

# **Kurt J. Johnson**

## **Curator, Alaska Geologic Materials Center**

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## **Objective**

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To connect Alaska's geologic collections to research, industry and education communities for the purposes of greater geologic understanding, increased awareness of economic opportunities, and to encourage public interest and understanding of Alaska's geologic history.

## **Education**

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Master of Science in Geology, University of Alaska Fairbanks

Bachelor of Arts in Geology, Augustana College, Rock Island, Illinois

## **Relevant Work Experience**

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### **2015 - Present · Geologist V · Curator**

#### **Alaska Geologic Materials Center · State of Alaska · Anchorage, Alaska**

Responsible for leadership, operations and safety for staff, visitors and the geologic collections at the Alaska Geologic Materials Center (GMC). Oversee viewing, sampling, and conservation of geologic collections. Develop and maintain GMC cataloging and record-keeping systems using databases. Continually test databases, correct errors, and research missing sample metadata.

### **2012 - 2015 · Adjunct Professor**

#### **Department of Geology · University of Alaska · Eagle River Campus**

Taught Physical and Environmental Geology courses at the college level. Developed curriculum relevant to Alaskan students. Initiated, facilitated, and moderated classroom and lab discussions.

### **2009 - 2015 · Geologist III · Natural Resources Technician II**

#### **Alaska Geologic Materials Center · State of Alaska · Eagle River, Alaska**

Assisted with ongoing geologic data collection projects at the GMC. Provided educational outreach to community members. Instituted standards and wrote scripts to migrate data into PostgreSQL schema.

### **1993 - 2002 · Executive Director · Director of Education & Information Technologies**

#### **Alaska Museum of Natural History · Eagle River, Alaska**

**Executive Director:** (2 years) Managed staff and volunteers, created coherent flow of information, handled successful fundraising and grant proposals, devised and applied marketing, and provided daily coverage of exhibits floor. Supported Board of Directors, prepared annual budgets, and extended the strategic vision of the institution.

**Director of Education:** (8 years) Initiated, scheduled, advertised, staffed, and coordinated natural history field trips, guided tours, and classes including five programs for preschool to adult students.

**Director of Information Services:** (6 years) Researched, designed, coded, implemented, drafted text and graphics and maintained all museum, educational, and Internet information projects.

## **1988 - 1991 · Petroleum Explorationist**

### **ARCO Alaska · Anchorage, Alaska**

Massive quality control and update of mainframe exploration databases using intensive programming to repair tens of millions of data; including seismic navigation, well and down-hole locations, well logs, geopolitical, and lease data. Utilized multivariate statistical techniques to differentiate source rock provenance for Cook Inlet sediments.

## **Data Delivery Projects**

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### **Minerals Data and Information Rescue in Alaska (MDIRA)**

- Completed a full data assessment on 24,000 non-fuels solid-mineral resources core samples.
- Began indexing diverse surface and subsurface industry geologic materials housed at the GMC.
- Performed a major re-boxing effort (in conjunction with NNGDPP funds) on core samples in order to prevent major data loss due to substantial box deterioration.

### **National Geological and Geophysical Data Preservation Program (NNGDPP)**

- Reboxed and provided detailed inventory information more than 770 boxes of the Amchitka drill core, 700 boxes of coal-bed methane core, 104,000 US Bureau of Mines pulps and 50,000 representative feet of US Bureau of Mines skeletonized drill core.
- Designed and implemented an enterprise data system to catalog and house digital geologic data and information for Alaska geologic sample collections.
- Integrated the index of all detailed geologic samples into enterprise database.

## **Selected Publications**

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Johnson, K.J., 1986, DGGs Alaska coal regions database: Alaska Division of Geological & Geophysical Surveys Public Data File 86-87, 64 p. <http://doi.org/10.14509/1288>.

Burns, L.E., Johnson, K.J., and Newberry, R.J., 1988, Discriminant function for separating tin from non-tin granites: application to the Hope Granite Suite, eastern interior Alaska: Alaska Division of Geological & Geophysical Surveys Public Data File 88-12, 14 p. <http://doi.org/10.14509/1361>.

Liss, S.A., and Johnson, K.J., 1988, Geologically orientated bibliography program: Alaska Division of Geological & Geophysical Surveys Public Data File 88-13, 44 p., 1 DVD. <http://doi.org/10.14509/1362>.

Johnson, K.J., 1992, A statistical study of tin and mercury mineral provinces in the Kuskokwim River area, southwestern Alaska: University of Alaska Fairbanks, M.S. thesis, 148 p.

Johnson, K.J., 2017, Migration to Modern Relational Database: A Repository's Rocky Road to Improved Geologic Inventory Management (presentation): 2017 Data Rescue and Preservation Workshop, Salt Lake City, Utah, September 26 – 28, 2017: National Geological and Geophysical Data Preservation Program. [https://datapreservation.usgs.gov/docs/uploaded/Geologic\\_inventory\\_management1.pdf](https://datapreservation.usgs.gov/docs/uploaded/Geologic_inventory_management1.pdf).

## **Selected Outreach**

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**GMC Science Learning**, 2009-present, tours and lectures for kids to adults, hosted by GMC staff.

**Brookian topset core workshop on the Nanushuk Formation** (AAPG), 2017, hosted by GMC Staff.

**Saturday Summer Science**, 1993-2001, lead public tours of up 100 participants to areas of geologic interest in Southcentral Alaska, hosted by Alaska Museum of Natural History, Eagle River, Alaska