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2019

American Geosciences Institute



The American Geosciences Institute is a nonprofit federation of geoscientific and professional associations that represents more than 250,000 geologists, geophysicists, and other earth scientists. Founded in 1948, AGI provides information services to geoscientists, serves as a voice of shared interests in our profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society's use of resources, resilience to natural hazards, and the health of the environment.

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GEOSCIENCE CATALOG 2019

Welcome to the 2019 Geoscience Catalog published by the American Geosciences Institute. Here you will find an array of earth science related publications, programs, software and outreach services we provide. There are also some terrific books from other publishers, and on page 2, check out EARTH, AGI's monthly magazine that brings the earth sciences to the world!!!

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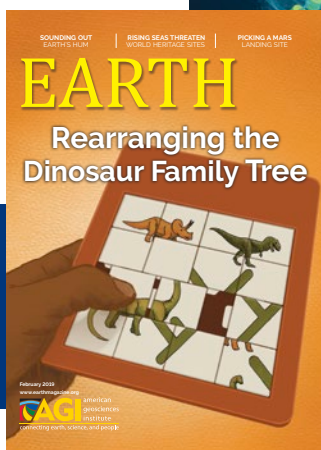
Cover: Nebraska's Niobrara River displays several terraces as it digs its channel deeper. This page: Algodones Dunes, California | Both images ©Michael Collier, from the AGI Earth Science World Image Bank

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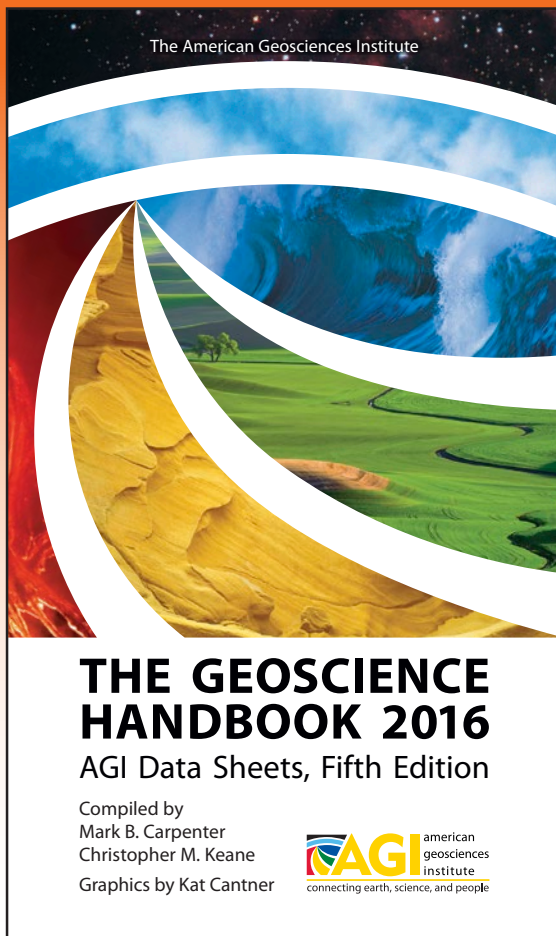
The American Geosciences Institute GEOSCIENCE HANDBOOK

AGI Data Sheets Fifth Edition

Mark B. Carpenter,
Christopher M. Keane

For more than 40 years, AGI's Data Sheets have been a critical tool for the geoscientist in the field, the lab, and the classroom. For decades its bright orange cover and three-ring binding were distinctive in the geoscience community. The book evolved into its current, full-color and spiral bound format with the 2005 debut of the fourth edition.

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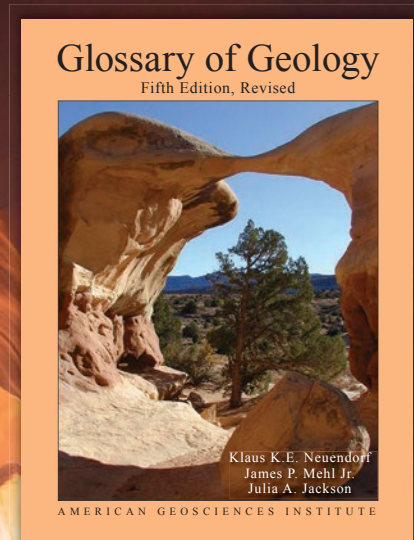
Edited by Mark Carpenter and Christopher M. Keane

\$59.99

492 pages

ISBN: 978-0-913312-47-6

HOW DO YOU LIKE YOUR GLOSSARY?



