American Institute of Professional Geologists
How We Help Students Launch a Career in the Geosciences

STUDENT MEMBERSHIP
TO YOUNG PROFESSIONAL MEMBERSHIP
A Bright Future for Young Geoscientists

- Dept of Labor: between 2019 and 2026, Geoscience jobs to grow by 14% (more than any other profession).

- Many geoscience graduates will be needed for Off-World activities on the Moon, Asteroids, Mars, etc. for NASA and the new U.S. Space Industry, based on Earth.

- Increase in job hiring due largely to retirement of pre-war and post-war “boomer” professionals.

- Recent graduates are entering at a good time, BUT – need to be patient! Getting a good job takes timing and a bit of luck, requires networking with friends and new associates at local and national professional meetings.
### Number of Professionals in U.S. by category:

<table>
<thead>
<tr>
<th>Profession</th>
<th>No.</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Developers</td>
<td>4,400,000</td>
<td>2015</td>
</tr>
<tr>
<td>Lawyers</td>
<td>1,340,000</td>
<td>2017</td>
</tr>
<tr>
<td>Doctors</td>
<td>950,000</td>
<td>2016</td>
</tr>
<tr>
<td>CPAs</td>
<td>665,000</td>
<td>2016</td>
</tr>
<tr>
<td>Geoscientists</td>
<td>32,000</td>
<td>2016</td>
</tr>
<tr>
<td>Geoscientists (projected)</td>
<td>36,500</td>
<td>2026</td>
</tr>
</tbody>
</table>

**Disadvantage:** Not as many jobs available for geoscientists relative to other professions, including Engineers of all types.

**Advantage:** An acute shortage can occur with relatively few leaving the field (retirees)
A Bright Future for Young Geoscientists

If 30% of geoscientists retire before 2026, then:

32,000 – 9,600 = 22,400 (remaining geoscientists in 2026)

36,480 – 22,400 = 14,080 geoscience jobs needed to be filled by 2026 (39% of all geoscience jobs!)

No. of graduates (BS, MS, PhD) 2016 = 5,787

Average salary of geologists (2018) = $70,823, mostly related to oil and gas jobs.
Bye-Bye Baby Boomers!
Hello Millennials!
(or whatever they call you …)
How Do I Get a Job in the Geosciences?

- Be Patient but Persistent
- Increase your odds by being VISIBLE!
- Networking
  - Join national organizations like AIPG
  - Join local organizations like a state geological society
  - Go to conferences; attend field trips and special lectures / short courses
What is AIPG?

• Founded in 1963

• Largest association dedicated to supporting geology as a profession

• Presently, AIPG has more than 7,800 members in the U.S. and abroad, organized into 36 regional Sections, including the Texas Section: see: AIPG-TX.ORG

• Encourages principles of professional responsibility, public health and safety, and public service

• The only international organization that certifies the competence and ethical conduct of geological scientists
What AIPG Does

- Professional Certification
- Categories of Membership - Certified Professional Geologist, Professional, Young Professional, Associate, and Student.
- Ombudsman (investigate complaints)
- Lobbying on matters related to the geosciences
- Liability Insurance
- Continuing Education
The difference between AIPG and other organizations

- Many organizations represent a particular field of geology (engineering geology, petroleum geology, etc)
- AIPG represents all fields of geological practice
- A member society of American Geological Institute (AGI)
Student Membership Benefits

- Free
- Undergraduate and Graduate Scholarships
- Make Professional contacts
- Access to meetings and field trips
- Mentorship
- Can post resume and do job searches
- Publish articles in *The Professional Geologist*
- *Texas Section Scholarships*
Scholarships

• In 2017 AIPG awarded...
  • 6 undergraduate scholarships in the amount of $1,000
  • 2 graduate scholarships in the amount of $1,000

• Some state sections offer additional undergraduate/graduate scholarships and scholarships for field camps

• See Texas Scholarships

The Shoemaker Scholarships ($2,500)
2016, 2017 & 2018
University of Texas - El Paso (UTEP)

