



# QUARTZ2021 Scientific program

Venue: "Støperiet" (Foundry), Rambergveien 11, Tønsberg, Norway

## 5 September 2021

17:00-22:00 Registration and Icebreaker at Slottsfjellsmuseet, Farmannsveien 30, Tønsberg

## 6 September 2021

09:00-09:20 Welcome to QUARTZ2020 and Announcements

**Theme: Quartz mineralogy and analytics**

09:20-10:00 **Keynote: Jens Götze**

Mineralogy and mineral chemistry of quartz

10:00-10:20 **Axel Renno**

SIMS analytics of quartz

10:20-10:40 **Alfons van den Kerkhof**

Quartz alteration textures in cathodoluminescence - an overview

### Coffee Break

**Theme: Quartz mineralogy and analytics**

11:00-11:20 **William Keyser**, Axel Müller, William B. Simmons, Karen Webber, Michael Wise, Hartmut Beurlen, Idoia Garate-Olave, Encarnación Roda-Robles, Miguel Ángel Galliski

Quartz chemistry of granitic pegmatites: Implications for classification, genesis and exploration

11:20-11:40 **Graciela Sosa**, Alfons van den Kerkhof, P. Oyhançabal, Klaus Wemmer, F. Paullier, J. Spoturno, S. Oriolo

Multistage evolution of a Neoproterozoic quartz-gold vein mineralization, Dom Feliciano orogenic belt, Uruguay

11:40-12:00 **Jens Götze**

Mineralogy, geochemistry and genesis of agate – revealing the mystery of agate formation

### Lunch

**Theme: Quartz mineralogy and as pathfinder of deformation conditions**

14:00-14:40 **Keynote: Peter Lyckberg**

Quartz as a precious stone and collector's item

14:40-15:20 **Petar Pongrac**, Petr Jeřábek, Holger Stünitz, Hugues Raimbourg, Martin Racek, Renée Heilbronner, Lucille Nègre, Jacques Precigout

Role of H<sub>2</sub>O in quartz mechanical behavior and microstructure: deformation experiments on Tana-quartzite

15:20-15:40 **Axel Müller**, Bernd Leiss, Klaus Ullemeyer, Karel Breiter

Lattice-preferred orientations of late-Variscan granitoids derived from neutron diffraction data: implications for magma emplacement mechanism

15:40-16:00 **Luca Menegon**, Alberto Ceccato & Lars N. Hansen

Strength of dry and wet quartz in the low-temperature plasticity regime: insights from nanoindentation

19:00-22:00 Optional common dinner/drinks in town (costs to be covered by participants themselves)

<b>7 September 2021</b>		
09:00-09:15	<b>Announcements</b>	
	<b>Theme: The industrial mineral quartz: ore characterization, exploration, mining and processing</b>	
09:15-10:00	<b>Keynote: Reiner Haus</b>	The processing of high purity quartz: From the rock to high quality concentrate
10:00-10:20	<b>Trond Brenden-Weisal</b>	Relation of quartz textures to thermal behaviour of quartz in FeSi- and Si-furnaces
10:20-10:40	Jan Egil Wanvik, <b>Axel Müller</b>	Quartz deposits of Norway - great diversity and high abundance
<b>Coffee-break</b>		
	<b>Theme: The industrial mineral quartz: ore characterization, exploration, mining and processing</b>	
11:00-11:20	<b>Benny Hallam</b> , C. Hadley, Oscar Nijs	Chlorination as final processing step of high purity quartz sand for advanced applications: new chlorination plant at Drag
11:20-12:00	<b>Haoyang Zhou</b> , Axel Müller	Quartz geochemistry from the Tysfjord NYF pegmatites, north Norway
<b>Lunch</b>		
	<b>Theme: Quartz in sedimentology and structural geology</b>	
14:00-14:40	<b>Keynote: Roland Stalder</b>	OH in detrital quartz grains as tool for provenance analysis
14:40-15:00	<b>Alberto Molinero-Garcia</b> , Juan Manuel Martín-García	Provenance study of quartz grains in Quaternary terraces from Guadalquivir river (Spain)
15:00-15:20	<b>Rikke Weibel</b>	Porosity-preserving microquartz coatings in sandstones
15:20-15:40	<b>Axel Müller</b> , Jochen Knies	Quartz provenance of the Miocene/Pliocene Molo Formation
18:00-24:00	<b>Conference dinner at Verdens Ende Spiseriet, Helgerødveien 590, Tjøme (Bus round trip will be organized by QUARTZ2021)</b>	

<b>8 to 10 September 2021</b>	
All day	<b>Excursion to quartz and other deposits in the Kragerø, Tørdal and Kongsberg areas, southern Norway</b>