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A

A *noun number.*

aa (a: a-fah'ah) A Hawaiian term for lava flows typified by a rough, jagged, spinose, siltulose surface. Cf. *patte d'oie*; *dark lava*; *illich*; *illich Hawaiian*. An expletive of our wiser walking, taceat in each loss (the *ay*) *quadrile*.

Aalenian (a: le'ni an) A stage of the Standard Global Chronostratigraphic Scale: Invermest Middle Jurassic (above Toarcian, below Bajocian). The basal GSSP is at Tuenish in central Spain. (Crista et al., 2024).

AAR *acoustic absorption coefficient*.

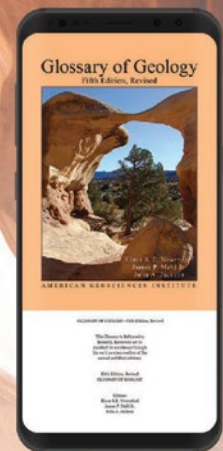
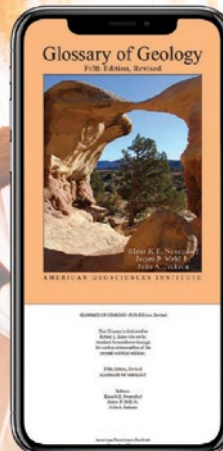
AAS *atomic absorption spectroscopy*.

a* axis That axis of a triclinic crystal lattice which is perpendicular to the (100) plane of the c* axis.

a axis [crystal] One of the crystallographic axes used as references in crystal description. It is the axis that is oriented horizontally, front to back, in an orthorhombic or triclinic crystal, it is usually the *h* axis. In monoclinic crystals, it is the *h* axis. The letter *a* usually appears in italics. Cf. *b axis* [crystal], *c axis* [crystal].

a-axis [ice] In a hexagonal crystal, the *a*-axis is perpendicular to the *c*-axis and makes angles of 120° to one another. Cf. *c-axis* [ice].

a axis [strain petrology] One of three orthogonal reference axes, *a*, *b*, and *c*, that are used in two different ways. (a) To long describe the geometry of a fabric possessing orthorhombic or monoclinic symmetry. The unique symmetry plane is labeled the *a*-c plane, and a line at the intersection of this plane with a structural fabric surface. (b) In a kinematic sense, to describe a deformation plane that possesses orthorhombic or monoclinic symmetry, such as progressive pure or simple shear. In this case the *a*-axis again lies in the unique plane of symmetry but parallel to the movement plane. It is the direction of maximum displacement and is commonly referred to as the direction of tectonic

