Science Coaches

American Association of Chemistry Teachers
What is Science Coaches?

Connects AACT members with the ACS community in a meaningful way
What is Science Coaches?

One ACS chemist volunteers to help one K-12 teacher.
Teachers must be AACT members & teach at either the elementary, middle, or high school level.

Chemists may be ACS members.
Who can be a science coach?

A chemistry professional at any stage of her/his career

Coaches' Career Field

- Academia: 59%
- Industry: 29%
- Government: 5%
- Nonprofit: 5%
- Other: 2%

Coaches Career Stage

- Working Full Time: 64%
- Retired: 12%
- Semi-Retired: 2%
- Consultant: 2%
- Grad Student: 2%
- Post Doc: 9%
- Seeking Employment: 3%
- Working Part Time: 4%
Not within the scope of this program:

- Teachers mentoring other teachers
- Science supervisors helping teachers
- Married couples
- Undergraduate students
- Sharing a chemist with another teacher
Each partnership is different

Chemists and teachers combine their expertise and enthusiasm for science to enhance the science education experiences of students.
As a grad student at MIT, Shannon served as a science coach at Watertown High School in Watertown MA.
Shannon’s Experience

Shannon is a teacher at East Boston High School.

She has a science coach.
Partnership checklist

- Meet your needs
- Engage the interest and expertise of the volunteer chemist
- Enable you to provide more or better science education experiences for your students
What do partnerships do together?

<table>
<thead>
<tr>
<th>Activities Teachers Found Most Beneficial</th>
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<tbody>
<tr>
<td>Demos and presentations</td>
<td>73%</td>
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<tr>
<td>Lesson planning</td>
<td>71%</td>
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<tr>
<td>Professional development</td>
<td>50%</td>
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<tr>
<td>Career information</td>
<td>46%</td>
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<tr>
<td>Lab preparation and activity ideas</td>
<td>23%</td>
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<tr>
<td>Science Club, ACS ChemClub, or Science Olympiad</td>
<td>4%</td>
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</tbody>
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Requirements

- One school year commitment.
- Approximately 6 visits lasting about one hour
- Two surveys
Interact directly with students.
Visits may be a combination of in-person and virtual visits.
ACS donates $500 to your school!

<table>
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<th>Lab equipment and experiment materials</th>
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<tr>
<td>Science-related field trips</td>
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<td>Professional development opportunities</td>
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</table>
• Three teachers in a group with one chemist.
• All interactions are online.
• Opportunity to ask questions and bounce ideas off one another.
• No monetary donation to the school.
If you do not have a particular chemist in mind, we will try to match you with a chemist in your area.
Why invite a chemist into your classroom?

<table>
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<th>Benefit</th>
<th>Percentage</th>
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<tr>
<td>Increases students' interest in science</td>
<td>84%</td>
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<tr>
<td>Students enjoy chemists' knowledge and help</td>
<td>81%</td>
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<tr>
<td>Helps with content questions from teacher and students</td>
<td>77%</td>
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<tr>
<td>Students learn science from new perspective</td>
<td>76%</td>
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<tr>
<td>Chemist provides help with teaching, mentorship, or professional development</td>
<td>69%</td>
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<td>Opportunity to enhance resources</td>
<td>68%</td>
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<td>Encourages teachers to explore new ideas</td>
<td>65%</td>
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250 partnerships by Sept. 9

Chemists:
www.acs.org/sciencecoaches

Teachers:
www.teachchemistry.org/sciencecoaches

Dropbox:

Webinar Archive: