

MAPEX workshop & user meeting 3D Materials Analytics

Programme

8th September 2021

gather.town



MAPEX Bremen

Material. Process. Excellence.



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for Materials Analytics

Programme - overview

09:00 Session 1 – Keynote room

11:00 Round table discussion – Meeting room

11:30 Session 2 – Keynote room

12:35 Round table discussion – Meeting room



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09:00	<i>Prof. Lucio Colombi Ciacchi</i>
Welcome and introduction	<i>Dr. Guilherme Dalla Lana Semione</i> <i>MAPEX Center for Materials and Processes</i> <i>University of Bremen</i>
09:10	<i>Dr. Wolf-Achim Kahl</i>
Introductory lecture	<i>MAPEX Center for Materials and Processes</i> <i>University of Bremen</i>
09:50	Break
10:00	<i>Dr. Michael Georg Siccha Rojas</i>
CT applications in marine micropaleontology	<i>Zentrum für Marine Umweltwissenschaften der Universität Bremen (MARUM)</i> <i>University of Bremen</i>
10:20	<i>Md Nurul Karim</i>
Micro-computed tomography of ceramic porous structures and composites: microstructural analysis and in-situ mechanical tests	<i>Advanced Ceramics</i> <i>University of Bremen</i>
10:40	<i>Karem Stamm</i>
Phase contrast or staining: Visualization of biological samples using the XRM	<i>Biological Structures and Biomimetics Workgroup</i> <i>Hochschule Bremen</i>



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Break and round table – Meeting room

11:00 – 11:30

Have a break or join the round table discussion to get to know your peers working in the fields of x-ray microscopy and x-ray computed tomography.

Session 2 – Keynote room

11:30 – 12:30

11:30

Elie Abi Aoun

Automated defect detection in rotor blades of wind turbines based on micro-CT scans

*Faserinstitut Bremen e.V. (FIBRE)
University of Bremen*

11:50

Clarissa Karthäuser

Marine snow particle visualization - a correlative imaging approach to characterize sinking organic material in the ocean

*Biogeochemistry department
Max-Planck Institute for Marine Microbiology*

12:10

Dr. Wolf-Achim Kahl

Enhanced weathering in the seabed: rapid olivine dissolution and iron sulfide formation in submarine volcanic ash

*MAPEX Center for Materials and Processes
University of Bremen*

12:30

Dr. Hanna Lührs

Closing remarks

*MAPEX Center for Materials and Processes
University of Bremen*

Round table – Meeting room

12:35 – 13:00

As the closing session of the event, participants are invited to continue their discussions and share their thoughts about the event.



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Location

Gather.town, an interactive meeting platform.

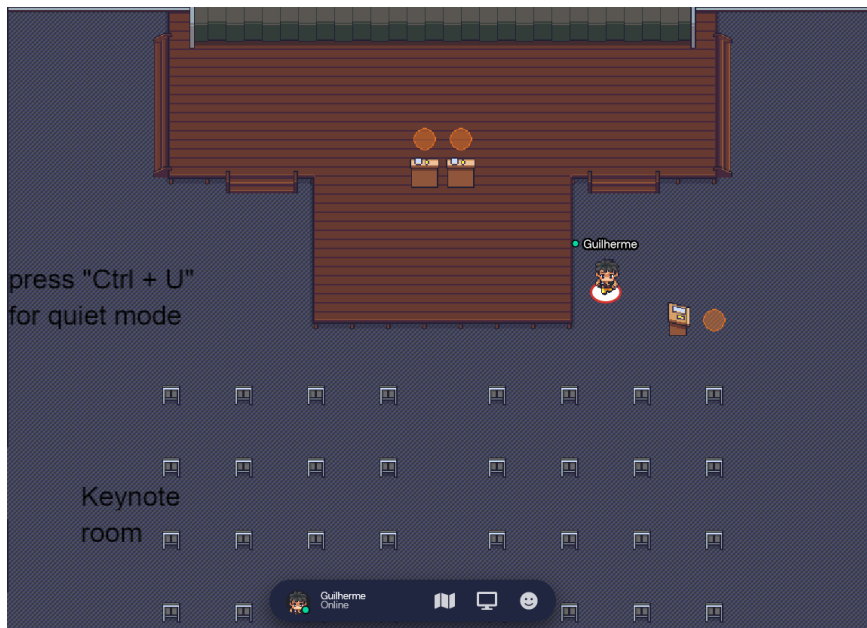
Reception:



Main area:



Keynote room:



Meeting room:



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MAPEX workshop & user meeting – 3D materials analytics

Studies of 3D bulk materials microstructures can be pivotal for the future development of sustainable materials and to the understanding of biological materials towards bio-inspired goals.

In this sense, x-ray microscopy and x-ray computed tomography surge as viable options to tackle the open questions in the scientific community.

By promoting the exchange between present and future interested researchers with the expertise of MAPEX and MAPEX-CF we intent to further develop and solidify the field of 3D materials analytics at the University of Bremen.

In the event space, you will be able to use your personal avatar to:

- Listen to the lecture and talks in the keynote room;
- Meet colleagues in private spaces for small group discussions.
- Participate in round-table discussions



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