

Shakhashiri is quick to point out that the commission will not decree what professors should do, nor will it devise standards such as those developed for undergraduate education by the ACS Committee on Professional Training.

Instead, he says, the commission will serve as a "platform for a thoughtful conversation about the purposes of graduate education and research in the chemical sciences," including fields such as biochemistry, chemical engineering, and materials science. "We'll have listening sessions at national and regional meetings," Shakhashiri says. "People can also express their opinions via electronic means."

Chemists certainly know the science underpinning their own fields of discipline, Shakhashiri notes. But, he says, "many may not have a similar understanding of the basics of climate science." And that's where Shakhashiri's second task force comes in. The ACS Presidential Working Group on Climate Science will "provide Web-based tools to help chemists in diverse fields understand

New Task Forces On Education, Climate | Chemical & Engineering News

and communicate the basics of one of the great global challenges of the 21st century."

This effort is crucial, Shakhashiri believes. "If, between now and the time I die, I don't succeed in having an intelligent conversation with my neighbor about evolution, that would be very sad," he says. "But if I don't succeed in having an intelligent conversation with my neighbor about climate change, the consequences later in the century could be catastrophic."

Before chemists can carry on that type of conversation, however, they may need some help with the fundamentals of climate science. "Those include an understanding of the value and limitations of climate models, for instance, and the natural and humanrelated factors that can impact Earth's climate," Shakhashiri says. "Chemists might not be aware that any molecule with three atoms or more in the gaseous state is a greenhouse gas," he adds. But only some of these molecules pose problems, and only because their levels are too high. In fact, he notes, if it weren't for greenhouse gases, the Earth would be uninhabitable.

The working group will stick to climate science and will stay away from other climate-related topics, such as the politics or economics of climate change, Shakhashiri says.

Jerry A. Bell, a noted chemistry educator who is a faculty associate with the Wisconsin Initiative for Science Literacy at the University of Wisconsin, Madison, chairs the working group, which began meeting in October.

The group has two goals: to assemble by early 2012 a tool kit of information about the fundamentals of climate science for ACS members and to suggest strategies for engaging others in dialogue on climate science.

The tool kit will serve as the basis for conversations in which chemists communicate climate science to the public. Shakhashiri hopes it will help ACS members engage with members of the public in a productive way.

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