

GEOSCIENCE CATALOG

2019

American Geosciences Institute



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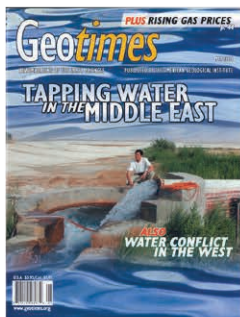
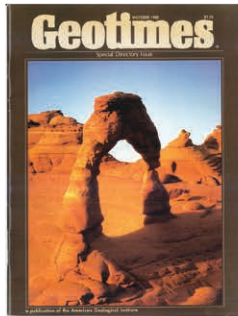
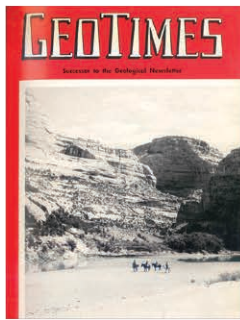
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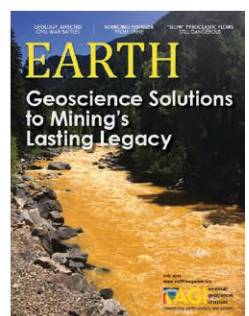
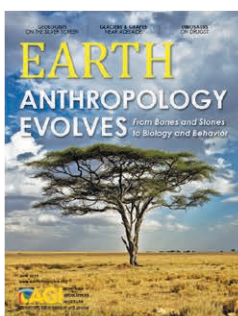
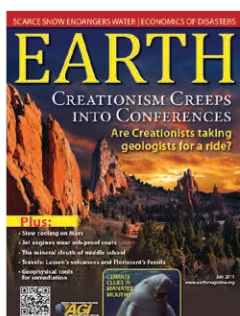
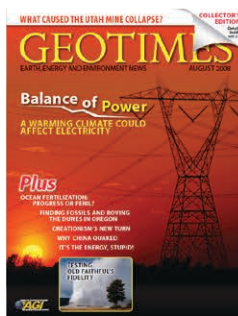
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Cover: Nebraska's Niobrara River displays several terraces as it digs its channel deeper. This page: Algodones Dunes, California | Both images ©Michael Collier, from the AGI Earth Science World Image Bank



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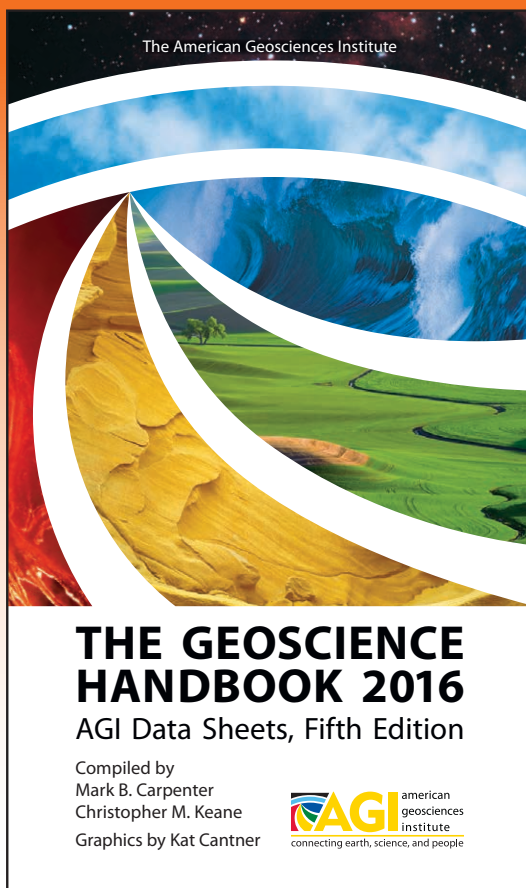
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Fifth Edition**

