Waters Nordic 2011 User Training
September 6th to 9th, 2011

Workshops and Training:

Titles and Abstracts
Revision 8 – May 3, 2011
Track A
Empower training/ Hands on Empower 3
120 minutes sessions

A1: Improving Laboratory Productivity with Custom Fields and Calculations  
(Custom Fields Basics).
Nisar Ahmed / Liisa Kanner

Custom fields allow you to gather information during acquisition that isn’t captured by default, or you can use them to perform calculations on your data automatically. This session will introduce you to both types of custom fields, and allow you to see some examples of useful fields of each type.

Prerequisite: Familiarity with a chromatography data system and LC
Audience: Lab Users and Lab Managers

A2: Developing and Working with Custom Reports
Henrik Andersen / Anders Janesten

In this live demo session, we will cover tools that can be used to modify a report both for appearance and functionality. We will cover adding and removing objects, aligning objects, and how to filter and sort information.
Prerequisite: Familiarity with a chromatography data system and LC
Audience: Lab Users and Lab Managers

A3: Custom Fields 2- Using Boolean, Enumerated and inter sample calculation Custom Fields"  
(Advanced)
Nisar Ahmed /Anders Janesten

This session is intended for the advanced Empower users who are familiar with use of Custom Fields. In this live demo/hands-on session, we will discuss how to use Enumerated and inter sample calculation Custom Fields to enhance your Empower functionality and increase productivity.

Prerequisite: Familiarity with chromatographic data systems and custom fields
Audience: Lab Users and Lab Managers

A4: Optimize Peak Detection and Integration with ApexTrack and Processing Theory  
(including System Suitability)
Rune Frederiksen / Liisa Kanner

Integration is a critical step for generating results. In this live demo/hands-on session, we will discuss basic theory, global parameters, and timed events to optimize peak detection with both the traditional and ApexTrack™ algorithms. Setting up system suitability parameters will also be covered.

Prerequisite: Familiarity with Empower and LC
Audience: Lab Users and Lab Managers
A5: PDA Acquisition/ processing and reporting (purity & library search)
Rune B. Frederiksen/Henrik Andersen

Setting PDA acquisition parameters is crucial for getting the right results to use in peak purity and library search calculations. Creating processing methods with correct choice of parameters for purity calculations and library search will be covered. Creating appropriate reports to display the calculations and library search results will also be covered as well as time for hands-on training.

Prerequisite: Familiarity with Empower and LC
Audience: Lab Users and Lab Managers

A6: Streamline Your Chromatographic Method Validation Workflow with Empower3 MVM
Rune B. Frederiksen / Henrik Andersen

Manage the entire method validation workflow in one comprehensive, automated application. Eliminate time consuming data transfer between multiple software applications and associated transcription errors, security concerns and validation requirements. Perform all (structurally validated) results and statistical calculations in Empower3. Clearly display the status of on-going validation studies. Process validation results with a click of a button. Straightforward data viewing and interpretation. Ease of data review and acceptance.

Prerequisites: Familiarity with chromatography data systems and method validation
Audience: Lab Users and Lab Managers

A7: Working with Mass Spectrometry Data in Empower
Mats Johansson

The addition of a mass spectrometer to your chromatography system can bring an extra level of clarity to your data. In this session, we will cover some of the advantages of using a mass spectrometer, and how to work with mass spectrometry data in Empower™.

Prerequisite: Familiarity with a chromatography data system and LC
Audience: Lab Users and Lab Managers
**Track B**  
*Empower Productivity workshops*  
60 minutes sessions

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**B1: Technical introduction to Fusion method development software.**  
*Tony Wiklund*

A brief introduction to the use of Fusion AE software for a statistically true and highly qualitative decision for method development. To be able to automate a simple to use approach to DoE protocols makes the method development process much faster with a higher degree of quality.

Prerequisite: Familiarity with chromatographic data systems  
Audience: Lab Users and Lab Managers

**B2: Enable the use of QbD and DoE in the process of method development.**  
*Tony Wiklund*

Design of Experiment (DoE) is a accepted statistical approach for a pharmaceutical process to ensure a qualitative decision about a process. Analytical Method Development can easily with the use of Fusion AE software and Empower comply with current recommendation of QbD. Presents a in depth understanding in the use of Fusion AE to ensure a QbD decision.

