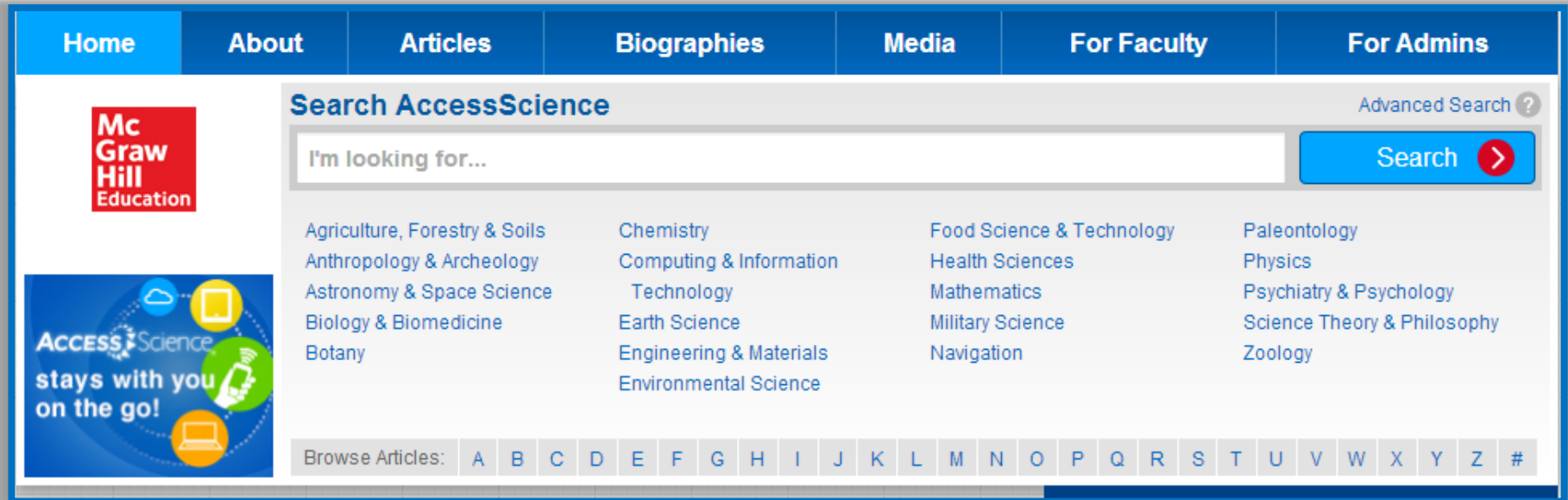




## AccessScience User Guide

## Overview



The screenshot shows the ACCESS Science website interface. At the top is a navigation bar with links: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below this is a search bar labeled 'Search AccessScience' with a text input field 'I'm looking for...' and a blue 'Search' button. To the right of the search bar is a link for 'Advanced Search'. Below the search bar is a grid of science disciplines: Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science & Technology; Health Sciences; Mathematics; Military Science; Navigation; Paleontology; Physics; Psychiatry & Psychology; Science Theory & Philosophy; and Zoology. At the bottom of the grid is a 'Browse Articles:' section with a row of alphabet buttons from A to Z and a '#' button. On the left side of the page, there is a McGraw Hill Education logo and a graphic with the text 'ACCESS Science stays with you on the go!' accompanied by icons for a cloud, a tablet, a smartphone, and a laptop.

- 8500+ articles and Research Reviews encompassing the *McGraw-Hill Encyclopedia of Science & Technology* and the *McGraw-Hill Yearbook of Science & Technology*
- 115,000+ definitions from the *McGraw-Hill Dictionary of Scientific and Technical Terms*
- Nearly 3,000 biographies of well-known scientific figures
- 17,000+ downloadable images and animations
- Curriculum maps tied to core science and engineering courses

# Search & Browse

## Universal Search Engine- Basic Search

Search AccessScience

Advanced Search ?

I'm looking for...

Search >

Agriculture, Forestry & Soils

Anthropology & Archeology

Astronomy & Space Science

Biology & Biomedicine

Botany

Chemistry

Computing & Information Technology

Earth Science

Engineering & Materials

Environmental Science

Food Science & Technology

Health Sciences

Mathematics

Military Science

Navigation

Paleontology

Physics

Psychiatry & Psychology

Science Theory & Philosophy

Zoology

Browse Articles:

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

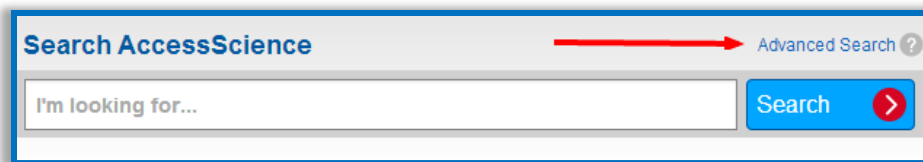
Z

#

- Instantly search across the entire site with a single query
- Optimized search to support Boolean operators AND, OR, and NOT (e.g., tsunami AND Japan)
- Exact phrase searching using quotation marks (e.g., "global warming")
- Asterisks to match partial words (e.g., thermo\*)

## Advanced Search

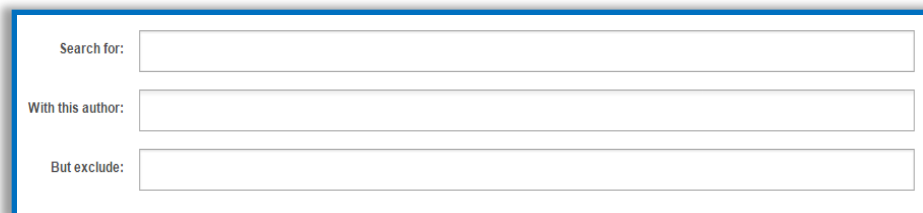
1. Click **ADVANCED SEARCH** above the search bar



**Search AccessScience** [Advanced Search ?](#)

I'm looking for...

2. Enter keywords or phrases into the text boxes

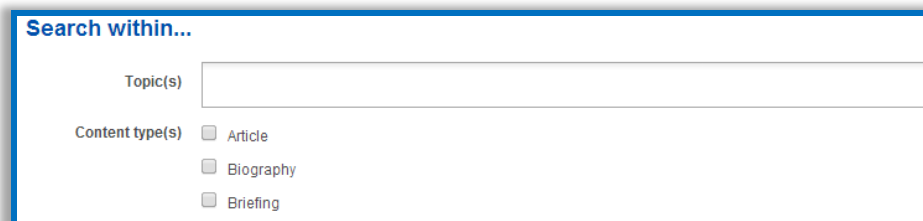


Search for:

With this author:

But exclude:

3. Refine your results by topic or content type



**Search within...**

Topic(s)

Content type(s) ☐ Article ☐ Biography ☐ Briefing

## Narrow Your Search With Filters

Refine this search ▾

Content Type ▴

- ☒ All Content
- ☐ Article
- ☐ Research Review
- ☐ Image
- ☐ News
- ☐ Briefing
- ☐ Video / Animation
- ☐ Image Gallery

Topic ▴

- ☒ All Topics
- ☐ Astronomy & Space Science
- ☐ Biology & Biomedicine
- ☐ Earth Science
- ☐ Engineering & Materials
- ☐ Environmental Science
- ☐ Health Sciences
- ☐ Navigation
- ☐ Paleontology

**tsunami**

54 results

Definition

**Tsunami**

A set of ocean waves caused by any large, abrupt disturbance of the sea surface.

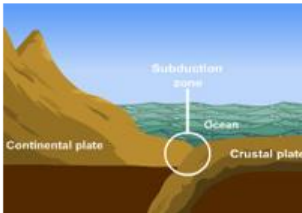
Article + SAVE

**Tsunami**

A set of ocean waves caused by any large, abrupt disturbance of the sea surface. If the disturbance is close to the coastline, a local tsunami can demolish coastal communities within minutes. A very large disturbance can cause local devastation and d...

Video / Animation + SAVE

**Tsunami**



## Browse From the Homepage

The screenshot shows the AccessScience homepage. A navigation bar at the top includes links for Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below the navigation bar is a search section titled 'Search AccessScience' with a search input field and a 'Search' button. To the left of the search section is a sidebar with the McGraw Hill Education logo and a message 'ACCESS Science stays with you on the go!'. Below the search section is a grid of science topics, and at the bottom is an alphabetical list of articles by topic.

**Search AccessScience** Advanced Search ?

I'm looking for... Search

**Topics:**

Agriculture, Forestry & Soils	Chemistry	Food Science & Technology	Paleontology
Anthropology & Archeology	Computing & Information Technology	Health Sciences	Physics
Astronomy & Space Science	Earth Science	Mathematics	Psychiatry & Psychology
Biology & Biomedicine	Engineering & Materials	Military Science	Science Theory & Philosophy
Botany	Environmental Science	Navigation	Zoology

**Browse Articles:** A B C D E F G H I J K L M N O P Q R S T U V W X Y Z #

➤ Browse by specific Topic

➤ Browse an alphabetical list of articles by topic

## Browse Articles

Home About **Articles** Biographies Media For Faculty For Admins

Search AccessScience [Advanced Search ?](#) [Browse Articles](#)

I'm looking for... [Search](#) [Select Topic](#)

AccessScience > Articles > A

### Articles

**Articles A-Z** Articles by Topic

**A** B C D E F G H I J K L M N O P Q R S T U V W X Y Z #

**A**

- A15 - Adap
- Adap - Airc
- Airc - Ambi
- Ambl - Anim

- A15 phases** - [Article]
- Aardvark** - [Article]
- Abaca** - [Article]
- Abacus** - [Article]
- ABC lipid transporters** - [Article]
- Abdomen** - [Article]
- Aberration (optics)** - [Article]
- Aberration of light** - [Article]
- Abrasive** - [Article]
- Abscissic acid** - [Article]
- Abscission** - [Article]
- Absolute zero** - [Article]
- Absorbable orthopedic implants** - [Research Review]
- Absorption** - [Article]

1. Select the **ARTICLES** tab from the main navigation
2. Select **ARTICLES A-Z**



## Browse Articles by Topic

1. Select the **ARTICLES** tab
2. Choose **ARTICLES BY TOPIC** and select the appropriate topic from the left hand navigation

The screenshot displays the ACCESS Science website interface. At the top, the navigation bar includes links for Home, About, **Articles** (highlighted with a red box), Biographies, Media, For Faculty, and For Admins. Below the navigation bar is a search section with the text 'Search AccessScience', a search input field containing 'I'm looking for...', a 'Search' button, and a 'Browse Articles' dropdown menu. The breadcrumb trail indicates the current location: 'AccessScience > Articles > Earth Science > Earth science - general'. The main content area is titled 'Articles by Topic' (highlighted with a red box) and shows a list of subtopics under 'Earth science - general'. The subtopics listed are: Earth - [Article], Earth sciences - [Article], Environmental geology - [Article], Geology - [Article], Geomorphology - [Article], Hyperspectral remote sensing (mapping) - [Research Review], Landslide detection and modeling - [Briefing], Remote sensing - [Article], Supercontinent - [Article], and Topographic surveying and mapping - [Article]. On the left, a vertical navigation menu lists various scientific fields, with 'Earth science - general' highlighted in a blue box. On the right, a sidebar titled 'my ACCESS Science' offers options to 'Save articles, images, searches and more!' and a section 'Trending in this Topic' listing related terms: Argillaceous rocks, Contact aureole, Topographic surveying and mapping, Seamount and guyot, and Blueschist. A 'Back to Top' button is located at the bottom right of the main content area.

## Browse Articles by Topic (continued)

Home About **Articles** Biographies Media For Faculty For Admins

Search AccessScience Advanced Search **Browse Articles**

I'm looking for... Search

AccessScience > Articles > Agriculture, Forestry & Soils > Agriculture, forestry, and soils - general

**Articles**

Articles A-Z **Articles by Topic**

Topic: Agriculture, Forestry & Soils

Select Topic

Subtopics:

- Agriculture, forestry, and soils - general**
- Animal husbandry
- Farming

Subtopic: Agriculture, forestry, and soils - general

- Agribiotechnology - [Research Review]
- Agricultural aircraft - [Article]
- Agricultural chemistry - [Article]
- Agricultural engineering - [Article]
- Agricultural machinery - [Article]
- Agricultural meteorology - [Article]
- Agriculture - [Article]
- Agroecosystem - [Article]

Trending in this Topic

- Genetically modified crops
- Soil mechanics
- Agricultural science (animal)
- Soil fertility
- Cacao

1. Select the **ARTICLES** tab
2. Select **ARTICLES BY TOPIC** and choose the appropriate subtopic from the list on the left hand navigation

## Browse Biographies by Name

Home About Articles **Biographies** Media For Faculty For Admins

Search AccessScience Advanced Search ? Browse Articles

I'm looking for...

AccessScience > Biographies > A

### Biographies

**Biographies A-Z** Biographies by Topic

**A** B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**A**

Aalto, Alvar (Hugo Alvar Henrik) (1898–1976)  
 Abbe, Ernst (1840–1905)  
 Abel, Neils Henrik (1802–1829)  
 Abercrombie, (Leslie) Patrick (1879–1957)  
 Abetti, Giorgio (1882–1982)  
 Abrikosov, Alexei Alexeyevich (1928– )  
 Ackerman, James S(loss) (1919– )  
 Ackerman, Nathan W(ard) (1909–1971)  
 Adam (architects) (Adam)  
 Adams, John Couch (1819–1892)  
 Adams, Robert McC(ormick) (1926– )  
 Adams, Walter Sydney (1876–1956)  
 Addams, Jane (1860–1935)  
 Addison, Thomas (1793–1860)  
 Adleman, Leonard (1945– )  
 Adler, Alfred (1870–1937)  
 Adler, Dankmar (1844–1900)  
 Adrian, Edgar Douglas (1889–1977)  
 Agassiz, (Jean) Louis Rodolphe (1807–1873)  
 Agnesi, Maria Gaetana (1718–1799)  
 Agnon, Shmuel Yosef (1888–1970)  
 Agre, Peter (1949– )

Save articles, images, searches and more!