Mark B. Carpenter,
Christopher M. Keane

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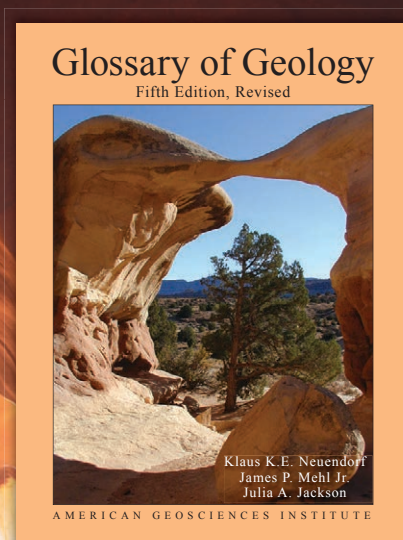
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Fifth Edition*

Edited by Mark Carpenter and Christopher M. Keane
\$59.99

492 pages

ISBN: 978-0-913312-47-6

HOW DO YOU LIKE YOUR GLOSSARY?



Print?

A

A mass number.

aa (a'-a [ah'-ah]) A Hawaiian term for lava flows typified by a rough, jagged, spinose, clinkery surface. Cf: *pahoehoe*; *black flow*. Etymol: Hawaiian. An expletive of pain when walking barefoot on such lava. Obs. syn: *apurellid*.

Adenian (An le' ai an) A stage of the Standard Global Chronostratigraphic Scale: lowermost Middle Jurassic (above Toarcian, below Bajocian). The base (SSP) is at Puenteleche in central Spain (Cecilia et al., 2004).

AAR accumulation area ratio.

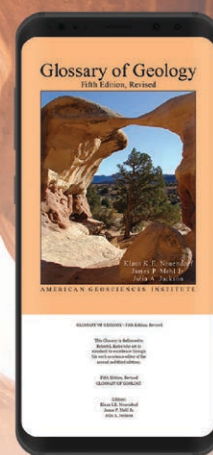
AAS atomic absorption spectroscopy.

a* axis That axis of a reciprocal crystal lattice which is perpendicular to (100). Cf: *h* axis*; *c* axis*.

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

a-axis [ice] In a hexagonal crystal are three *a* axes. They are perpendicular to the *c* axis and make angles of 60° to one another. Cf: *c-axis [ice]*.

a axis [struc petro] One of three orthogonal reference axes, *a*, *b*, and *c*, that are used in two distinct ways. (a) To help describe the geometry of a fabric possessing orthorhombic or monoclinic symmetry. The unique symmetry plane is labelled the *a-c* plane, and *a* lies at the intersection of this plane with a prominent 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