Prerequisite: Familiarity with chromatographic data systems  
Audience: Lab Users and Lab Managers

**B3: Empower 3 - 3rd party instrument control**  
*Mogens Hallas*

In an effort to increase productivity, companies must rationalize the number of chromatography data software (CDS) systems in their analytical laboratories. For the scientist that utilizes these systems it is far easier and preferable to master one data management tool versus multiple software packages. For the company, implementation of a single solution has several compelling benefits including lower maintenance, training and validation costs.

Empower 3 Software enables lab managers to maintain their original choice of LC and GC instrumentation by controlling a vast range of chromatographic modules from a wide range of vendors in a highly comprehensive way, connecting the systems to Empower 3.

Prerequisite: Familiarity with Empower 2  
Audience: Lab Users and Lab Managers
B4: New Features and Workflow Enhancements to Empower 3 for the Chromatographer
Mogens Hallas

Empower 3 is the latest version of Waters’ powerful chromatography software suite that makes your laboratory operate better. Learn about the new features and how Empower 3 can lower your total cost of ownership by improving your productivity, workflow, and asset utilization through capabilities such as improvements to the daily workflow; batch backup and restore of projects; process only sample sets; and much more.

Prerequisite: Familiarity with Empower 2
Audience: Lab Users and Lab Managers

B5: The Laboratory Data Life-cycle- Electronic records and the paperless lab.
Heather Longden

Analytical laboratories produce huge amounts of data every day - both binary and human readable. How can these masses of data be managed so they are readily available? How do you deal with legacy data systems being retired, while the data these systems produced still needs to be available for review? This workshop will provide information on different strategies for turning the flood of data into usable, accessible information from creation through retirement. The latest developments in scientific standard data formats will also be presented.

Prerequisite: None
Audience: Lab Users, Lab Managers, and IT

B6: Future Directions in Chromatography Data Software
EHQ/US

Meet with Waters Product Marketing and Development teams for a preview of Empower 3, and discuss the evolving capabilities of Chromatography Data Systems.

Prerequisite: Familiarity with chromatographic data systems
Audience: Lab Users, Lab Managers, QA/QC, and IT
C1: SDMS - Locate and Repurpose Laboratory Information  
Ralf Schröder

The SDMS platform is the central point of access for analytical data in the laboratory. See how easy it is to find data that are currently spread all over instrument drives, shared folders and emails. Learn how common formats allow you to easily reuse the data, being the first step for an highly integrated informatics landscape.

Prerequisite: None  
Audience: Lab Users and Lab Managers

C2: SDMS/VP - Managing GxP workflows  
(Future Directions for SDMS Vision Publisher, the ELN for Analytical Laboratories)  
Ralf Schröder

Shape the future of SDMS Vision Publisher, analytical ELN. Learn what is already in process, and discuss your ideas for future enhancements of SDMS Vision Publisher with the product management team. This is an interactive workshop session.

Prerequisite: Familiarity with SDMS Vision Publisher  
Audience: Lab Users, Lab Managers, and IT

C3: SDMS and LIMS Integration  
Ralf Schröder / Anders Janesten

During the set up of a new LIMS test plans, calculations and limits keep you busy until all your products are implemented. Happy to be able to create Certificates of Analysis many LIMS projects stop at that point in time. SDMS and its built in electronic lab journal Vision Publisher are able to take you to the next level with an efficient instrument integration.

Prerequisite: None  
Audience: Lab Users and Lab Managers, and IT

C4: Laboratory Informatics practices for business sustainability  
Future Directions of the Core NuGenesis SDMS System and SDMS File Capture (including Data Adapters)  
Ralf Schröder / Anders Janesten

Shape the future of the core NuGenesis SDMS and SDMS file capture. Learn what is already in process, and discuss your ideas for future enhancements of SDMS with the product management team. This is an interactive workshop session.