**Nobel Prize Winners**  
 This world-renowned prize recognizes outstanding contributions.  
 View winners in:  
 Physics  
 Chemistry  
 Physiology or Medicine  
 Economic Sciences  
 Literature  
 Peace

**Fields Medal Winners**  
 Awarded to young mathematicians, the Fields Medal is the world's most prestigious mathematics prize.  
 View Fields Medal Winners

1. Select the **BIOGRAPHIES** tab
2. Choose **BIOGRAPHIES A-Z** then browse from the list of names

\*The  icon indicates a video biography

## Browse Biographies by Topic

Home About Articles **Biographies** Media For Faculty For Admins

Search AccessScience Advanced Search ? Browse Articles

I'm looking for... Search > Select Topic ▾

AccessScience > Biographies > Agriculture, Forestry & Soils

### Biographies

Biographies A-Z **Biographies by Topic**

Topic:  
**Agriculture, Forestry & Soils**

Select Topic ▴

- Agriculture, Forestry & Soils
- Anthropology & Archeology
- Astronomy & Space Science
- Biology & Biomedicine
- Botany
- Chemistry
- Computing & Information Technology
- Earth Science
- Engineering & Materials
- Environmental Science
- Food Science & Technology
- Health Sciences
- Mathematics

Bell, Patrick - [Biography]  
 Carl - [Biography]  
 Emma Lucy - [Biography]  
 George Washington - [Biography]  
 Mary Agnes - [Biography]  
 Nicolas-Joseph - [Biography]  
 Alice Catherine - [Biography]  
 Harry George - [Biography]  
 Obed - [Biography]  
 Cyrus Hall - [Biography]  
 Paul Hermann - [Biography]  
 Arthur George - [Biography]  
 Eli - [Biography]

Back to Top ▲

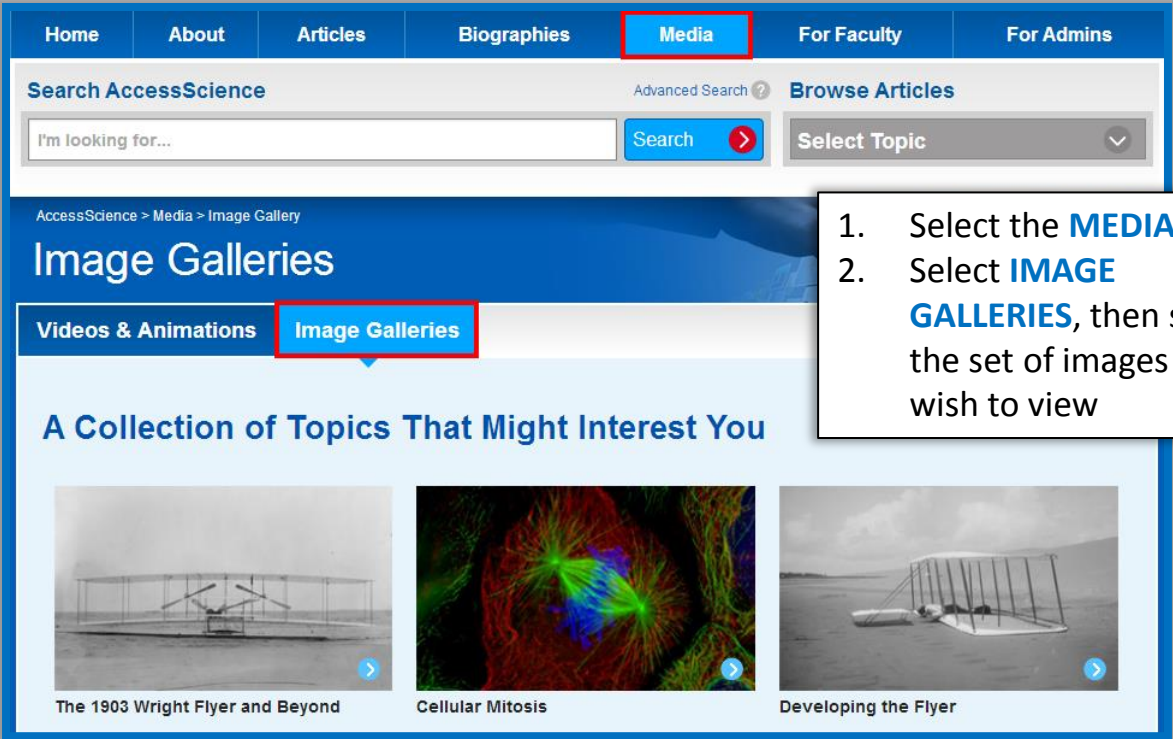
1. Select the **BIOGRAPHIES** tab
2. Select **BIOGRAPHIES BY TOPIC**
3. Choose **SELECT TOPIC** to view the dropdown menu