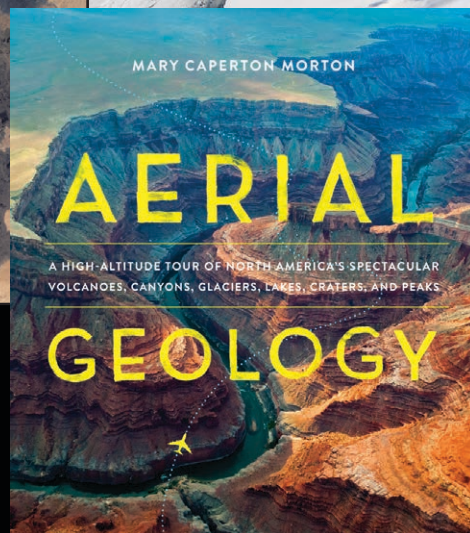


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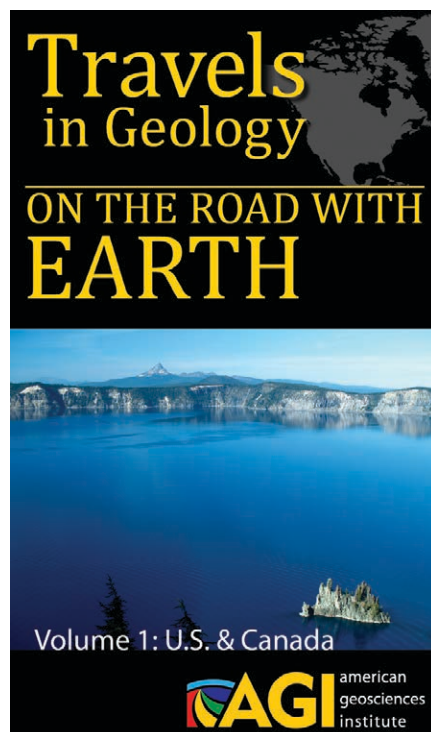
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Megan Sever, Sara Pratt, and Erin Wayman

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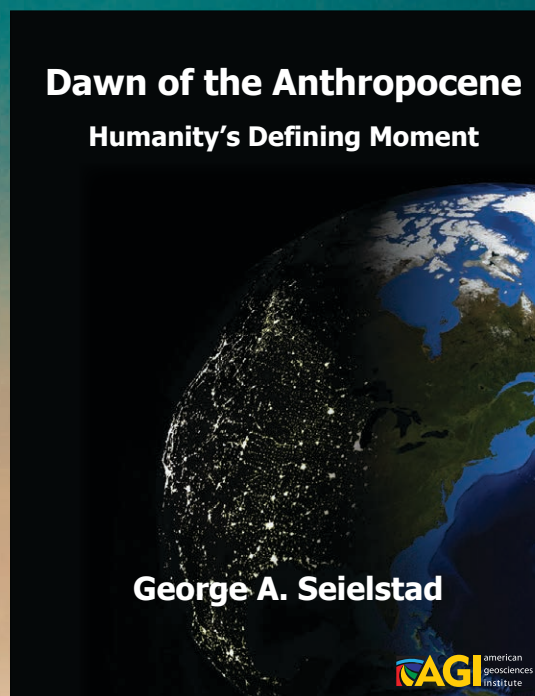
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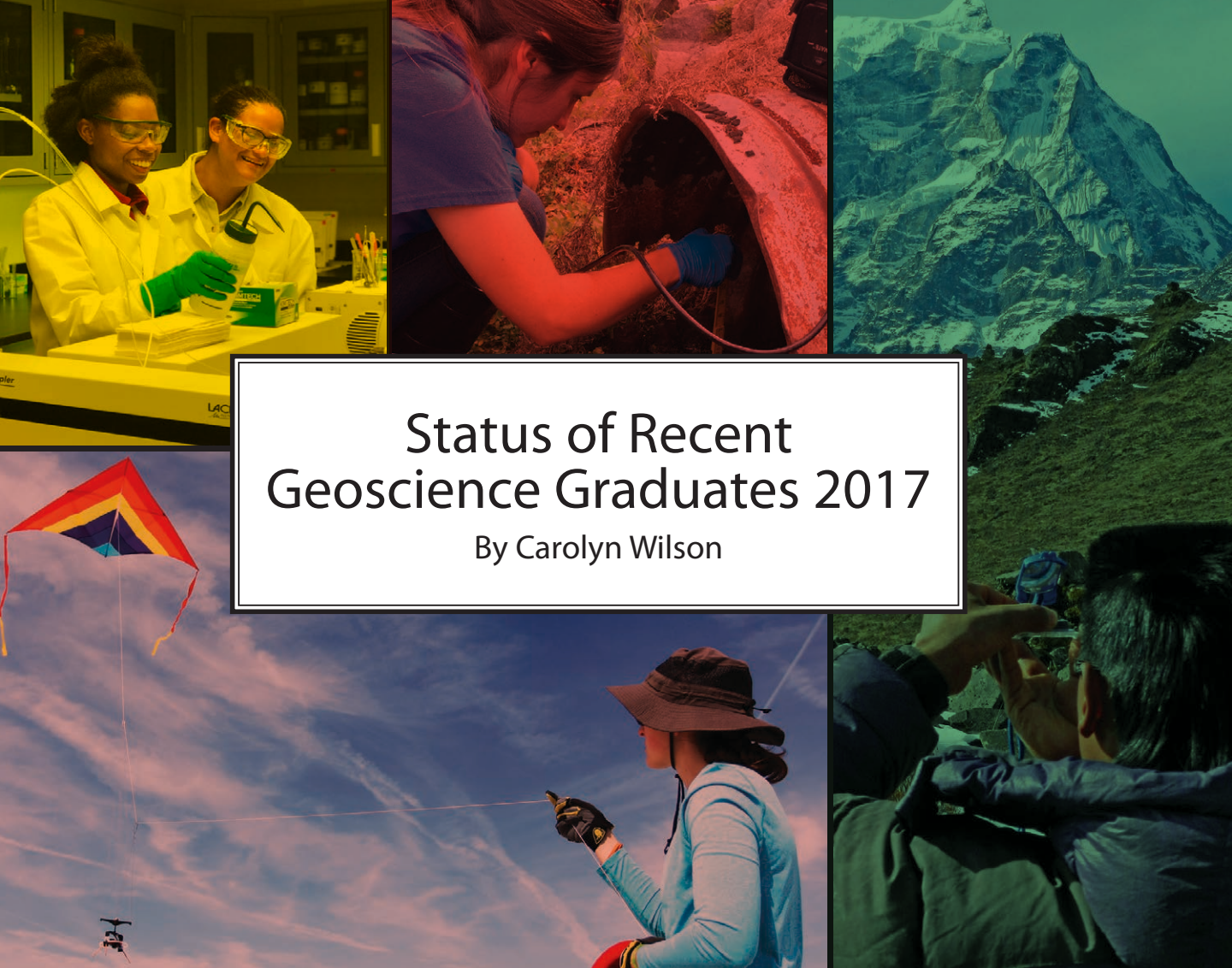
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Status of Recent Geoscience Graduates 2017