Prerequisite: Familiarity with NuGenesis SDMS and laboratory data formats  
Audience: Lab Users and Lab Managers
D1: Improvement of system usage and workflow optimization.
Gilles Bassard / Ömer Yilmaz

Today's laboratory-based organizations face increasing pressure to reduce cost, speed product to
market and increase resource utilization. With the Resource Management tools we will help you
Improving the system usage and optimize the work flow. With access to the central point of information
in the database and with the specifics found of the data, we will be able to create a report that focus on
resource utilization that contain system flexibility/user flexibility, administration/compliance/security and
laboratory workflow. With the specifics found from the data, Waters consultancy will create a Resource
Management Report (RMR) and the consultancy will work with you to determine how and where the
recommendation can have a positive business impact on your organization.

Prerequisite: Familiarity with Laboratory Informatics
Audience: Lab Administrators and IT

D2: Empower ToolKit - Extend the capabilities with Empower
Gilles Bassard / Ömer Yilmaz

The Empower Toolkit provides accessibility to information in the database and extensibility of the core
product while maintaining the software in a structurally validated and supported state. This session is an
introduction to the type of customization that can be achieved with the Empower Toolkit, including the
new web based functionality within Empower 3. Participants will be shown a number of applications,
both desktop and web based that have been built using the Empower Toolkit. Following a demonstration,
customers will be given the opportunity to use examples applications and discuss how the toolkit can be
used to improve efficiency and robustness in their own workflows.

Prerequisite: Familiarity with chromatography data systems
Audience: Lab Users, Lab Managers, Lab Administrators, and IT

D3: Virtualization and Hosted Computing
Gilles Bassard / Ömer Yilmaz

Participate in a roundtable discussion on software on the topic of virtualizing your Informatics
infrastructure. Discuss challenges others are facing in this area and gain insight about how virtualization
could help you reach your corporate goals, while providing the performance you demand from your
infrastructure. What does virtualization and hosted computing/cloud computing have in common? What
are future possibilities?

Prerequisite: Familiarity virtualized computing environments, such as VMWare
Audience: Lab Users, Lab Managers, and IT
D4: The Lean and 6Sigma principles for Labs in Regulated Development and QC
Heather Longden

What is the impact of Informatics solutions for laboratory related Lean Six Sigma projects? The role of ELNs to significantly improve laboratory efficiency while supporting GxP compliance efforts in regulated development and QC/Manufacturing will be discussed in this workshop. Configurable electronic forms not only guide the user through their procedures, but are also tightly integrated with LIMS or SAP, instrument software, small lab devices, and a NuGenesis® SDMS repository for a seamless information transfer while reducing errors and waste in the laboratory workflow. Reusable templates represent best-practices workflows of scientific documentation for recurring research studies and quality control processes.

Prerequisite: Familiarity with workflows in regulatory laboratories
Audience: Lab Users, Lab Managers, and IT

D5: IT Capabilities in Empower 3 to Enable a Design for the Enterprise
Ömer Yilmaz / Gilles Bassard

Empower 3 is designed for the enterprise and your laboratory’s changing needs. Easily scalable from a single workstation to an enterprise-wide network, Empower 3 offers fast and easy software deployment by allowing silent push installation from a remote location and rapid deployment options, such as Citrix® and virtualization. Empower 3 is intended to address the challenges that a wide-area network presents. Take advantage of configuration choices such as Citrix, virtualization, server clustering, and mirroring so you can provide redundancy, ensure protection from hardware and software failures, get the most out of your investment, and the ultimate in performance.

Prerequisite: Familiarity with deploying and managing a chromatography data system
Audience: IT Professionals, Empower Administrators, and Lab Managers

D6: Assuring Electronic Data Integrity and 21cfr11 compliance for CDS
Heather Longden / Gilles Bassard / Ömer Yilmaz

In QC, many workflows involve routine analyses and tests based on SOPs and standard methods. The time and amount of paperwork needed for accurate documentation of QC procedures can be significant, presenting a large opportunity for optimization. This workshop will present ways of streamlining and accelerating QC documentation without compromising regulatory compliance.

Prerequisite: QC testing and some familiarity with NuGenesis SDMS
Audience: Lab Users and IT

D7: Using Laboratory Software for Operational Excellence
Henrik Christensen / Ömer Yilmaz

In this workshop, the importance of Informatics solutions for laboratory related Lean Six Sigma projects will be discussed. We will explore how Waters’ Laboratory Informatics solutions can successfully support these initiatives by eliminating waste and defects, reducing variability, and improving quality.