## Browse Media: Videos & Animations

The screenshot shows the ACCESS Science website interface. At the top, there is a navigation bar with tabs: Home, About, Articles, Biographies, **Media** (highlighted with a red box), For Faculty, and For Admins. Below the navigation bar is a search section with a text input field labeled "I'm looking for...", a "Search" button, and a "Browse Articles" link. Below the search section is a breadcrumb trail: "AccessScience > Media > Video / Animation > Astronomy & Space Science". The main heading is "Media". Below this, there are two tabs: **Videos & Animations** (highlighted with a red box) and "Image Galleries". Below the tabs, there is a red banner with the text "Topic: Astronomy & Space Science". Below the banner, there is a "Select Topic" dropdown menu (highlighted with a red box) showing a list of topics: Astronomy & Space Science, Biology & Biomedicine, Botany, Chemistry, Computing & Information Technology, Earth Science, Engineering & Materials, and Environmental Science. To the right of the dropdown menu, there is a list of video titles, each followed by "[Video / Animation]": "Come... [Video / Animation]", "Earth's Orbit and Seasons [Video / Animation]", "ion of the Solar System [Video / Animation]", "s First Law [Video / Animation]", "s Second Law [Video / Animation]", "s Third Law [Video / Animation]", "of the Moon [Video / Animation]", and "ope Aberration [Video / Animation]".

1. Select the **MEDIA** tab
2. Select **VIDEOS AND ANIMATIONS**
3. Choose **SELECT TOPIC** to view the dropdown menu

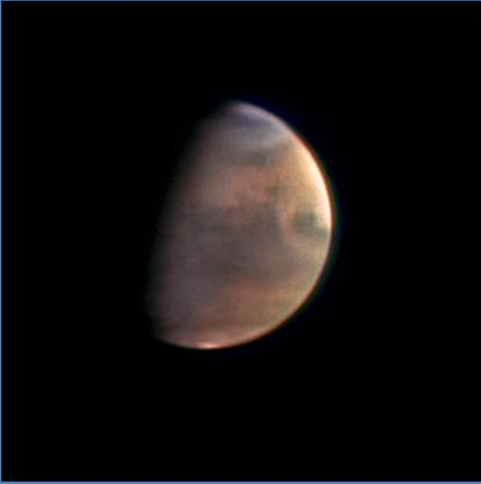
## Browse Media: Image Galleries



The screenshot shows the AccessScience website interface. At the top, a navigation bar includes links for Home, About, Articles, Biographies, Media (highlighted with a red box), For Faculty, and For Admins. Below this is a search bar with the text "Search AccessScience" and a "Search" button. To the right of the search bar is a "Browse Articles" section with a "Select Topic" dropdown menu. The main content area is titled "Image Galleries" and features a sub-navigation bar with "Videos & Animations" and "Image Galleries" (highlighted with a red box). Below this, a section titled "A Collection of Topics That Might Interest You" displays three image thumbnails: "The 1903 Wright Flyer and Beyond", "Cellular Mitosis", and "Developing the Flyer". Each thumbnail has a blue arrow pointing right. A callout box on the right side of the image gallery section contains the following instructions:

1. Select the **MEDIA** tab
2. Select **IMAGE GALLERIES**, then select the set of images you wish to view

## Browse Media: Image Galleries (continued)



<
>

### 1. Mars Express approach

This picture was taken on December 1, 2003, from the European Space Agency's *Mars Express* spacecraft by the High Resolution Stereo Camera (HRSC). It shows planet Mars as seen from a distance of about 5.5 million kilometers (3.4 million miles). Due to the location of the spacecraft, the planet is illuminated in a way that could never be seen from Earth. The Sun shines on part of the western hemisphere, while more than a third of the planet lies in darkness. The dark features at the top are part of the northern lowlands of Mars, where oceans may have existed thousands of millions of years ago. (Image: ESA/DLR/FU Berlin (G. Neukum))

[Download PowerPoint file of these images >](#)

➤ Once selected, image gallery collections can be downloaded to a PowerPoint presentation