By Carolyn Wilson

Status of Recent Geoscience Graduates

2017



Carolyn Wilson



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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The 2018 AGI Status of the Geoscience Workforce Report

Status of the Geoscience Workforce

2018



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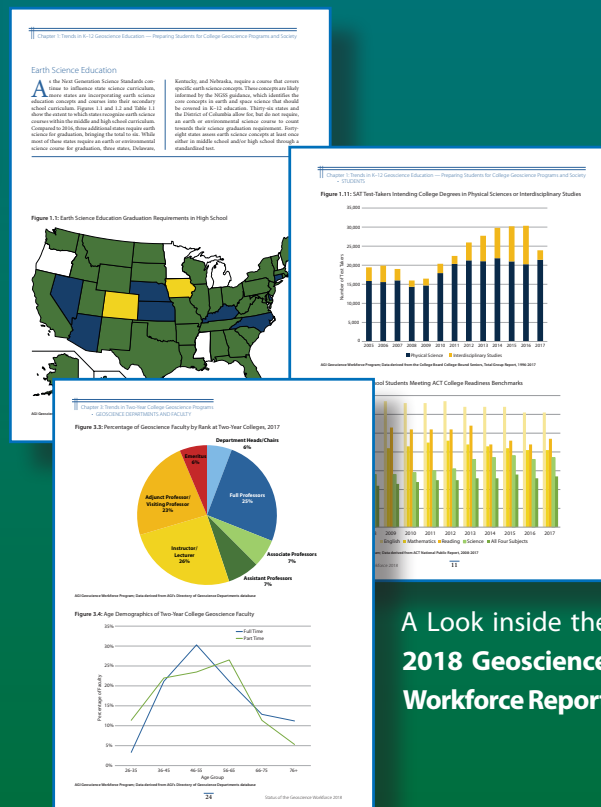
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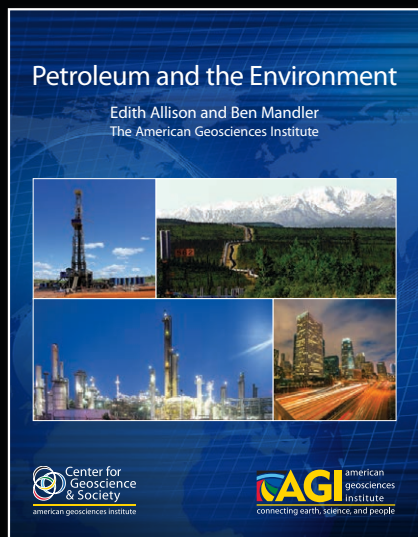
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A Look inside the
**2018 Geoscience
Workforce Report**

