



BEATS User Community Building Event for Pakistan Interactive Webinar 7-8 Oct 2020

BEATS tomography beamline (<https://beats-sesame.eu>) is being designed for SESAME synchrotron (www.sesame.org.jo), enabling research using synchrotron X-ray computed tomography (SXCT) from 2022 onwards. This BEATS User Community Building workshop focuses on exploring various scientific application domains of SXCT, and in specific, applications relevant to Pakistan, as one of the SESAME Members (Cyprus, Egypt, Iran, Israel, Jordan, Turkey, Pakistan, Palestine). The BEATS tomography beamline will be designed, constructed, and commissioned by the EU H2020 funded project BEATS (Beamline for Tomography at SESAME; <https://beats-sesame.eu>). A number of clear application domains in the SESAME region have already been identified, including (1) Archaeology and Cultural Heritage; (2) Health and Biology; (3) Geology and Environment; and (4) Material Science. This workshop explores scientific application domains of particular interest for Pakistan.

This online interactive workshop is open for participation by all researchers and interested parties across academic disciplines, industry, governmental services, and other interested parties, regardless of domain, as any area with material samples can benefit from the application of high-resolution tomography to specific problems or research questions. Invited presentations scheduled the first day of this online workshop lay the ground for discussions on science applications, followed by opportunities for break-out sessions, and mentoring sessions on science applications, prior laboratory analyses, sample preparation and mounting, and beamtime proposals during the second day.

BEATS talks include the following: BEATS project introduction and status; introduction to SXCT; science applications; BEATS design, construction and commissioning; how to become a BEATS user. BEATS speakers include: Dr Axel Kaprolat (BEATS Coordinator, ESRF), Dr Andrea Lausi (Scientific Director, SESAME), Dr Kirsi O. Lorentz (BEATS SC Vice-Chair and WP2 T1 Leader, Cyl); Dr Gianluca Iori (BEATS Beamline Scientist, SESAME), Dr Alexander Rack (BEATS tomography expert, ESRF). Further talks will be given by Dr Fareeha Hameed, Dr. Naila Siddique and Dr. Mohsin Ali Raza Anjum.

Short webinar talks and/or online posters from SXCT users/potential future users in Pakistan are invited – please submit your abstract (max. 300 words, with up to two images) to sciencecaseBEATS@cyi.ac.cy, with clear focus on SXCT applications and/or potential in your research domain (please include full name, email, and institutional affiliation).

Panelists and discussants for this BEATS event include: Dr Javed Akhtar (SESAME SAC Member), Dr Sohaila Rehman (SESAME SUC Member), Dr Axel Kaprolat (BEATS Coordinator, ESRF), Dr Andrea Lausi (Scientific Director, SESAME), Dr Kirsi O. Lorentz (BEATS SC Vice-Chair and WP2 T1 Leader, Cyl); Dr Gianluca Iori (BEATS Beamline Scientist, SESAME), Dr Alexander Rack (BEATS tomography expert, ESRF)

The workshop will be hosted on an online platform from the Cyl Green Room. There are no workshop fees, however all participants are asked to register for better organization, via sending an email in the first instance to sciencecaseBEATS@cyi.ac.cy, and following subsequent instructions. We look forward to exploring BEATS and SXCT applications for your research.

Contact: sciencecaseBEATS@cyi.ac.cy

Further information: <https://beats-sesame.eu>