Prerequisite: None
Audience: Lab Users, Lab Managers, IT, and Lab Administrators
D8: Technology and Services for Software and System Qualification
Henrik Christensen /Ömer Yilmaz

Get an overview of Advanced Verification Technology™ (AVT), a new automated software validation service product being offered for Empower 3 users. Learn how you can reduce your validation effort significantly for your next migration.

Prerequisite: Familiarity with laboratory software/instrument qualification, software validation
Audience: Lab Users, Lab Managers, Lab Administrators, QA, Validation, and IT

D9: A Compliant-Ready Informatics System Solution for the Pharmaceutical Bioanalysis Laboratory
EHQ/US

Pharmaceutical bioanalysis laboratories operate in a highly regulated environment while also facing additional analytical challenges, such as the growing number of peptide-based drug candidates, a continued drive for higher sensitivity, and the business need for efficient workflows. To meet these challenges, new technologies need to be evaluated and adopted. Analyzing peptide-based drug candidates requires different sample preparation and method development, compared to small molecules. Bioanalysis workflows continue to be streamlined and often include the need to integrate with external systems, such as LIMS. The desire to develop more effective methods, enhance workflows, and adopt new technology is often tempered by the need to comply with regulatory guidelines and otherwise manage change control. A next-generation informatics package that is part of a complete system solution will be discussed with particular focus on design considerations for enhanced workflow and regulatory compliance.

Prerequisite: Familiarity with bioanalysis workflows
Audience: Lab Users and Lab Managers

D10: Informatics System Solutions for Biopharmaceutical Analysis
EHQ/US

Protein-based pharmaceuticals represent the fastest growing segment of drug development in the pharmaceutical industry. Fully characterizing complex biomolecules presents a difficult challenge for researchers. LC and LC/MS techniques such as intact protein analysis, peptide mapping, and amino acid analysis, among others, are often used in the characterization process.

In this session we will present Waters’ integrated software solution to aid researchers in biopharmaceutical laboratories. We will discuss key software features that scientists can employ in the characterization of protein-based therapeutics. Examples include:

• An application toolset that provides tailored workflows for biomolecule characterization
• Audit trail and security features to meet the regulatory requirements in this market
• A single software platform for LC and LC/MS instrument control, data acquisition, data processing, reporting, and data management.
• A fresh, intuitive user interface
• A scalable architecture allowing future growth from workstation to workgroup to global enterprise deployment.

Prerequisite: None
Audience: Lab Users and Lab Managers
Track E
Hands-on Masslynx sessions
(120 minutes sessions)

**E1: MarkerLynx Application Manager - presentation of software and hands-on training**
*Mats Johansson / Ingvar Betnér*

In this hands-on session the MarkerLynx application manager in MassLynx will be used. MarkerLynxXS application manager is used in order to perform multivariate statistical analysis of data-sets, where profiling of LC/MS data and classification of data sets will be shown. Multivariate visualization tools in order to better visualize complex data sets will be used. Differences between MarkerLynx and MarkerLynxXS are discussed.

Features of the software, the different multivariate tools and principal component analysis reports are shown and discussed. For more advanced multivariate tools, the direct link to Umetrics Simca-P is shown and discussed.

Prerequisite: Familiarity with MassLynx and MarkerLynx data systems
Audience: Lab Users and Lab Managers

**E2: QuanLynx application manager for quantitative data analysis**
*Ingvar Betnér / Mats Johansson*

In this session an introduction to QuanLynx software for processing of quantitative data from LC-MS systems will be shown. The QuanLynx method editor will be used, and a new processing method will be created from MassLynx data. Optimization of processing parameters and QuanLynx reports using QuanLynx Browser will be handled.

Prerequisite: Familiarity with MassLynx software
Audience: Lab Users and Lab Managers

**E3: OpenLynx application manager for qualitative data analysis**
*Mats Johansson / Ingvar Betnér*

In this session an introduction to the OpenLynx application manager in MassLynx will be shown. Development of qualitative analysis methods of LC and LC/MS data will be handled. The OpenLynx method editor will be used, processing of data as well as visualization of the results in OpenLynx browser. OpenLynx reporting and Open-Access Set-up will be addressed.