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A New Publication From The American Geosciences Institute



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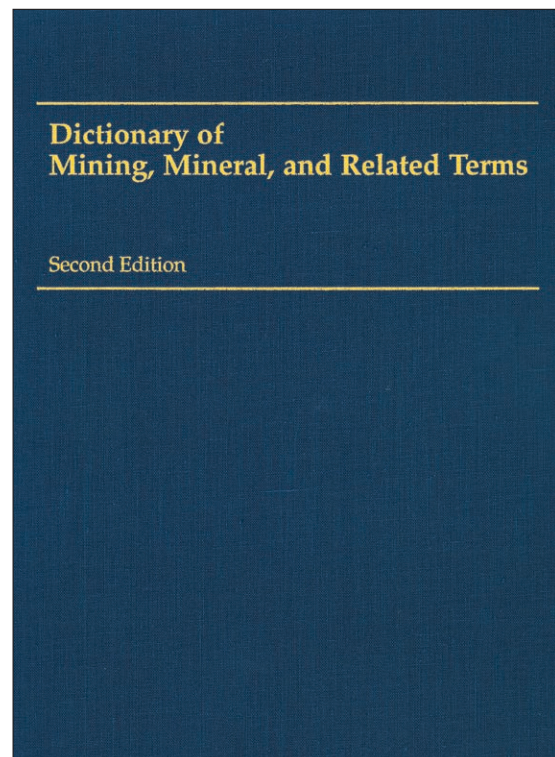
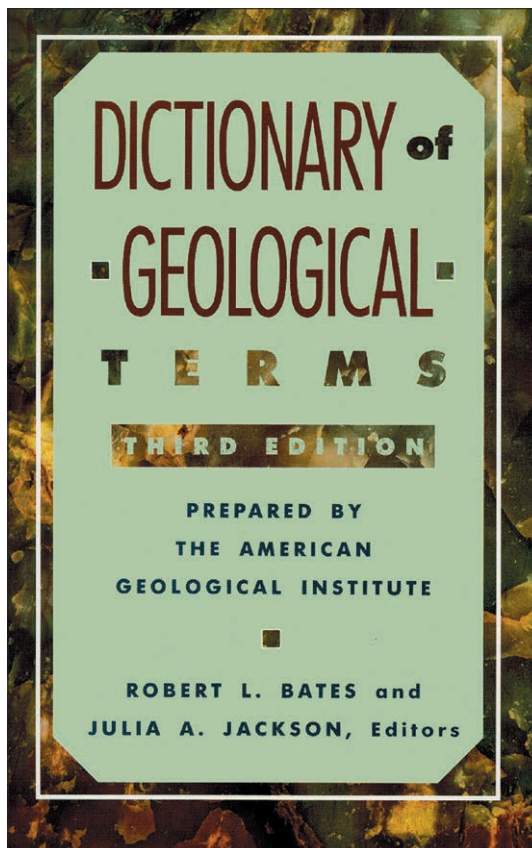
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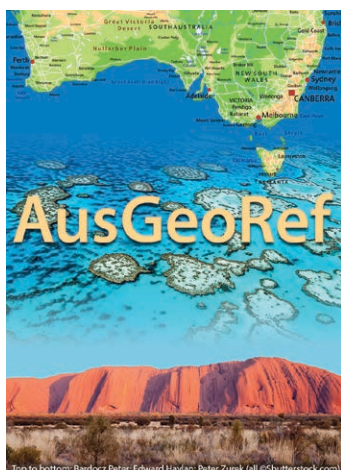
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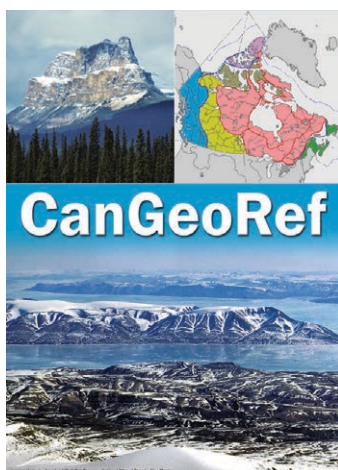