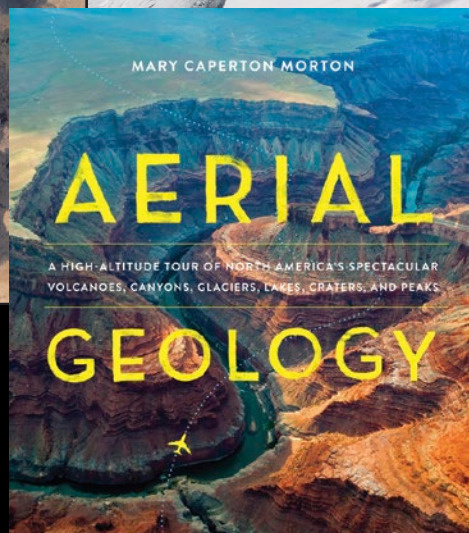


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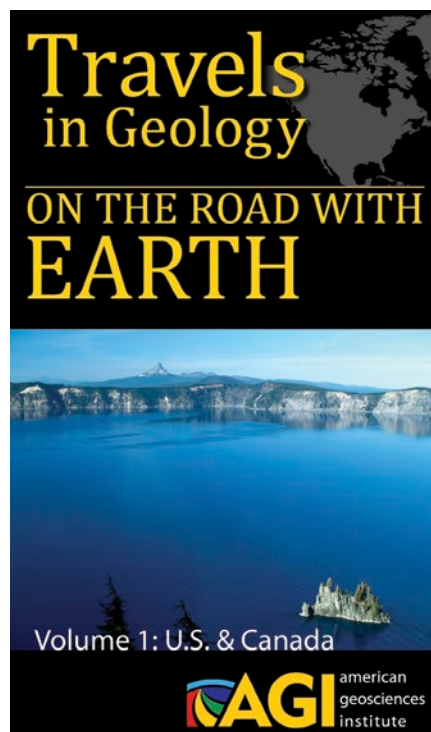
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Volume 1: U.S. & Canada

Megan Sever, Sara Pratt, and Erin Wayman

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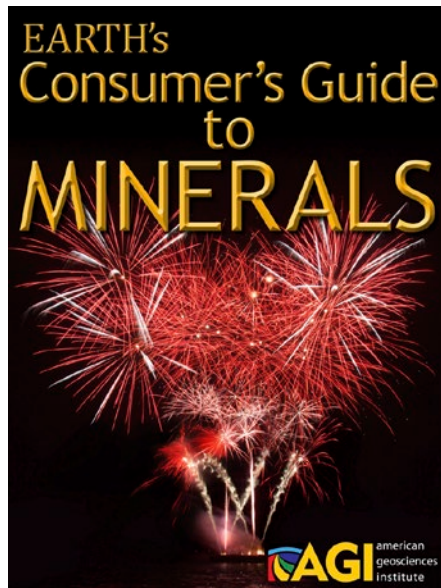
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THE CONSUMER'S GUIDE TO MINERALS

Edited by Christopher Keane and Megan Sever

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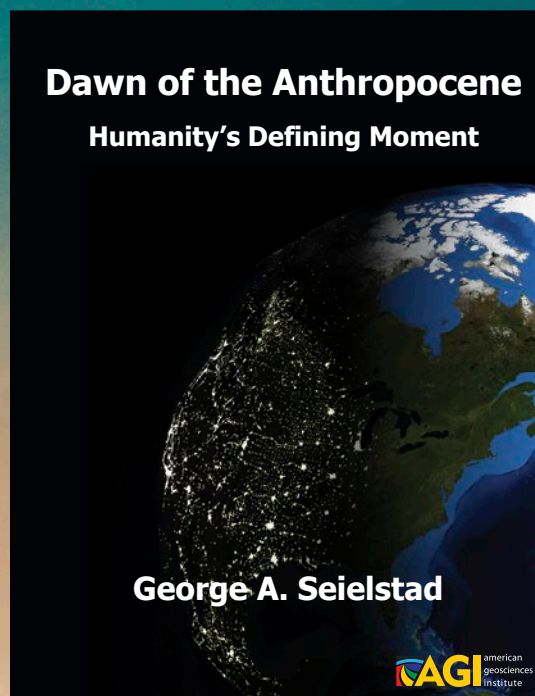
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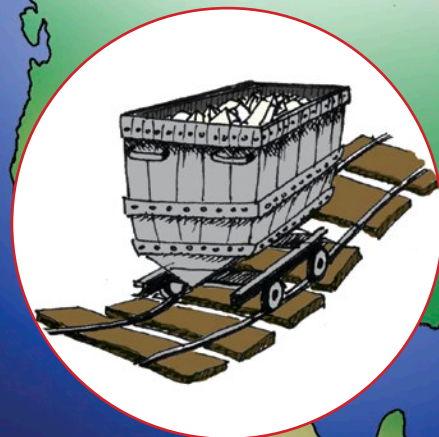


Stephen M. Testa

One Man's Planet: Earth in Today's Political Culture

Stephen M. Testa

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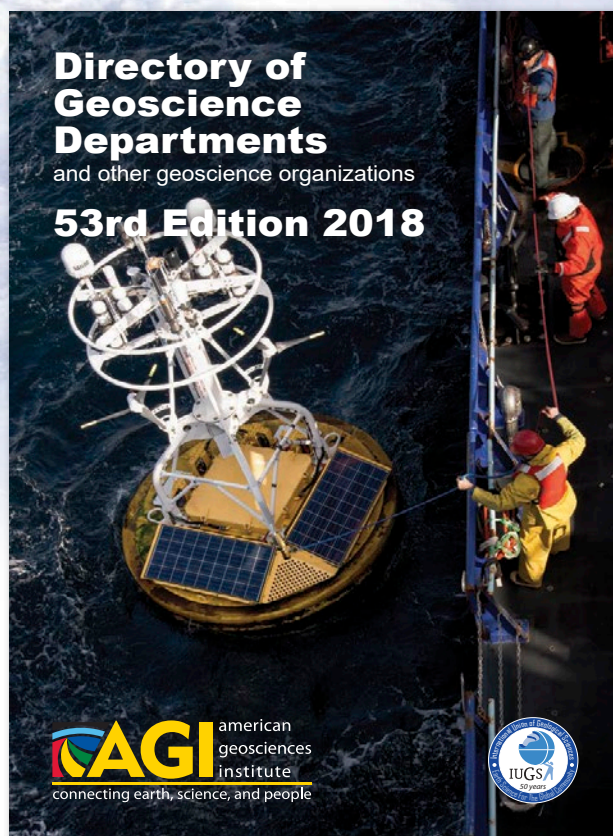
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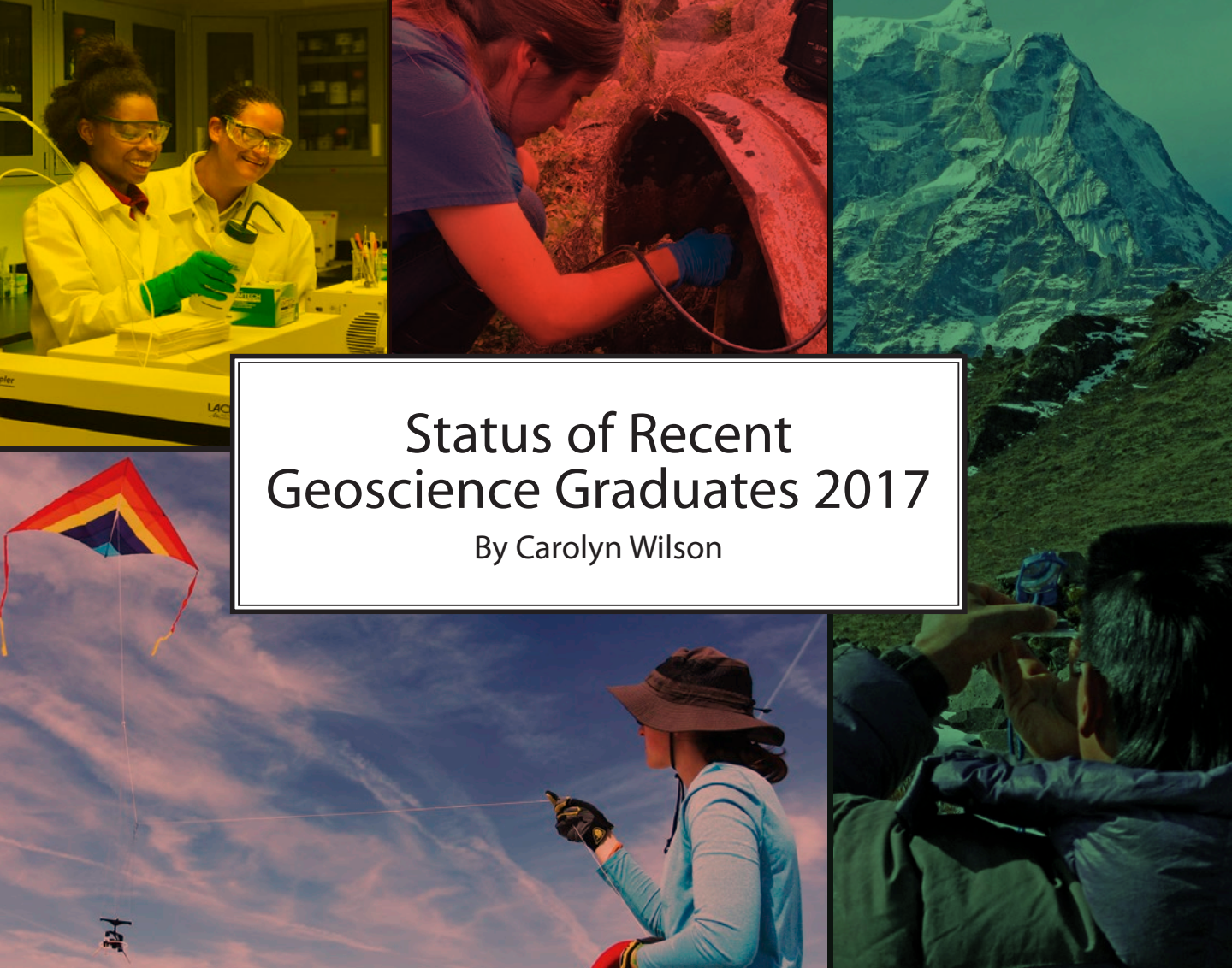


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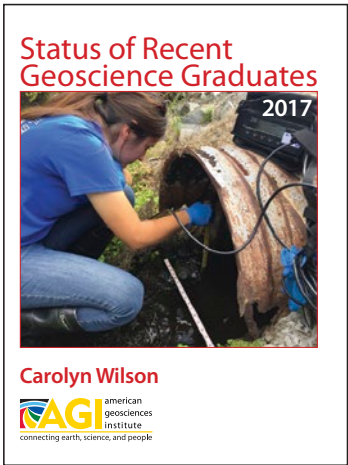
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Status of Recent Geoscience Graduates 2017

By Carolyn Wilson

Photos from AGI's 2017 Life As a Geoscientist. Photographers clockwise from top left Victoria Heather; Mayra Martinez; Rob Thomas; Mary Lide Parker



The American Geosciences Institute's (AGI) Status of Recent Geoscience Graduates 2017 provides an overview of the demographics, activities and experiences of geoscience degree recipients during the 2016-2017 academic year. This research draws attention to student preparation in the geosciences, their education and career path decisions, as well as provides other critical insights into the newly minted geoscience workforce at the bachelor's, master's and doctoral degree levels.

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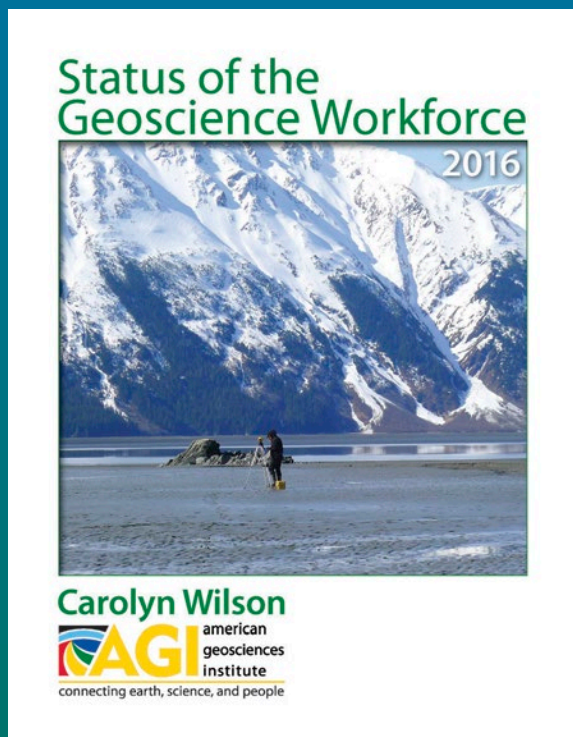
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The 2016 AGI Status of the Geoscience Workforce Report