Prerequisite: Familiarity with MassLynx software
Audience: Lab Users and Lab Managers
E4: TargetLynx application manager for quantitative data analysis with qualifier flagging
Ingvar Betnér / Mats Johansson

In this session an introduction to the TargetLynx application manager in MassLynx will be done. Hands-on development of TargetLynx methods in order to address the quantitative and qualitative aspects in the TargetLynx work-flow. TargetLynx Browser will be used and training on design of TargetLynx reports will be done.

Prerequisite: Familiarity with MassLynx software
Audience: Lab Users and Lab Managers

E5: Open Roundtable Discussion
Ingvar Betnér / Henrik Christensen

MassLynx Tips & Tricks - make the most of the available functionalities in MassLynx. An introduction of new features in the latest releases of MassLynx will be shown. An open-table discussion with questions concerning MassLynx functionality will be initiated.

Prerequisite: Familiarity with MassLynx software
Audience: Lab Users and Lab Managers
F1: ACQUITY Troubleshooting, tips and tricks. Discussion together with Acquity Specialists and Service Engineers.
Mika Virtanen / Ömer Yilmaz

Presenting current tips and tricks using Acquity UPLC systems, service engineers most current tips and tricks. Take the chance to ask your questions that will help us and you to improve the use of Acquity UPLC systems.

Prerequisite: None
Audience: Lab Users and Lab Managers

F2: Method transfer HPLC/UPLC - Revalidation requirements
Esa Lehtorinne / Lone Halby

Certain considerations must be taken to transfer a chromatographic method to an instrument or column chemistry that differs in volume or selectivity, respectively. Properties of the instrument, operating conditions and the column chemistry must be controlled and matched. Geometric considerations and scaling will usually minimize any impact of the instrument and the procedures. Therefore, it is necessary to consider all measurements relative to the volume of the columns involved in the transfer.

The subtleties of column chemistry, however, have a less predictable effect on the transfer. It is necessary to properly characterize the selectivity relationships between LC column packings to best match retention and selectivity.

In this seminar, we will discuss a systematic approach towards transferring traditional chromatographic methods between HPLC and UPLC systems from a standpoint of both instrumentation volume and selectivity of column chemistry. We will also discuss new electronic tools have been developed to assist in method transfer. Geometric scaling of flow rate, injection volume and gradient segments are automated by using the ACQUITY UPLC Columns Calculator included in the system software. A brief review of method validation workflow tools will also be presented.

Prerequisite: Familiarity with chromatographic data systems
Audience: Lab Users and Lab Managers
**F3: Chemistries for ACQUITY (New columns/selectivity)**  
*Lone Halby / Esa Lehtorinne*

The workshop will give an overview of the continuous evolution of the ACQUITY UPLC columns. It includes 5 particle substrate (BEH130Å, BEH200Å, BEH300Å, HSS and CSH) and 14 chemistries which are scalable between HPLC UPLC particle sizes. The Charged Surface Hybrid (CSH) is the 3rd generation hybrid technology where a low level surface charge is incorporated, designed to improve sample loadability and peak asymmetry in low-ionic-strength mobile phases, while maintain the mechanical and chemical stability from the BEH particle technology.

**Prerequisite:** Familiarity with chromatographic data systems  
**Audience:** Lab Users and Lab Managers

**F4: ACQUITY Troubleshooting, tips and tricks. Discussion together with Acquity Specialists and Service Engineers.**  
*Tony Wiklund / Ömer Yilmaz/Mika Virtanen*

Presenting current tips and tricks using Acquity UPLC systems, service engineers most current tips and tricks. Take the chance to ask your questions that will help us and you to improve the use of Acquity UPLC systems.

**Prerequisite:** Familiarity with chromatographic data systems  
**Audience:** Lab Users and Lab Managers

**F5: Acquity UPLC system update, Where lies the future....**  
*Tony Wiklund / Ömer Yilmaz/Mika Virtanen*

Ultra Performance Liquid Chromatography has since it launch in 2004 been accepted with a majority of users and different application areas. Waters has launched new products throughout its current life time. This session is updating you on current and NEW available configurations, presenting news and options that might give o added value to using Acquity UPLC.

