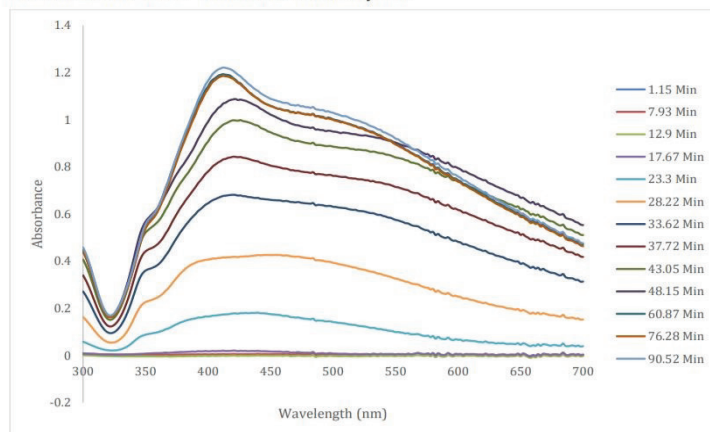
April 2019

Kinetic Study of Silver Nanoparticle Formation

Steven A. Diaz
University of Northern Colorado, diaz4471@bears.unco.edu

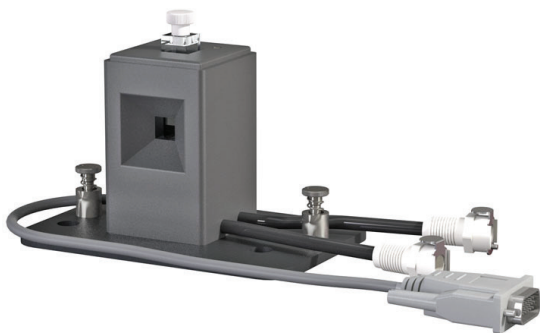
Diaz: Kinetic Study of Silver Nanoparticles

Figure 1. A series of spectra obtained during a synthesis of silver nanoparticles using $1.00 \times 10^{-3} \text{ mol} \cdot \text{L}^{-1}$ silver nitrate and $9.86 \times 10^{-4} \text{ mol} \cdot \text{L}^{-1}$ sodium citrate tribasic dihydrate.

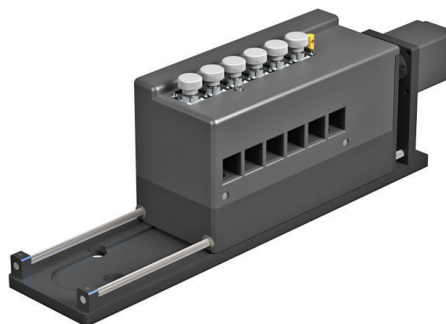


Add thermal studies with a modern Peltier cell holder

We have partnered with Quantum Northwest to provide these accessories for your upcycled instrument, controlled via **OLIS SpectralWorks** and **OlisWorks**.



Versa 20/8452 (-40°C to +105°C).



qCHANGER 6/8452 6 cuvette changer.
(-15°C to +110°C).

Both of these Peltiers are compatible with the 8452 and the 8453.

**Contact OLIS to upcycle your 8452/8453,
or to purchase a complete system from us!**

Send us an email at sales@olisweb.com or call us today (706) 353-6547.