Positive Trends in a Hard Time



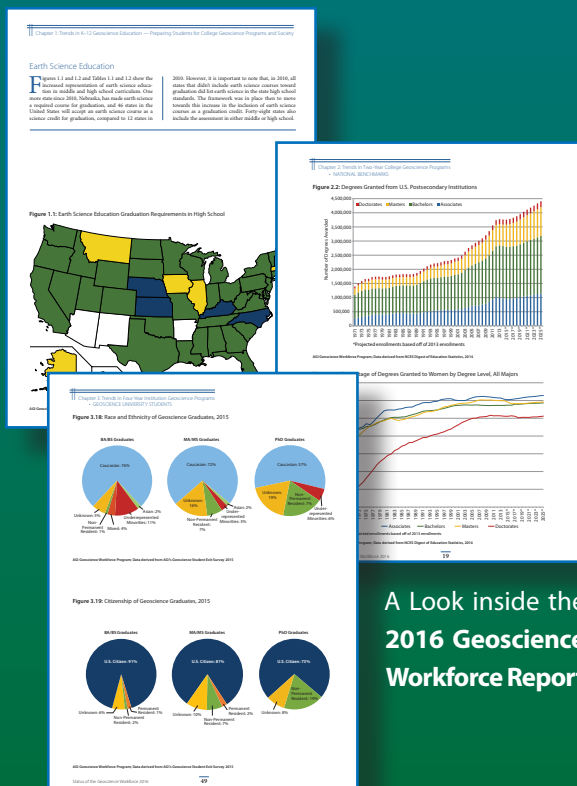
Authored by Carolyn Wilson

The Status of the Geoscience Workforce 2016 report is based on original data collected by AGI as well as from federal data sources, professional membership organizations, and industry. The report integrates all of these various data sources into a comprehensive view of the human and economic parameters of the geosciences, including supply and training of new students, workforce demographics and employment projections, to trends in geosciences research funding and economic indicators. This edition highlights the issues facing institutions of higher education as they prepare future geoscientists as well as the current economic and personnel issues facing the geoscience workforce.

The 2016 Report (ISBN-13: 978-0-913312-54-4) is available for sale either digitally as a PDF for \$10.00 or in print for \$30.00.

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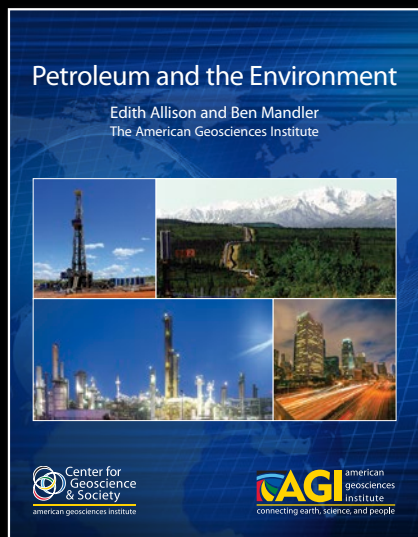
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**A Look inside the
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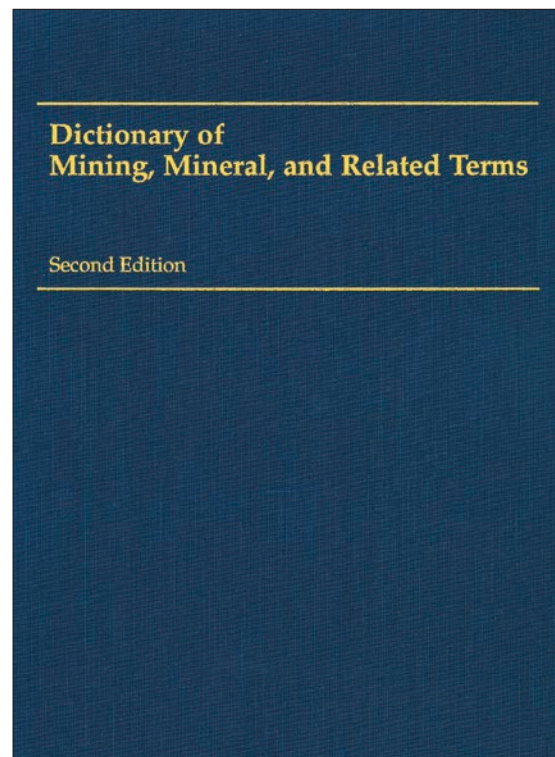
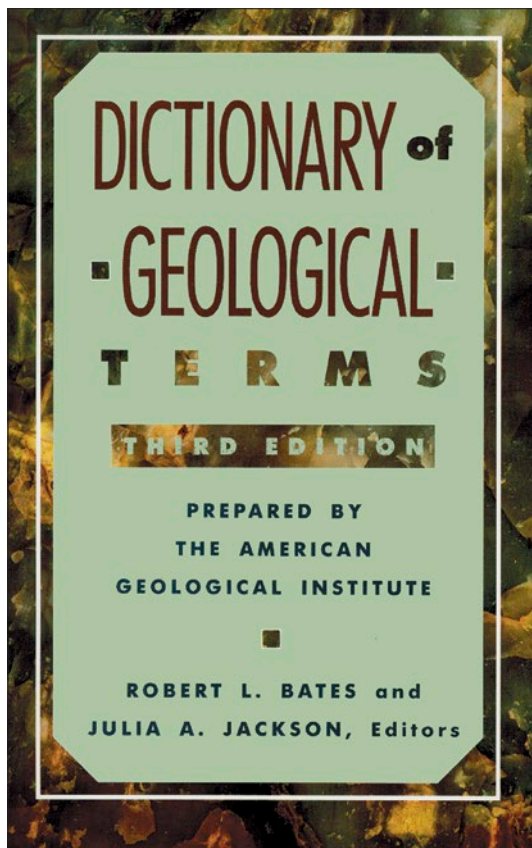
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Edited by Robert L. Bates and Julia A. Jackson