# Personal Account



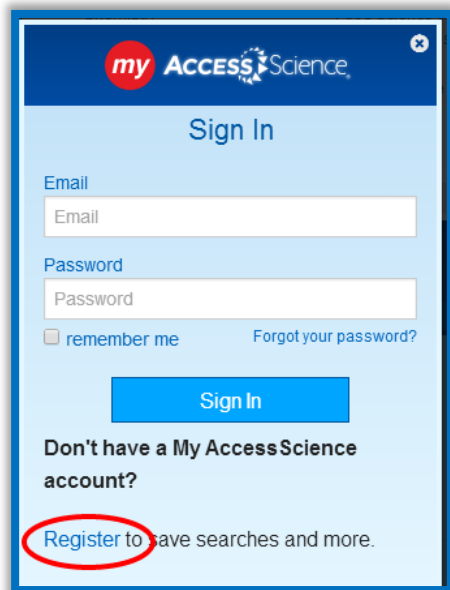
- A My AccessScience personal account allows you to save articles and searches so you can easily refer to them later. You can also save images or image collections to your personal account. A personal account is free to all users at a subscribing institution, and it only takes a few seconds to create.



## Create a Personal Account

The screenshot shows the AccessScience homepage. At the top is a navigation bar with links: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below this is a search bar labeled 'Search AccessScience' with a text input field 'I'm looking for...' and a 'Search' button. To the left of the search bar is the McGraw Hill Education logo and a mobile app icon with the text 'ACCESS Science stays with you on the go!'. Below the search bar is a grid of subject categories: Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science; Health Science; Mathematics; Military Science; and Navigation. Below the categories is a 'Browse Articles' section with letters A through N. The main content area is titled 'Explore' and features two article teasers: 'Switchgrass to ethanol: How engineered microbes are making biofuel' and 'Planck mission: A satellite designed to investigate cosmic microwave background radiation'. On the right side of the 'Explore' section is a box for 'my ACCESSScience' with the text 'Save articles, images, searches and more!'. Below this is a 'Trending on AccessScience' section listing topics like Antigen-antibody reaction, Civil engineering, Dispersal versus vicariance, D'Alembert's principle, and Absorption of electromagnetic radiation. A callout box with a blue arrow points to the 'my ACCESSScience' link, stating: 'To create a new account, click on the **My AccessScience** link on the right hand side of the homepage'.

## Create a Personal Account (continued)



my ACCESS Science

### Sign In

Email  
Email

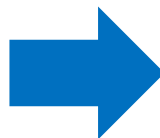
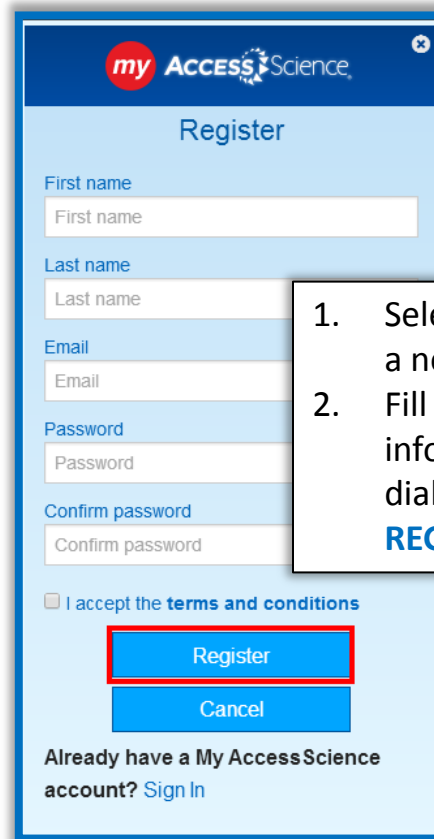
Password  
Password

☐ remember me [Forgot your password?](#)

**Sign In**

Don't have a My AccessScience account?

**Register** to save searches and more.

my ACCESS Science

### Register

First name  
First name

Last name  
Last name

Email  
Email

Password  
Password

Confirm password  
Confirm password

☐ I accept the [terms and conditions](#)

**Register**

**Cancel**

Already have a My AccessScience account? [Sign In](#)

1. Select **REGISTER** to create a new account
2. Fill in the required information in the dialogue box and click on **REGISTER**

## Sign Into Your Personal Account

1. Click on the **My Access Science** button on the homepage
2. Enter your email address and password and click **SIGN IN**


A screenshot of the 'my ACCESS Science' sign-in page. The page has a blue header with the logo and a close button (X). Below the header, the title 'Sign In' is centered. There are two input fields: 'Email' and 'Password', each with a label above it. Below the password field, there is a checkbox labeled 'remember me' and a link 'Forgot your password?'. A blue 'Sign In' button is centered below these fields. At the bottom, there is a link 'Don't have a My Access Science account?' and a link 'Register to save searches and more.'