**Prerequisite:** Familiarity with chromatographic data systems  
**Audience:** Lab Users and Lab Managers
Method developers employ several tools to achieve optimum separations for their compounds of interest, including different columns, mobile phases, and software packages. Ideally, the optimum method is obtained using the minimum number of screening runs possible. The most common method development approach is to screen multiple columns and mobile phases to cover as much of the selectivity space as possible prior to optimization, which can be performed manually or with software. Any steps that can be taken to streamline this process can be beneficial towards bringing a product to market faster, reducing the overall cost of the assay and improving overall laboratory productivity.

UPLC allows chromatographers to develop higher resolution, faster chromatographic methods by improving system efficiency. In addition to improved efficiency, chemical factors can be manipulated to improve the selectivity and retentivity of a separation.

In this seminar, we explore and measure how factors such as pH, organic modifier and column chemistry affect separations in UPLC. A novel particle platform designed to maximize the influence of column selectivity, Charged Surface Hybrid (CSH) technology, is incorporated into a systematic screening approach, in conjunction with software driven optimization, to provide exceptional time savings in method development.

Prerequisite: Familiarity with chromatographic data systems
Audience: Lab Users and Lab Managers

F7: UPLC Biopharma applications (protein, Glycan, Peptides, AAA)
Lone Halby / Esa Lehtorinne/Tony Wiklund

UPLC provides researchers tools, technologies and integrated solutions to tackle the challenges involving various biomolecules. We continue to develop new columns and sample preparations consumables that support the analysis with UPLC and LC/MS for analyses of peptides, oligonucleotides, proteins, amino acids and glycans. The workshop will give an introduction to the solutions in applications from proteomics, biomarkers through commercialization of biopharmaceuticals.

Prerequisite: Familiarity with chromatographic data systems
Audience: Lab Users and Lab Managers
F8: Bio H-Class  
Tony Wiklund/Lone Halby

Acquity UPLC family has expanded to cover the need for inert systems without losing out on performance. Discover what’s different and new with the Acquity HClass Bio system and its current applications.

Prerequisite: Familiarity with chromatographic data systems  
Audience: Lab Users and Lab Managers

F9: Process Analytical Technology (PAT) for Efficient Labs  
Tony Wiklund

A customer partnered with Waters to develop a new PAT technology for the manufacturing environment based on ACQUITY UPLC© Technology. From this partnership, Waters has developed a new addition to the ACQUITY® family--the PATROL™ UPLC® Process Analyzer. This discussion will focus on hardware and software modules that make chromatography viable as a PAT solution for the fast-paced manufacturing environment.

Prerequisite: None  
Audience: Lab Users, Lab Managers, and IT

F10: Method transfer HPLC/UPLC - Revalidation requirements  
Esa Lehtorinne / Lone Halby

Certain considerations must be taken to transfer a chromatographic method to an instrument or column chemistry that differs in volume or selectivity, respectively. Properties of the instrument, operating conditions and the column chemistry must be controlled and matched. Geometric considerations and scaling will usually minimize any impact of the instrument and the procedures. Therefore, it is necessary to consider all measurements relative to the volume of the columns involved in the transfer.

The subtleties of column chemistry, however, have a less predictable effect on the transfer. It is necessary to properly characterize the selectivity relationships between LC column packings to best match retention and selectivity.

In this seminar, we will discuss a systematic approach towards transferring traditional chromatographic methods between HPLC and UPLC systems from a standpoint of both instrumentation volume and selectivity of column chemistry. We will also discuss new electronic tools have been developed to assist in method transfer. Geometric scaling of flow rate, injection volume and gradient segments are automated by using the ACQUITY UPLC Columns Calculator included in the system software. A brief review of method validation workflow tools will also be presented.

Prerequisite: Familiarity with chromatographic data systems  
Audience: Lab Users and Lab Managers
Optional Training Day

September 9th, 2011
Advanced Training for Custom Fields
Nisar Ahmed / Anders Janesten

This session is intended for experienced users who are familiar with routine applications of Empower Software. In this tutorial, you will access the flexibility built into Empower that allows you to customize your use of the software to meet application needs. Whether it’s creating a simple text entry field or a more complex calculation, Empower allows you to capture associated information and perform your calculations during routine data processing.

