



3rd KNIME Users Meeting and Workshop

February 22-27, 2010, Zurich, Switzerland

Monday February 22, 11:00 am – 6:00 pm, Technopark Zurich, Room Fortran

KNIME Users Training Day 1

Start	End	Topic
11:00 am		Introduction and Welcome
11:00 am	12:00 pm	KNIME Overview
12:00 pm	1:00 pm	Data Preprocessing
1:00 pm	2:00 pm	Lunch
2:00 pm	2:45 pm	Ports & Database Nodes
2:45 pm	3:30 pm	Time Series Package
3:30 pm	4:00 pm	Coffee break
4:00 pm	5:00 pm	Data Mining in KNIME
5:00 pm	6:00 pm	R-Integration / Weka Integration
6:00 pm		End of Day 1
7:00 pm		Dinner at La Salle

KNIME Overview*

Installation & Update, Workbench, Node Repository Overview, Views and Hiliting
Duration: 60 Minutes

Data Preprocessing*

Overview Data Manipulation Nodes, Simple to Advanced Preprocessing
Duration: 60 Minutes

Ports & Database Nodes*

Port Concept, Database Ports and Connections
Duration: 45 Minutes

Time Series Package*

Date-Time Type Introduction, node overview and functionalities
Duration: 45 Minutes

Data Mining in KNIME*

Module Overview, Learner & Predictor Concept, Feature Elimination, Cross-Validation
Duration: 60 Minutes

R-Integration / Weka Integration*

R Nodes, Weka Learner and Predictor
Duration: 60 Minutes

*This session includes hands-on

All training sessions are kindly sponsored by Symyx Technologies



Tuesday February 23, 9:00 am – 6:00 pm, Technopark Zurich, Room Fortran
9:00 am – 2:00 pm

KNIME User Training Day 2

Start	End	Topic
9:00 am	9:30 am	Scripting Nodes
9:30am	11:00 am	Loops and Flow Variables I
11:00 am	11:30 am	Coffee break
11:30 am	12:00 pm	Loops and Flow Variables II
12:00 pm	1:00 pm	Batch Execution
1:00 pm	2:00 pm	Lunch

Scripting Nodes*

Scripting with Java Snippet, Python, and Math Formulas nodes
Duration: 30 Minutes

Loops & Flow Variables I & II*

Introduction to flow variables, overview of workflow loops
Duration: 120 Minutes

Batch Execution*

Workflow Import/Export, batch mode for headless workflow execution (without GUI)
Duration: 60 Minutes

2:00 pm – 6:00 pm, Technopark Zurich, Room Fortran

KNIME Reporting Training

2:00 pm	2:30 pm	KNIME Reporting Overview & Introduction
2:30 pm	4:00 pm	Report Design I
4:00 pm	4:30 pm	Coffee break
4:30 pm	6:00 pm	Report Design II
6:00 pm		End of Day 2

KNIME Reporting Overview & Introduction

KNIME Reporting Extension, Installation Update, KNIME vs. Reporting Perspective
Duration: 30 Minutes

Report Design I*

BIRT's reporting functionality, Report Creation and Execution to generate reporting documents
Duration: 90 Minutes

Report Design II*

Report Creation using Flow Variables to generate flexible reports
Duration: 90 Minutes

*This session includes hands-on

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Wednesday February 24, 9:00 am – 5:00 pm, Technopark Zurich, Room Fortran

KNIME Users Meeting Day 1 - General Session

- 8:15 am Registration and breakfast
- 9:00 am **Opening and Welcome**
Frank Schaffer, KNIME.com
- 9:05 am **KNIME Future Plans**
Michael Berthold, KNIME.com
- 9:30 am **KNIME reporting use case in tenant management**
Henning Grossmann Stiftung Technopark, Zurich
- 10:00 am **Using KNIME for Marketing-Services (Cleaning and Analysis)**
Frank Schütz, Verlag für die deutsche Wissenschaft AG
- 10:30 am **Morning break**
- 11:00 am **Evolutionary data management in private banking**
Gregor Bienz CEO, Bank Frey - Rosaria Silipo, bizzeps AG
- 11:30 am **KNIME in EU Trademarks and Designs analysis**
Marc Richter, Office of Harmonization for the Internal Market (OHIM)
- 12:00 pm **KNIME product roadmap and status**
Frank Schaffer, KNIME.com
- 12:30 pm **Lunch Break – with optional KNIME Product Demos**
- 1:30 pm **Optimizing Robot Traders for the Futures Market**
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- 2:00 pm **Predictive Model Markup Language (PMML): Deployment and Integration of KNIME Models into Operational Systems using Zementis ADAPA**
Michael Zeller, Zementis
- 2:30 pm **Towards Integrating Pervasive DataRush and KNIME: Parallelizing Data Mining**
Jim Falgout, Pervasive
- 3:00 pm **KNIME Labs Overview & Status of Development**
Thomas Gabriel, KNIME.com
- 3:30 pm **Afternoon break – with optional KNIME product Demos**
- 4:00 am **Sponsoring Integration - Web Service Client and Spotfire Node. An open discussion**
Adel Kassim, Astra Zeneca
- 4:30 am **Introduction to robust data analysis**
Gábor Bakos, evopro Kft
- 5:00 pm **Apero and get together with KNIME.com Product Demos**
KNIME Report Designer, Report Server, Server Lite, Cluster Execution
- 7:00 pm **Dinner at Steinfels**

