

2022

**Geologic Repositories Rock
Sample Digitization
Webinar Series**

Alaska Geologic Materials Center



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The Spring 2022 **Geologic Repositories Rock Sample Digitization** webinar series is co-hosted by the *Alaska Geologic Materials Center* (GMC) and the *Alaska Geological Society* (AGS). Additional support is provided by the USGS National Geological and Geophysical Data Preservation Program (NGGDPP), Alaska Oil and Gas Association (AOGA), Alaska Miners Association (AMA), and American Association of State Geologists (AASG).

Presenters include technology providers, academia, and government bureaus with expertise and actual experiences in creating non-destructive analytical databases for rock sample archives.

Each presentation looks to extend the geologic community's use of repository collections through digitization of rock samples, including examples of cooperation and support across public, academic, and resource industry partnerships. The presentations also look to draw support from the geological community for the acquisition of technological capability and the opportunity to build modern regional integrated analytical rock sample datasets for the nation.

Geologic Repositories Rock Sample Digitization Webinar Series: Original Schedule

Date	Presenter	Organization	Title
2/23	Jacob Proctor	Ingrain - A Halliburton Service	Addressing reservoir challenges in the North Slope and non-destructive dual energy CT
3/9	Kurt Johnson	Alaska GMC	Promise and challenge of digital rocks
3/16	Katrina Cox	Core Laboratories	RAPIDZoom™ core and thin sections: Digitalization of Umiat and Square Lake energy core
3/23	Matthew Andrew	Carl Zeiss X-ray Microscopy, Inc.	Bringing petrography into the digital age: automating acquisition, analysis & quantification of thin sections using the Axioscan 7, advanced algorithms and machine learning
3/30	Dale Blue Caroline Mignot	Halliburton	Diskos 2.0: The National Digital Resource for exploration and production in Norway
4/13	Georgina Gordon Carsten Laukamp	Geological Survey of South Australia CSIRO Mineral Resources	Virtual Core Libraries: Implementation and the impacts of making this resource readily accessible. Insights from the Geological Survey of South Australia and AuScop's National Virtual Core Library
4/20	Marie-Christine Ferland	Photon etc.	Modular multi-sensor core scanning platform for geological applications
4/27	Philip Lypaczewski	College of the North Atlantic	Hyperspectral imaging as a public geoscience tool - Early results of a drill core digitization program in Newfoundland and Labrador, Canada
5/4	Gary Thompson Douglas Morrison	College of the North Atlantic Centre for Excellence in Mining	The Mining Innovation Commercialization Accelerator (MICA) and the role of Canadian colleges in advancing geosciences
5/18	Jacob Proctor	Ingrain - A Halliburton Service	Data acquisition campaign for Alaska reservoirs
5/25	Guy Oliver David McKnight	Geolog Americas Inc. Hitachi Vantara	A digital-cuttings drill-down, with examples from the Geolog Americas Nanushuk-Torok Regional Cuttings Consortium
6/1	Katrina Cox Patrick Huff	Core Laboratories	Non-Invasive Technologies for Reservoir Optimization (NITRO) on the Umiat Core Advanced Cuttings Collection and Reservoir Expression in Cuttings
6/8	Rainer Bärs Phil Harris	Spectral Imaging Ltd. TerraCore	A geological tool for digital transformation: The Sisurock Hyperspectral Scanner

Geologic Repositories Rock Sample Digitization Webinar Series: Published Chapters

This publication includes three chapters organized by the following topics:

Chapter A: Non-destructive scanning instruments:

doi.org/10.14509/30878

Chapter B: Public Agencies: doi.org/10.14509/30882

Chapter C: Third-Party Support Services: doi.org/10.14509/30883

Unless otherwise noted, each chapter includes presenter biographies, presentation abstracts, and presentation recordings. Video records of each presentations are available to download from the citation pages listed above.