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Compiled by the American Geosciences Institute for the U.S. Bureau of Mines

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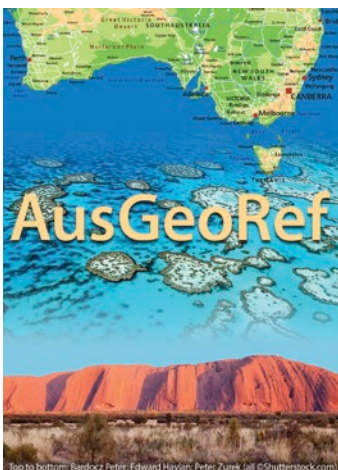
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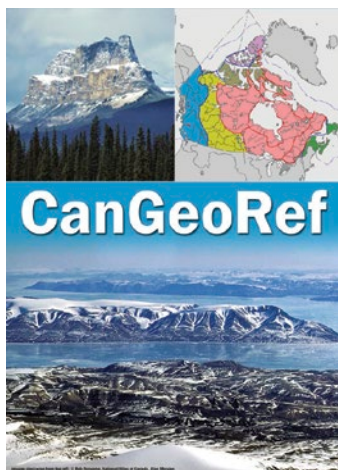


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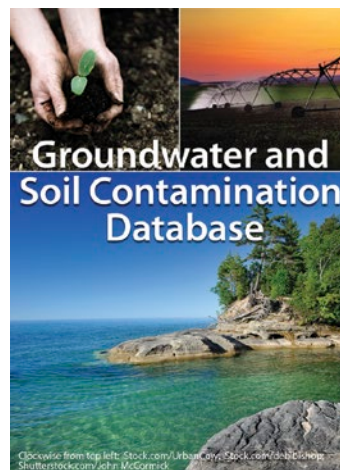
The day pass is a convenient way to obtain information quickly from select GeoRef databases without a longer-term subscription. The day pass provides access over a twenty-four hour period for the low cost of \$12.00. Databases include:



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GOLI

Geoscience Online Learning Initiative

<https://www.americangeosciences.org/workforce/goli>

The Geoscience Online Learning Initiative (GOLI) is an initiative by the American Geosciences Institute, started in cooperation with the American Institute of Professional Geologists, to provide a platform for on-demand, life-long learning and continuing education opportunities in the geosciences. GOLI consists of live webinar events and self-paced on-demand online courses. Interested individuals can register to attend live webinar events where participants interact with content experts and earn CEUs for their attendance. GOLI courses provide learners with the flexibility to actively self-pace their progress, since on-demand courses do not have a set schedule like traditional academic semester-based courses. GOLI courses are brought to you via the OpenedX Learning Management System (LMS) through which learners are able to browse course descriptions, enroll in specific courses, access content, and complete any course free of charge. Learners who complete courses offered through the GOLI platform with a passing grade of 70% or higher are eligible to purchase Continuing Education Units (CEUs) for a nominal fee.

