

Special Opportunities

❖ **H.S. Teachers**

☆ **H.S. Students**

Get access to these materials...

Free Teaching Resources

- for energy, green chemistry, students with disabilities, classroom safety, ...
- access to a science coach
- info on grants for your chemistry classroom, professional development, teaching excellence, ...
- access to Webinars and workshops, Chemistry Clubs
- info on student opportunities

Grants, Scholarships, Competitions for Students

- Project SEED summer research program for disadvantaged students
- Project SEED Scholarships
- ACS Scholars Program: Renewable scholarships for underrepresented minority students
- Chemistry Olympiad, Chemistry Clubs, and more!

These opportunities—and many more—are available to you from ACS, free, or at low cost to members.

Keep reading: There are lots more resources and easy online access to them:

<http://wisconsin.sites.acs.org/k12support.htm>



Materials and Opportunities: for High School Teachers and Students Gathered by the ACS Wisconsin Local Section

❖ ACS Materials and Opportunities for High School Teachers

- **Resources for Teaching** (free or low cost)
 - ❖ **Energy Foundations:** free teaching resources, online, downloadable in PDF format; lab investigations, demos, student readings, and multimedia to teach the big ideas about energy.
 - ❖ **Safety Data Sheets:** downloadable, related to a *ChemMatters* article.
 - ❖ **Landmark Lesson Plans:** inquiry-based student activities designed for use in high school chemistry and history lesson planning; based on ACS Chemical Landmarks.
 - ❖ **Green Chemistry Teaching Resources:** a wealth of information or links to information about green chemistry.
 - ❖ **ACS Examinations Institute:** standardized chemistry assessment and study materials.
 - ❖ **“Hunting the Elements” TV show and educational materials:** links to this PBS NOVA program and related classroom resources; includes “name that element”, a downloadable iPad APP about the elements.
 - ❖ **ACS Guidelines and Recommendations for the Teaching of High School Chemistry:** guidelines for facilities, safety, and professional growth. Available as a downloadable PDF.
 - ❖ **Classroom Safety:** this booklet provides guidelines and recommendations for teaching chemistry at various grade levels.
 - ❖ **Teaching Chemistry to Students with Disabilities:** this booklet addresses needs of students with learning and physical disabilities.
- **Professional Development** (most have fees)
 - ❖ **Membership in American Association of Chemistry Teachers (AACT):** a professional community by and for K–12 teachers of chemistry that is open to educators and anyone with an interest in K–12 chemistry education; membership is \$50/year; offers an online resource library, webinars, access to a science coach, includes subscription to *Chemistry Solutions* online periodical, subscription to *ChemMatters*, member insurance plans.
 - ❖ **Membership in ACS:** regular membership is \$166/year (2017) enables you to be a part of your professional community as well as receive a wide range of benefits including *C & E News*, ACS publications, resources (as listed plus others), career help, and many more. Complete information is online and in the **ACS Member Handbook**.
 - ❖ **Membership in the ACS Division of Chemical Education:** membership in DivCHED is \$20/year, \$10/year for students; this ACS Division serves as a means of focusing and enhancing the interests and efforts of all constituencies involved in the teaching and learning of chemistry, at every level. The **Division’s website** has a pulldown membership application; more information about the Division is on a free **Facebook page**.
 - ❖ **Alternative Teacher Certification for High School Chemistry:** has information about alternative routes to teacher certification for those who have at least a bachelor’s degree in chemistry.
 - ❖ **Webinars and Workshops:** check the ACS web site for current information, both upcoming and archive.

Continued...

ACS Resources: High School Teachers and Students

❖ ACS Materials and Opportunities for High School Teachers (continued)

- **Publications** (by subscription or purchase)
 - ❖ **ChemMatters Magazine:** available to teachers, for students; published 4 times/year; by (inexpensive) subscription to teachers in print, electronic, or both; makes connections between chemistry and the real world of students, reveals chemistry at work in everyday life. First published in 1983, back issues available.
 - ❖ **Chemistry in the Community (ChemCom) Textbook:** Explores fundamentals of chemistry through societal issues, with emphasis on organic, bio-, environmental, and industrial chemistry.
 - ❖ **Journal of Chemical Education:** 12 issues/year, print and/or online, published since 1924, find complete subscription information for individuals and institutions online.
- **Grants, Awards** (by nomination or application)
 - ❖ **ACS-Hach High School Chemistry Classroom Grant:** grants of up to \$1500 to purchase classroom equipment, develop resources, or pay for a professional development opportunity.
 - ❖ **ACS-Hach Professional Development Grant:** professional development experiences for secondary school teachers, grants up to \$1500.
 - ❖ **ACS Division of Chemical Education Region Award for Excellence in High School Teaching:** to recognize, encourage, and stimulate outstanding teachers of high school chemistry in the ACS Regions; by nomination.
 - ❖ **James Bryant Conant Award in High School Chemistry Teaching:** an ACS award presented annually, by nomination, to recognize, encourage, and stimulate outstanding teachers of high school chemistry in U.S. possessions, and territories, at the national level; award of \$5000, a certificate, travel allowance.

★ ACS Offerings for High School Students

- **Advantages and Opportunities** (available to *all* high school chemistry students, by application)
 - ★ **Project SEED:** 8- or 10-week opportunities for disadvantaged students; summer research experiences in academe, industry, government labs; mentoring, opportunities to attend and present results at ACS meetings. Available for one or sometimes two years.
 - ★ **Project SEED Scholarships:** assists former SEED participants in transition from high school to college with non-renewable college scholarships.
 - ★ **ACS Scholars Program:** renewable scholarships available to underrepresented minority students who want to enter chemistry or chemistry-related fields; for high school seniors or college freshman, sophomores, or juniors pursuing a college degree in chemical sciences or chemical technology.
 - ★ **ACS-Hach Land Grant (undergraduate) Teacher Scholarship:** for students who want to be teachers.
 - ★ **Chemistry Olympiad:** an ACS-sponsored multi-tiered competition designed to stimulate and promote achievement in high school chemistry; four students are chosen to represent the U.S. in the International Chemistry Olympiad in July, held in a participating country.
- **Advantages and Opportunities** (available to high school chemistry students *through a teacher who is an ACS and/or AACT member*)
 - ★ **ACS Chemistry Clubs:** these are student groups under the leadership of a local teacher; related to ChemMatters magazine (available by inexpensive subscription to teachers from ACS).
 - ★ **ChemMatters Magazine:** available to teachers, for their students; published 4 times/year; by (inexpensive) subscription to teachers in print, electronic, or both; makes connections between chemistry and the real world of students, begun in 1983 with back issues available.