



“X-Ray Days @ RCPE GmbH”

May 11-12, 2017

Scope of the workshop:

The X-Ray Days, organized and hosted by the **RCPE GmbH** in close collaboration with **BRUKER-AXS GmbH**, offers a unique opportunity to get a deep insight into the most relevant X-Ray methods in today's pharma – analytics, helping to solve important problems such as:

- **Polymorph screening and phase transitions**
- **Amorphous state characterization**
- **Surface area and fractal morphology**
- **Micronization and stability**
- **Liquid crystalline formulations**
- **Vapor sorption / dissolution**
- **Integration of SAXS/WAXS and calorimetry**

This two-day workshop, aimed at scientists and engineers, features lectures on theory and application, practical demo-experiments on **BRUKER-AXS** diffractometers and SAXS instruments, leaving ample space for discussions on specific solutions.

Participation is free of charge, but restricted to a limited number of attendees only. Registration is unexceptionally required and will be operated on a “first come – first served” basis. For registration please contact: m.cibulka@tugraz.at

Topics: XRPD and SAXS / calorimetry – methods & applications for pharmaceutical solid-state structures

Key Speakers:

- Michael Brunsteiner, RCPE GmbH
- Kurt Erlacher, Bruker AXS GmbH
- Stefan Haaga, Bruker AXS GmbH
- Arnt Kern, Bruker AXS GmbH
- Peter Laggner, RCPE GmbH
- Amrit Paudel, RCPE GmbH

For any content-related Input/Questions please contact:

Simone Pival-Marko (RCPE GmbH)
simone.pival-marko@rcpe.at
+ 43 316 873 30978

Event organized by:

RCPE GmbH
Inffeldgasse 13, 8010 Graz, AUSTRIA
www.rcpe.at

Co-organizer:

BRUKER AXS Advanced X-Ray Solutions GmbH
Östliche Rheinbrückenstraße 49, 76187 Karlsruhe,
GERMANY www.bruker.com

Preliminary Agenda

Day 1 - XRPD

May 11th

08:30	09:00	Arrival of the Guests	
09:00	09:15	Welcome/Introduction	Johannes Khinast Scientific Director RCPE GmbH
09:15	09:45	Introduction of Workshop Program	Peter Laggner Arnt Kern
09:45	10:30	X-Ray Pharmalytics: What is necessary, What would be „good to have“	Amrit Paudel
10:30	11:00	Coffee Break	all
11:00	11:30	XRPD – Introduction: Methods, Instrumentation	Arnt Kern
11:30	12:00	QPA and PDF analysis on pharmaceutical formulations + Discussion	Arnt Kern
12:00	12:30	Presentation of BRUKER XRPD System	Arnt Kern Stefan Haaga
12:30	14:15	Lunch	all
14:15	15:00	Crystal Structures and Properties In Silico	Michael Brunsteiner
15:00	15:30	Coffee Break	all
15:30	17:30	„Hands-on-Session“ Presentation of Demo Data	Arnt Kern Stefan Haaga
17:30	18:00	Closing Discussion Day 1	all
19:30		Dinner (Schlossbergrestaurant, Graz)	all

Preliminary Agenda

Day 2 - SAXS

May 12th

08:30	09:00	Arrival of the Guests	
09:00	09:45	Amorphous Crystalline – the Problem	Peter Laggner
09:45	10:45	SAXS in Pharmalytics - Methods, Techniques and Key Examples	Peter Laggner
10:45	11:15	Coffee Break	all
11:15	12:30	“Hands-on-Session” SAXS/WAXS – lab presentation	Mario Hainschitz, Philipp Pernitsch
12:30	14:00	Lunch	all
14:00	15:30	Interactive Demonstration: SAXS Data Analysis	Mario Hainschitz Kurt Erlacher
15:30	16:00	Coffee Break	all
16:00	16:30	Highlights on Protein Solution SAXS	Kurt Erlacher
16:30	17:30	Round Table Discussion	all
Closing of Workshop			