## Sign Into Your Personal Account (continued)

The screenshot displays the AccessScience homepage. At the top is a navigation bar with links: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below this is a search bar labeled 'Search AccessScience' with a text input field 'I'm looking for...' and a 'Search' button. To the right of the search bar is a link for 'Advanced Search'. Below the search bar is a grid of subject categories including Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science & Technology; Health Sciences; Mathematics; Military Science; Navigation; Paleontology; Physics; Psychiatry & Psychology; Science Theory & Philosophy; and Zoology. Below the categories is a 'Browse Articles' section with a grid of letters A through Z and a hash symbol. On the left side, there is a 'Mc Graw Hill Education' logo and a 'Science stays with you on the go!' banner. In the center, there is an 'Explore' section with two images: a field of green grass and a colorful, abstract image of a galaxy or nebula. On the right side, there is a 'my ACCESS Science' user profile box. This box contains the user's name 'Kalle Covert', their affiliation 'McGraw-Hill Education', and statistics: 'Saved items 2' and 'Saved searches 1'. There are also links for 'My Account' and 'Sign Out'.

- Once you are logged into your account, your saved items and searches will be accessible from the AccessScience homepage

# Save Searches and Images

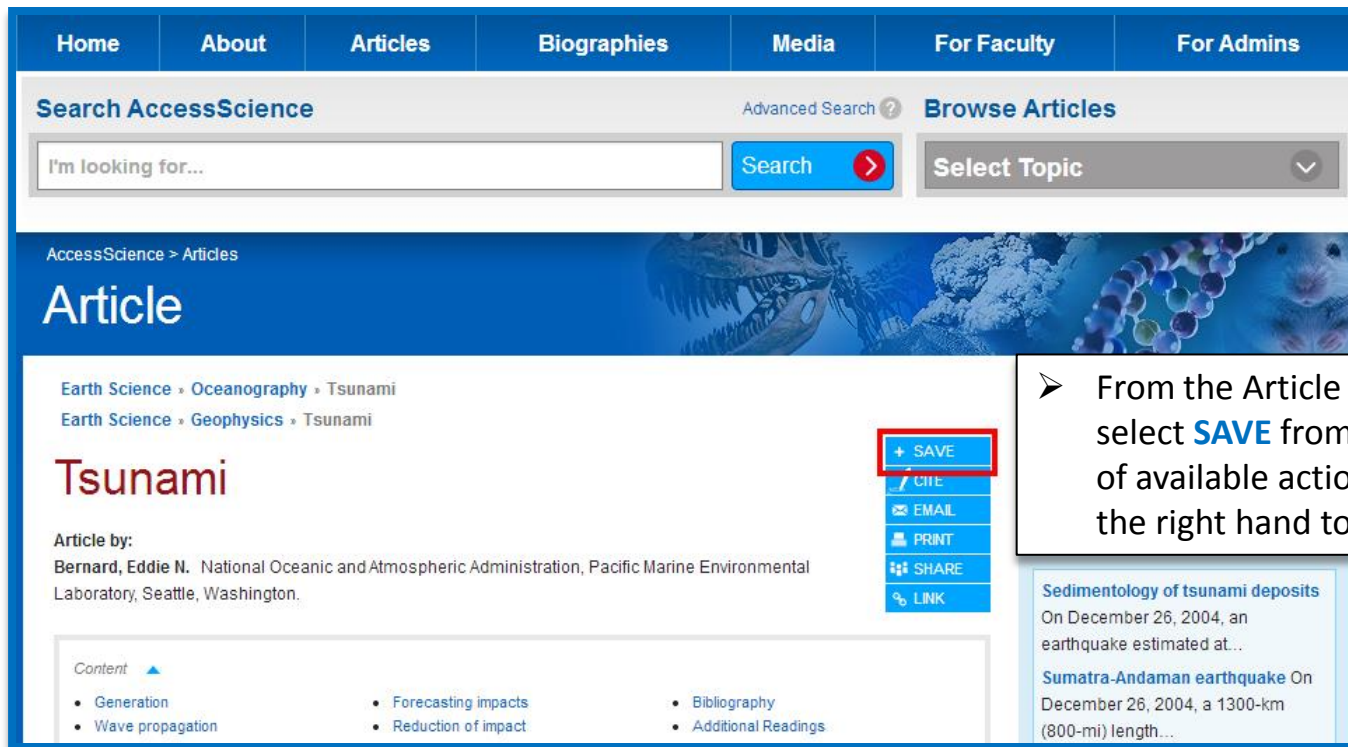
## Save a Search to Your Personal Account



The screenshot shows the AccessScience website interface. At the top, there is a navigation bar with links: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below this is a search bar with the text 'Search AccessScience' and a 'Search' button. The search term 'tsunami' is entered in the search bar. To the right of the search bar is a 'Browse Articles' dropdown menu. Below the search bar, the page displays 'Search Results' for 'tsunami' with 54 results. On the left side, there is a 'Refine this search' section with a 'Content Type' dropdown menu. The 'Save search' button is circled in red in the top right corner of the search results area.