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- **An Introduction to Professional Writing for Geoscience Careers**
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- **Planning for Coastal Storm and Erosion Hazards**
- **Best Practices in Mineral Resource Estimation & Reporting**
- **Professionalism and Geoethics: Creating a Workplace Environment Where Everyone Can Succeed**

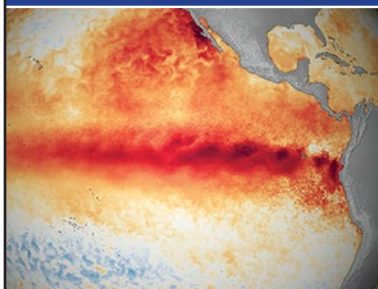
For more information about the Geoscience Online Learning Initiative visit <https://www.americangeosciences.org/workforce/goli> or contact Heather Houlton at hrh@americangeosciences.org. For more information on AIPG and CEUs, visit www.aipg.org.



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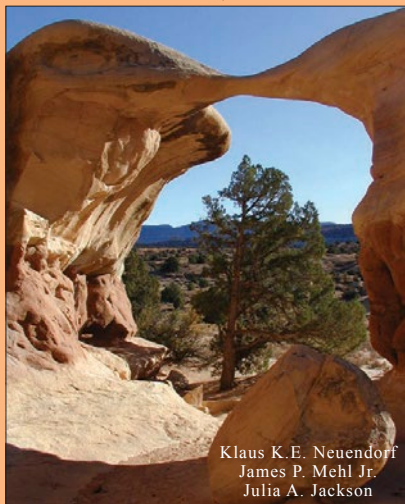
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GEOWORD of the Day

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Fifth Edition, Revised



AMERICAN GEOSCIENCES INSTITUTE

A free service of the

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All of the terms and definitions are from the Glossary of Geology, 5th Edition Revised.

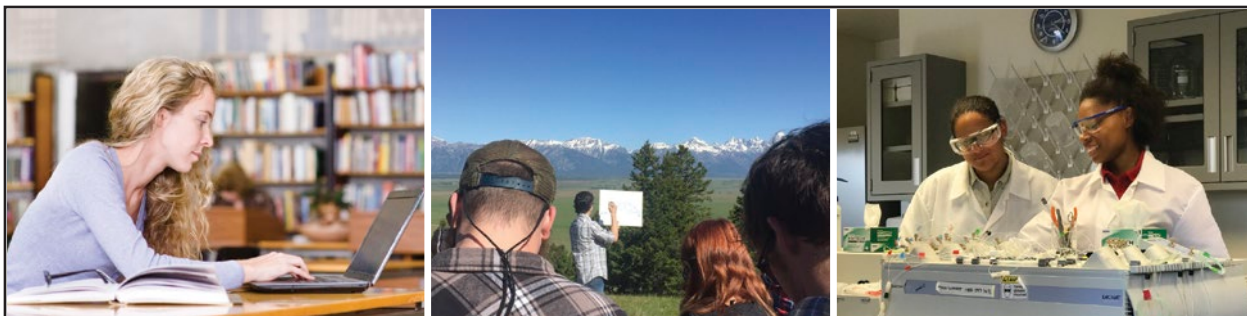
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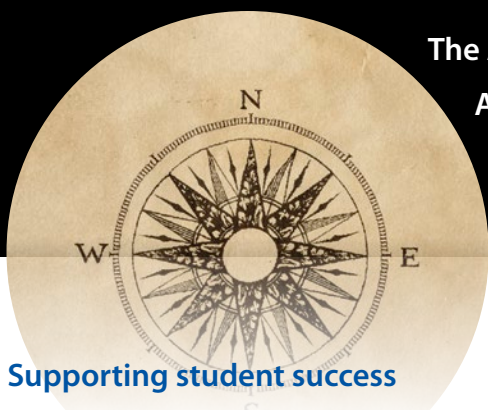
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