Contribution ID: **137** Type: **not specified**

Time-resolved X-ray tomography of multiphase systems

Tuesday, 29 October 2019 17:30 (50 minutes)

This work is focused on in-situ and time-resolved tomography of multiphase systems. Specifically, transport of liquids and gases in porous structure are investigated. The applications include catalyst coating for air pollution control and pharmaceutical drugs impregnation. The evolution of the studied systems are followed by X-ray tomography in 3D with temporal resolution one second. Necessary environment as sample holders, heating system and experimental cell allowing transport of liquid and gases to the sample during continuous rotation are developed within the project. The aim is to understand interactions between different phases (solid, liquid and gas) in dynamically evolving systems.

Position

Postdoc

Primary authors: NOVAK, Vladimir (PSI - Paul Scherrer Institut); SCHLEPÜTZ, Christian Matthias; STAMPANONI, Marco (Paul Scherrer Institut)

Presenter: NOVAK, Vladimir (PSI - Paul Scherrer Institut)

Session Classification: Poster session

Track Classification: Poster