Presented by Mike Jacobs, P.G.
AIPG-TX District I Representative
Mentorships

• What’s the industry like in your field of interest?
• Is the industry going through major changes?
• Do you need a post-graduate degree?
• How is the job market (in the state you live or want to live in)?
• What can I do to prepare?
• Difference between working in government and private sectors?
Section and Annual Meetings
Executive Committee Meeting & Field Trip
Denver, Colorado

Inspecting oil-bearing and U roll front
Dakota SS – Denver Basin
Section and Annual Meetings

Fieldtrip Guidebook (here)

AIPG TEXAS SECTION
Field Trips and Training Programs

For details see TPG, PDF pp. 44 to 45 (more)
AIPG
ARIZONA
SECTION
FIELD TRIP

ASU’s Dr. Ron Dorn led field trip to South Mtns: evolution of drainages
AIPG
ANNUAL
MEETING

ANCHORAGE, ALASKA

Denali – visible 30% of the time!

Usibelli Coal Mine Control Room

Denali National Park tour led by NPS geologist Denny Capps
AIPG ANNUAL MEETING
SANTA FE, NEW MEXICO

Near Los Alamos and the Valles Caldera
AIPG ANNUAL MEETING

NASHVILLE, TENNESSEE

Gordonsville UG Zinc Mine
Tennessee

Mammoth Cave / Corvette Museum
What Does it mean to be an AIPG Student Chapter?

- An AIPG Student Chapter is a resource for students to learn about professionalism in the geosciences. To gain insight on careers of interest prior to college graduation.

- AIPG Student Chapters can host/participate in events, workshops, meetings, and fieldtrips to learn valuable tools in preparation for post-graduation and make professional contacts.

To help bridge the long distances in Texas: The Virtual Statewide AIPG Chapter (here)
Transitioning to a young professional

• Graduate school or starting a career?
• Do I want (or have) to move?
• What industries interest me most?
• Is a cover letter necessary?
• What can I expect from an entry-level position?
• Should I take the first ASBOG Test ASAP?
• How do I get involved in the geological community?

Lots of Good Company
The Future of Young Professional Memberships

• Young Professional member has been added to the national executive committee

• Bridges the gap between students and professionals! The YP representative acts as a resource for student chapters.

• Insight on events, social media, newsletters, marketing, etc.

• YP’s gain the opportunity to have responsibility and leadership roles in AIPG
How Being a member can benefit your career

• Networking is valuable to every business

• AIPG leadership can accelerate your career

• Planning events, AIPG email correspondence, articles in section newsletters or TPG, etc. = GREAT avenue to practice writing skills and collaborating

• The ins and outs of an organization run in a similar way to a business
Continuing Education Credits

- Online courses
- Field trips
- Annual Meetings

The geoscience community is moving in the direction of requiring continuing education requirements for licensure.

- 17+ Webinars online at AIPG website
- **Global Energy Resources: Current and Short Term Predictions** (earn 0.1 CEU's)
- **Basics of Seismic Petroleum Exploration for New Hires**
- Publish your thesis/dissertation (more)
- Contribute/use focused web portals (more)
AIPG Code of Ethics

Adopted December 18, 1990 with modifications adopted October 5, 2016

PREVIOUS

Members of the American Institute of Professional Geologists are dedicated to the highest standards of professional ethics and conduct.

The purpose of this document is to promote the public welfare by fostering the highest ethical standards in maintaining the public's confidence in the professional geologist, and thereby enhancing the stature and prestige of the profession. The Code of Ethics and Standards of Practice of the American Institute of Professional Geologists, hereafter referred to as the Institute, are designed to guide the professional conduct of its members and to provide a basis for the resolution of ethical issues.

Canons

Section 1: General Duties

Members shall be guided by the highest standards of professional ethics and conduct.

Canon 2: Obligations to the Public

Members shall be guided by the highest standards of professional ethics and conduct.

Canon 3: Obligations to Employers and Clients

Members shall be guided by the highest standards of professional ethics and conduct.

Canon 4: Obligations to Professional Colleagues

Members shall be guided by the highest standards of professional ethics and conduct.

Canons

Section 2: Standards of Professional Conduct

1. Professional conduct...
Questions??

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