Thursday 25, 9:00 am – 1:00 pm, Technopark Zurich, Room Fortran

KNIME Users Meeting Day 2 - Life Science Session

- 9:00 am **Opening and Welcome**
Frank Schaffer, KNIME.com
- 9:00 am **KNIME: Applications in Data Mining and Model building**
Thorsten Naumann, Sanofi-Aventis GmbH Deutschland
- 9:30 am **KNIME & Next Generation Sequencing at the Pasteur Institute**
Bernd Jagla, Institute Pasteur
- 10:00 am **Structural Data Analysis workflow in the context of industrial uHTS Knime, Evotec spectral clustering, Tripos HTS Benchware explorer**
Christian Kirchhoff, evotec
- 10:30 am **Representative poses from high-power in silico screen using SURFLEX and KNIME**
Bernd Wendt, Elara Pharmaceuticals GmbH
- 11:00 am **Morning break – with optional KNIME product Demos**
- 11:30 am **KNIME.com Life Science Partners**
Schrödinger, Tripos, Infocom, Symyx, ChemAxon, BioSolveIT
- 1:00 pm **Wrap up of the meeting**
Frank Schaffer, KNIME.com
- 1:00 pm **Meeting closes**

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Thursday 25, 2:00 pm – 6:00 pm, Technopark Zurich, Room Fortran

KNIME Developer Training Day 1

Start	End	Topic
2:00 pm		Start of Developer Training Day 1
2:00 pm	2:30 pm	KNIME Architecture Overview
2:30 pm	3:30 pm	Node Extension Wizard
3:30 pm	4:30 pm	Data Handling I
4:30 pm	6:00 pm	Dialog and Settings
6:00 pm		End of day 1
7:00 pm		Dinner at Toscano

KNIME Architecture Overview

Plugin Concept, Framework Overview, Extension Mechanism

Duration: 30 Minutes

Node Extension Wizard*

KNIME Core classes, Node registration, runtime parameters

Duration: 60 Minutes

Data Handling I*

DataTable and Data Types

Duration: 60 Minutes

Dialog and Settings*

Dialog Components, Node Settings

Duration: 90 Minutes

*This session includes hands-on

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Friday 26, 9:00 am – 1:00 pm, Technopark Zurich, Room Fortran

KNIME Developer Training Day 2

Start	End	Topic
9:00 am	10:00 am	Data Handling II
10:00 am	11:30 am	Loop Support
11:30 am	12:30 pm	Node View
12:30 pm	1:00 pm	Plug-in Deployment
1:00 pm		End of day 2

Data Handling II*

Data Container and Advanced Data Handling

Duration: 60 Minutes

Loop Support*

Looping Nodes using Loop Variables

Duration: 90 Minutes

Node View*

Basics, Internals, Hiliting

Duration: 60 Minutes

Plug-in Deployment

Built a deployable plug-in

Duration: 30 Minutes

*This session includes hands-on

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Friday 26, 2:00 pm – 6:30 pm, Technopark Zurich, Room Fortran

Special Interest Group – HCA High Content Analytics

- 2:00 pm **Start of SIG – HCA Meeting – Welcome and Logistics**
- 2:15 pm **The Role of KNIME in Life Science Enterprise Informatics**
Michael Berthold, KNIME.com
- 2:30pm **Genome-wide image-based screen for genes involved in centrosome duplication**
Petr Strnad, Ecole Polytechnique Federale de Lausanne (EPFL)
- 3:00pm **Cell Profiler 2.0**
Lee Kamentsky, Broad Institute
- 3:30 pm **Active Cell Assay Image Mining**
Nicolas Cebron, ICSI - Annegret Schramm, Nycomed
- 4:00 pm **Coffee break**
- 4:30 pm **KNIME HCDC/HCBI**
Karol Kozak, ETH Zurich
- 5:00 pm **openBIS - HCS Data Management System KNIME Integration Possibilities**
Tomasz Pylak, D-BSSE ETH Zurich
- 5:30 pm **Data Analysis in High Content Screens**
Gábor Bakos, evopro Kft
- 6:00 pm **Requirements at Novartis**
Volker Weinberger, Novartis
- 7:00pm **Rich Aperó – Sponsored by KNIME.com at Technopark**

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Saturday 27, 9:00 am – 1:00 pm, Technopark Zurich, Room Fortran

Special Interest Group – HCA High Content Analytics

- 9:00 am **Welcome, Logistics**
- 9:15 am **KNIME API + coding and noding guidelines**
Bernd Wiswedel, KNIME.com
- 9:45 am **KNIME Image Processing Types and I/O**
Martin Horn, University of Konstanz
- 10:15 am **HCDC/HiTS Internals**
Karol Kozak, ETH Zurich - Gábor Bakos, evopro Kft
- 10:45 am **Coffee Break**
- 11:00 am **Open Discussions**
- Requirements
 - Coordination
 - Formation of Steering Committee/Working Group
 - Future Meetings? (when/where?)
- 1:00 pm **Close of SIG-HCA Meeting**