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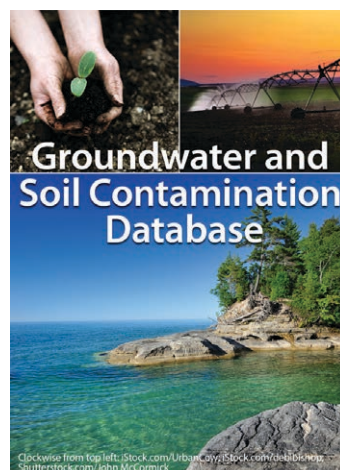
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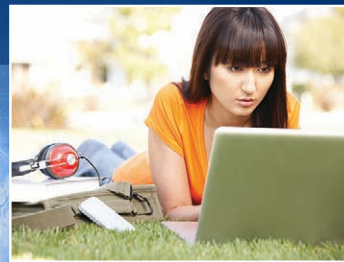
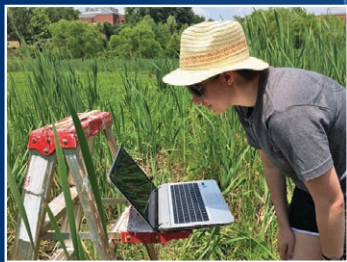
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Geoscience Online Learning Initiative

<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.

Sample courses:

- **An Introduction to Professional Writing for Geoscience Careers**
- **Communicating Cascadia's Earthquake Risk**
- **Basics of Seismic Petroleum Exploration for New Hires**
- **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**

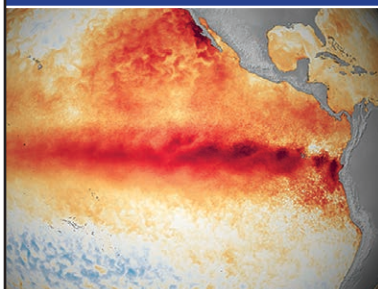
For more information about the Geoscience Online Learning Initiative visit <https://www.americangeosciences.org/workforce/goli> or contact Heather Houlton at hrh@americangeosciences.org. For more information on AIPG and CEUs, visit www.aipg.org.



Background: ©Shutterstock.com/Sergey Nivens. Insets, left: Megan Amanatides; center: Zsuzsanna Toth (both submitted to AGI's 2016 Life as a Geoscientist contest); right: ©iStock.com/Chris Gramly

AGI's Critical Issues Program

<https://www.americangeosciences.org/critical-issues>



Connecting you with the geoscience behind the issues society is facing at the national, state and local levels

- **Climate**
- **Energy**
- **Mineral Resources**
- **Water**
- **Natural Hazards**



We promote evidence-based decision making at all levels using up-to-date, rigorous, and impartial geoscience.

