

UCA Chemistry Department Faculty Service – Conway, AR 72035

Professional service by faculty and students is a significant and defining feature of our department. Below is a list of the ways our faculty and students continue to give back to the community, the state, and the national and international chemical community.

I. Public Service

1. **Outreach - Science nights and chemical demonstrations**

This involves both chemical demonstration shows as well as hands-on activities giving participants a fun and informative introduction to chemistry in the world around them. Most commonly these are held at local schools, and occasionally they are conducted for regional student groups and civic organizations.

2. **Science Fairs and Arkansas Junior Academy of Science**

Because UCA is home to both the finals for the statewide science fair as well as the Arkansas Jr. Academy of Science, faculty and students regularly serve as judges for these events that draw high school students competing from across the state.

3. **High school science fair research mentors**

High school students sometimes enlist faculty in the department to serve as research mentors who guide them in the work of their high schools science fair projects.

4. **High school chemistry Advanced Placement exam prep-sessions**

Once or twice a year, chemistry faculty serve as session leaders for study sessions that prepare students to pass the high school AP Chemistry exam.

5. **Organization of statewide science poster events at the state capitol**

These annual events draw college students from across the state to the state capitol. Students present their work to elected officials, state science policy advisors, and the general public.

II. Professional Service

1. Reviewers of manuscripts for journals and books

The journals and books that faculty are invited to review for enjoy national and international readership. Through this service faculty remain current in their discipline. This avenue also allows them to contribute their expertise for the benefit of many different areas of chemistry.

Some of the journals that faculty review for include:

<i>Applied Spectroscopy</i>	<u><i>J. of Inorganic Biochemistry</i></u>
<i>Chemical Communications</i>	<i>J. of Molecular Structure</i>
<i>Chemical Physics Letters</i>	<i>J. of Nanotechnology</i>
<i>Crystal Engineering Communications</i>	<u><i>J. of Organic Chemistry</i></u>
<i>Current Pharmaceutical Analysis</i>	<u><i>J. of Physical Chemistry</i></u>
<i>Dalton Transactions</i>	<i>J. of the American Chemical Society</i>
<i>European J. of Inorganic Chemistry</i>	<i>Langmuir</i>
<i>Inorganica Chimica Acta</i>	<u><i>Macromolecules</i></u>
<u><i>Inorganic Chemistry</i></u>	<i>Physical Chemistry Chemical Physics</i>
<i>Intl. J. of Envmt. Waste Management</i>	<i>Polyhedron</i>
<u><i>J. of Chemical Education</i></u>	<i>Surface and Interface Analysis</i>
<i>J. of Colloid and Interface Science</i>	<i>Vibrational Spectroscopy</i>
<i>J. of Coordination Chemistry</i>	

2. Reviewing of national and regional grant applications

Faculty are frequently invited to serve as reviewers for statewide (Arkansas Science and Technology Authority, Arkansas INBRE) and national granting agencies (National Science Foundation, National Institutes of Health, Research Corporation, ACS Petroleum Research Fund). This typically involves professional review of single grant applications. Sometimes faculty participate as a member of a committee of reviewers for a large pool of applications.

3. Members of advisory committees and organization boards

Examples include the American Rock Art Association and the Higher Learning Commission.

III. Service to UCA students and student organizations

1. Student American Chemical Society Advisor
2. Student Government Association Advisor