Welcome to our E-Seminar:

Workflow Optimization with EZ Access and ChemStation Browser

Presenter:

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Contents

- ChemStation version A.10.02 Update
- Easy Access version 3.0, walk-up access for both analytical and preparative LC/MS
- ChemStation Data Browser version A.01.01
Prep Software Solutions with ChemStation rev. A.10.01:

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<th>Higher throughput solution</th>
<th>Walk-up solution</th>
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<td>Handles purification or impurity isolation for single samples and small batches.</td>
<td>Graphical user interface and sample import for handles larger numbers of samples.</td>
<td>Walk-up solution for an administrator/system user environment.</td>
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<td>ChemStation + Purify II</td>
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ChemStation Data Browser for remote data review
Easy Access – Main New Features

- Easier sample submission (small batches)
- System Management Improvements
- Email reports and error states
  --Now compatible with browser
Easy Access Main View

- Waiting Samples
- Current Sample
- Completed Samples
- Current Fractions
- Completed Fractions
The CAN Network: Integrated Intelligence

1. Detector detects peak
2. FC acknowledges DAD peak
   Looks up DAD delay volume
   Gets current flow rate from pump
   Calculates DAD delay time
3. Delays for delay time
4. STARTS FRACTION COLLECTION
   (Mass spec signal is “pre-delayed”)

Response delay effectively zero (just millisecs)
Sample Login – Step 1

User Login

- User Name: chemist
- Project ID: Med_03
- Job ID: azt_1
- Number of Samples: 1
- Vial type: 96 well plates

OK  Cancel
Sample Login – Step 2
Sample Login – Step 3

Put vial at position 10 in rack

Your samples should be completed by approx. 10:45 am
Removing Collected Fractions

After clicking on fraction tray, fraction list appears and user is prompted to pick up fractions.
User Indicates Fraction Collector Cleared
Break Number 1

Please type your question into the Chat Box at any time during the presentation.
Standby and Event Scheduling
Easy System Management
Administration – E-mail Setup

.png
Administration – Group Setup

Agilent Easy-Access R3 - Users and User Group Administration

- Administrator
  - sysadmin
- Chemist
- MS Chemist
- mchem
- dougem

User group:
- MS Chemist

Group info:
- Experienced chemist with MS background

Sample ID template:
- ***************

- Require sample information
- Allow multiple injections from a sample
- Allow specified UV wavelength for channel A
- Allow specified injection volume for each method
- Allow target masses
- “Autocopy down” set to ON by default

Default Data Path:
- mchem

Full Data path:
- C:\hpchem\data\mschem\

Admin Functions:
- Queue Management
- Completed Samples
- Incomplete Sample
- Methods
- Projects
- Plate definitions

E-mail Options:
- User configuration
- Group configuration
- System configuration
- System shutdown
- Show/hide CS
- Restricted mouse
- Clear autosampler tray
- Clear delayed runs
- Clear locked/unlocked
- Show/hide status bar
- FC door lock/unlock
Administration – Managing Completed Runs

[Diagram of software interface showing completed runs and options for managing them.]
Well Plate Sampler – Sample Choices

NEW!!!
Dual Loop: Analytical and Prep
Fast Draw Speed

Complete Easy Access support of well plate samplers available in April ’04
ChemStation support in ChemStation A.10.02
Easy-Access: Improving Fraction Capacity

- Instead of waiting for last sample, can now pause collection and remove collected fractions enabling locations for more fractions.
- Instead of one test tube tray, use four well-plate tray and plates with large volume wells (24 x 10 ml, 48 x 5 ml).

Fractions collected earlier may be removed.

New fractions being collected here.
Easy-Access: Optimizing Fraction Collector Throughput

Choose between maximum capacity and more user friendly fraction layout

Provide interval between users to pick up fractions

With multiple fraction collectors, no need to pause
Break Number 2

Please type your question into the Chat Box at any time during the presentation.
ChemStation A.10 – Main New Features
focused on enhanced reliability, robustness and usability

- Enhanced fraction triggering—e.g. upper threshold, baseline drift compensation, fraction preview
- Extensions for fraction collectors--more funnels, more vessels for collection
- Improved fraction collection strategies--e.g. pooling, recovery locations
- Improved mass-based fraction collection—better real time display, active splitter SW
The Browser— the highlights

How does it work?

Install browser on purification system computer--macros automatically installed to generate .AEV file

Install browser on multiple chemist's PCs who access .AEV via e-mail or a server
Main Screen for Browser

Agilent Technologies
Capability to View .RPT Files
Reporting of Peak Purity

3 components in peak 2
Plate View for Data

All data shown for each sample in spreadsheet format

Slider allows user to set different thresholds
Answers question: How many of my samples pass at 80%?, 70%? Etc.
Convenient Comparison of Samples

Multiple samples can be compared in separate windows.
Reporting from the Browser

Very flexible in terms of formatting data reported.
The Browser-- What’s New with ver A.01.01

- Now views purity calculations from ChemStation (previously required Purify Software Product)
- Now views fraction collection information from ChemSt (previously required Purify Software Product)
- Improved reporting including exporting of entire plate view and .AEV file to Excel™ or CSV file (easier transfer to LIMS etc.)
- Display of ion abundance by clicking on mass spectra