Prerequisite: Familiarity with chromatography data systems
Audience: Lab Users and Lab Managers

Empower Method Validation Manager Training
Rune B. Frederiksen / Mats Johansson

Empower Method Validation Manager (MVM) allows you to manage your entire method validation process within one software package. With the built-in workflow of the MVM software, you can easily use one sample set for multiple validation tests and go from chromatographic results to validations results. In this hands-on session we will walk through the workflow of Empower MVM.

Prerequisite: Familiarity with method development and validation
Audience: Lab Users and Lab Managers
Tony Wiklund

Has your laboratory spent weeks developing an analytical method only to find that it cannot be validated or transferred? Has it developed a method that fails to meet acceptance criteria when used routinely in production? In this workshop, we will explore the implementations of a novel method development strategy that can greatly enhance method development productivity by building robustness and regulatory flexibility into the method. With robustness built into the method during the development phase, you can be more confident that validations and transfer will pass first time, every time - while still having the regulatory flexibility to make changes without revalidation. We will demonstrate how this approach can be implemented quickly and easily using a fully integrated approach with state of the art instrumentation, column chemistries and software.

Prerequisite: Familiarity with method development and validation
Audience: Lab Users and Lab Managers

AutoPurification using FractionLynx and SFC
Sam Read/Ronan Cleary/Ingvar Betner/Mats Johansson

Join this Purification workshop and training to maximize your skills in purification and learn how to enhance your purification capabilities and increase your lab’s productivity processes through LC & SFC Purification Tips and Tricks and Method Development, as well as the use of MassLynx & FractionLynx.

Prerequisite: Familiarity with LC purification
Audience: Purification users, lab managers, analytical scientists, and chemists who use or supervise LC and/or SFC purification systems
Track 5
ACQUITY hands-on training
[Users meeting]

5 hours training session

Hands-on ACQUITY - general maintenance, injection techniques, trouble shooting and using the Acquity UPLC Consol.
Mika Virtanen/Omer Yilmaz/Olli Savolainen/Esa Lehtorinne

Participants will learn how to carry out routine maintenance on an ACQUITY UPLC System and perform the built-in diagnostics to ensure the instrument is at its highest performance level. We will discover the importance of choosing the right injection mode and how to monitor the system performance.

Prerequisite: None
Audience: Lab Users and Lab Managers
**Waters 2011 Nordic User Training**

... for everyone using Empower, MassLynx, SDMS/VP or ACQUITY UPLC in the lab this is an unique opportunity to learn about innovative laboratory data management solutions and hear case studies from users on how Waters software is deployed.

Waters Nordic User Training will be held at the **Långvik Congress Wellness Hotel**, nearby Helsinki in Kirkkonummi, beautiful and peaceful marine environment, 40 km west of Helsinki airport.

**The event consists of**
- 3 days training – September 6th to 8th - see agenda
- 1 optional extra day of in-depth training (5 hours training), September 9th - NEW!!

**When you attend this training, you will**
- Be introduced of Waters future LC and MS software
- Learn Empower3 features
- Learn in depth how to use your software, from basic skills to advanced
- Learn how to integrate different software solutions and gain efficiency
- Integrate with colleagues, share experiences and pick up helpful tips from other Waters software users
- Integrate with the expertise of Waters software developers, technical support providers, software product managers as well as Waters partners
- Get an insight of the next version of Empower, MassLynx and SDMS/VP
- Learn about risk-based validation strategies and Implementation strategies
- Learn how to interface Empower and MassLynx, Electronic Data Management Systems or Vision Publisher
- Learn about network and database maintenance and management as well as Citrix implementation
- Learn how to get out best of the UPLC System

**The optional extra day covers depth training (5 hours training sessions) on**
- Custom Fields
- Fusion, Method Development Software
- MVM, Method Validations Software
- Purification SFC and Autopurification
- ACQUITY Training

**Who should attend?**
Empower, MassLynx, SDMS and ACQUITY UPLC users. But not only users of these system should attend, it is also intended for administrators, lab managers, QA-specialists, validation specialists, IT specialists and service departments supporting these systems.

Get more information at [www.waters.com/nut](http://www.waters.com/nut)