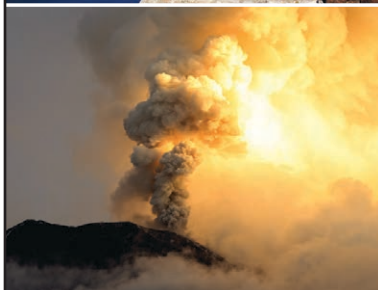
Free information products and events:

- **Live webinars** on societally relevant geoscience case studies and research
- **Professional development** opportunities with continuing education credits offered during some webinars and AGI's Geoscience Online Learning Initiative
- **Case studies** of geoscience solutions to important societal problems
- **Factsheets** on different geoscience topics and the geoscience important to each state
- Hundreds of **maps and visualizations** of geoscience information in your state or community



We also hold occasional **forums** to bring geoscientists and decision makers together.

Help us expand our range of products: send suggestions and questions to cipinfo@americangeosciences.org.



american geosciences institute



connecting earth, science, and people

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GEOWORD of the Day

A free service of the

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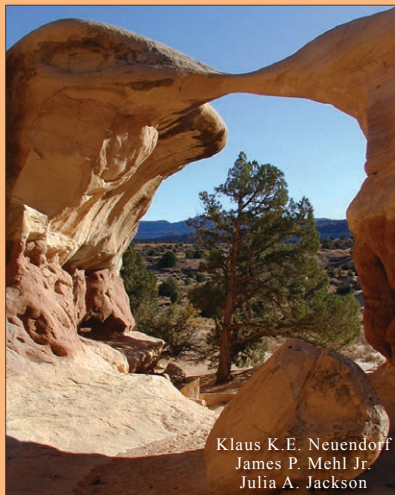
All of the terms and definitions are from the Glossary of Geology, 5th Edition Revised.

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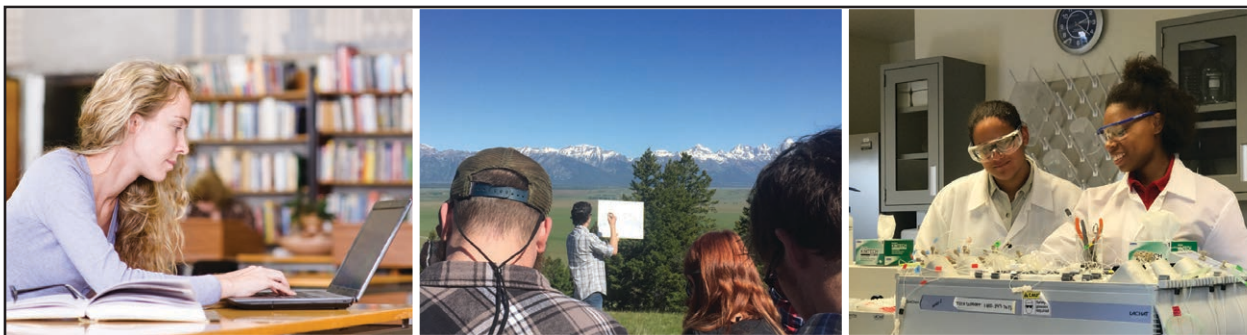
www.americangeosciences.org/word

Glossary of Geology

Fifth Edition, Revised

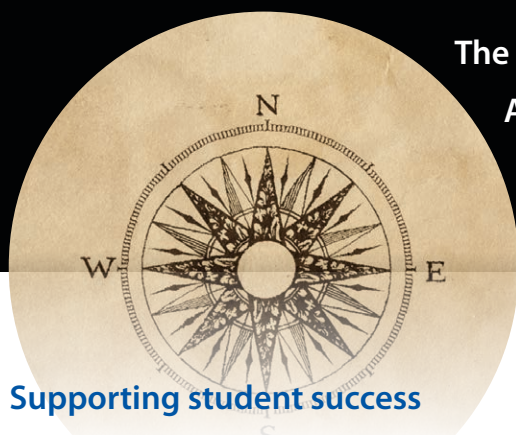


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- University of Idaho — Geological Sciences
- Worcester State University — Earth, Environment and Physics
- Trinity University — Geosciences



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