TOPAS Intensive Course

June 21 - 23, 2026 – Crans Montana, Switzerland
Regent Congress Centre, Rte des Mélèzes 28, 3963 Crans-Montana

Program:

SUNDAY, 21.06.: TOPAS BASICS and NEWS

12:00 – 13:00	**Registration**
13:00 – 13:15	Welcome *Arnt Kern, Bruker AXS, DE*
13:15 – 14:00	TOPAS V8 *Alan Coelho, Coelho Software, AU*
14:00 – 17:30	**Theory and Exercises: Basic functions in TOPAS** *Robert Dinnebier, MPI Stuttgart, DE*
17:30 – 18:00	Handling lots of data *John Evans, University of Durham, UK*
18:00 – 18:30	TOPAS-Editor Tips and Tricks - Power Editing for Launch Mode *John Evans, University of Durham, UK*

Coffee will be served during exercises

MONDAY, 22.06.: (MICRO)STRUCTURE DETERMINATION AND REFINEMENT

08:30 – 11:30	**Theory and Exercises: Whole Powder Pattern Modeling (WPPM)** *Paolo Scardi, Uni Trento, IT*
11:30 – 12:00	New macros for peak profile modeling and diffuse scattering *Marcelo Malagutti & Paolo Scardi, Uni Trento, IT*
12:00 – 13:00	**Lunch break**
13:00 – 17:30	**Theory and Exercises: Indexing, ab-initio structure determination and refinement** *Sebastian Bette, MPI Stuttgart, DE*
17:30 – 18:00	Symmetry-dependent directional equivalences for diffraction studies *Tudor Muntean[1)] & Peter Khalifah[2)],* *[1)] Stony Brook University, US, [2)] Brookhaven National Laboratories, US*
18:00 – 18:30	Understanding shear defects in oxides *Scott Misture, Alfred University, USA*

Coffee will be served during exercises.

TUESDAY, 23.06.: PAIR-DISTRIBUTION FUNCTION ANALYSIS

08:30 – 12:00	**Theory and Exercises: PDF analysis** *Maxwell Terban, Momentum Transfer, DE*
12:00 – 13:00	**Lunch break**
13:00 – 13:20	hkl-based calculation of total scattering patterns from discrete and low-dimensional structure models using TOPAS *Karsten Mesecke, Monash University, AU*
13:20 – 13:40	Understanding heterogeneous transformations in Li-S batteries through operando diffraction mapping *Peter Khalifah, Brookhaven National Laboratories, US*
13:40 – 14:00	Synthesis and characterization of novel Ni-Mg-coordination polymers within the framework of a high school research project *Sebastian Bette, MPI Stuttgart, DE*
14:00 – 14:20	Using TOPAS to study the fast and high-temperature formation of rare-earth-free magnets *Jesper Simonsen. Aarhus University, DK*
14:20 – …	**Wrap-Up**