1. Enter a search term into the search bar
2. From the search results page, select **SAVE SEARCH**. The query will automatically be added to your My AccessScience account

## Save an Article to Your Personal Account



The screenshot shows the AccessScience website interface. At the top is a navigation bar with links: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below this is a search bar labeled 'Search AccessScience' with a text input field containing 'I'm looking for...', a 'Search' button, and a 'Browse Articles' section with a 'Select Topic' dropdown. The main content area is titled 'Article' and shows the breadcrumb path: Earth Science > Oceanography > Tsunami. The article title 'Tsunami' is prominently displayed. Below the title, it says 'Article by: Bernard, Eddie N. National Oceanic and Atmospheric Administration, Pacific Marine Environmental Laboratory, Seattle, Washington.' To the right of the article content is a vertical toolbar with buttons: + SAVE (highlighted with a red box), CITE, EMAIL, PRINT, SHARE, and LINK. At the bottom of the article content area, there is a 'Content' section with a list of links: Generation, Wave propagation, Forecasting impacts, Reduction of impact, Bibliography, and Additional Readings. On the right side of the page, there is a sidebar with a section titled 'Sedimentology of tsunami deposits' and a sub-section 'Sumatra-Andaman earthquake On December 26, 2004, a 1300-km (800-mi) length...'.

➤ From the Article page, select **SAVE** from the list of available actions on the right hand toolbar

# Curriculum Maps



## Curriculum Maps

➤ From the **FOR FACULTY** tab, select the desired Curriculum Map from the list on the right hand side of the page

The screenshot shows the AccessScience website interface. The navigation bar at the top includes links for Home, About, Articles, Biographies, Media, **For Faculty** (highlighted with a red box), and For Admins. Below the navigation bar is a search section with a text input field labeled "I'm looking for...", a "Search" button, and a "Browse Articles" section with a "Select Topic" dropdown menu. The main content area features a large banner image with the text "AccessScience!" and a list of Curriculum Maps on the right side, which is also highlighted with a red box. The list includes Astronomy, Biology, Cell Biology, Chemistry, Computing: Databases, and Discrete Mathematics. The main text area on the left describes the purpose of the Curriculum Maps and provides instructions on how to use them.

Our Curriculum Maps guide faculty to highly relevant and engaging content from throughout AccessScience for use in your course. These maps have been designed by leading science and engineering faculty, who have carefully selected useful content, such as tables, graphs, diagrams, photos, animations, and videos, and then mapped that content to the standard topics taught within each course.

You can easily incorporate this content into your curriculum by using our "Copy Link" functionality to paste a direct link into your school's learning management system.

Curriculum Maps:

- Astronomy
- Biology
- Cell Biology
- Chemistry
- Computing: Databases
- Discrete Mathematics

## Curriculum Maps

Course Name

Map Author

Course Topics

Individual Topic

Relevant  
AccessScience  
Content

AccessScience > For Faculty > Curriculum Maps

### Curriculum Map

**Astronomy**

**Author:**  
Martin Hackworth, Senior Lecturer, Idaho State University, Pocatello, Idaho

**Course Topics**

- ▶ Historical Astronomy
- ▶ Celestial Mechanics
- ▶ The Night Sky
- ▶ The Earth-Moon System
- ▶ The Solar System
- ▶ The Sun
- ▶ Stars
- ▶ Galaxies
- ▶ Cosmology

**Historical Astronomy**

Asset	Description
Diagram	<a href="#">This diagram, from the article <i>Archaeoastronomy</i>, shows how some features of Stonehenge were probably used to keep track of celestial events.</a>
Diagram	<a href="#">This illustration, from the article <i>Retrograde motion</i>, shows the Copernican, heliocentric view (as opposed to the geocentric view) of retrograde motion.</a>
Diagram	<a href="#">This illustration, also from the article <i>Retrograde motion</i>, shows the earlier, geocentric view of retrograde motion.</a>
Biography	<a href="#">This biography summarizes the contributions of Ptolemy, noted for his compendium of astronomical knowledge circa the 2nd Century, the <i>Almagest</i>.</a>
Biography	<a href="#">This biography summarizes the contributions of Nicolaus Copernicus, the chief progenitor of the heliocentric view of the solar system in 16th-century Europe.</a>

# Questions?

**Please email [userservices@mhprofessional.com](mailto:userservices@mhprofessional.com)**