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Advanced Chemistry Development, Inc., Unifies the Processing of XRPD, Thermal Analysis, and Other Analytical Techniques with ACD/Curve Manager Version 8.0

Toronto, Ontario, March 8, 2004 Advanced Chemistry Development, Inc., (ACD/Labs) announces the version 8.0 release of ACD/Curve Manager, which delivers enhanced support for the management of data including hyphenated techniques that are not presently managed by the ACD/SpecManager or ACD/ChromManager applications.

ACD/Curve Manager provides a homogenous interface for processing, analyzing, and managing curve and plot data from various analytical sources, including thermal methods such as thermogravimetric analysis (TGA) and differential scanning calorimetry (DSC); electrochemical methods such as potentiometry and conductometry; spectroscopy methods such as x-ray powder diffraction; and others, including chemisorption, physisorption, kinetics, and ion mobility spectrometry. The resulting database can be searched by structure, substructure, similarity of structure, as well as acquisition parameters and up to 16,000 user data fields.

New to version 8.0 is the ability to directly import x-ray powder diffraction data files in Bruker DIFFRAC-AT, Bruker DIFFRAC-PLUS, and PANalytical instrument formats, providing an enhanced capacity to manage data from these instruments. As a result of ACD/Labs continuing efforts to unify the processing of various techniques under one interface, ACD/Curve Manager 8.0 contains a universal viewer for hyphenated data. This module supports complex hyphenated data linked to those techniques supported by ACD/Curve Manager such as the thermogravimetric curve in a TGA/IR data set. Associated curves such as Total Intensity plot, MaxPlot, MinPlot, or particular analytical slices can be extracted from the viewer and pushed to the main curve processing interface for more advanced treatments, including peak fitting, regression analysis, curve transformations, and interpolations.

ACD/Curve Manager 8.0 also comes equipped with the built-in ACD/ChemSketch drawing package, which makes it possible to attach inorganics, transition metal complexes, organics, and polymeric structures to curve records, thus extending the existing capability to perform structure and substructure searches within ACD/Curve Manager to a greater number of inorganic compounds than was previously possible.

Antony Williams, Ph.D., V.P. Scientific Development and Marketing at ACD/Labs, comments, "Analytical data management systems commonly focus their efforts on spectroscopy and chromatography applications. While valid, this narrow vision abandons the needs of analytical scientists who generate analytical curve data and require a system for managing their data. ACD/Curve Manager fills this void for the first time and, by integrating with ACD/SpecManager and ACD/ChromManager, provides a complete analytical data management solution."

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