

Conference on Ion Implantation Technology. Jones is on the editorial board of *Nuclear Instruments and Methods in Physics Research*. He has published over 200 papers in the field of defects in semiconductors, written several review chapters on the subject, and edited several books.

Frances M. Ross is a research staff member at the IBM T.J. Watson Research Center in Yorktown Heights, New York. She received her PhD degree on transmission electron microscopy of silicon oxides from Cambridge University, and then worked for two years as a postdoctoral

Fellow at AT&T Bell Laboratories in Murray Hill, New Jersey. During this time she carried out *in situ* electron microscopy experiments on silicon oxidation and dislocation motion in electronic devices. She then spent four years as a staff scientist at the National Center for Electron Microscopy at Lawrence Berkeley National Laboratory, supervising the operation of the Berkeley atomic resolution microscope and the *in situ* microscope and developing specimen holders for dynamic experiments on electrochemical etching of silicon and domain motion in ferroelectric materi-

als. She moved to IBM in 1997 and has recently been studying epitaxial growth processes of semiconductors and silicides by making real time observations in the microscope. Ross' interests include the application of *in situ* electron microscopy to understanding reaction mechanisms, in particular semiconductor growth, surface reactions, and electrochemistry, as well as applied aero- and hydrodynamics. She has organized MRS symposia on Materials in Sports and Recreation and Electron Microscopy of Semiconducting Materials.

MRS

## MRS Featured Volunteer

**Beth Stadler**

*Chair of the Academic Affairs Committee*

### What is your favorite element?

I would have to say oxygen because I can't seem to get enough of oxides, probably having nothing to do with my training as a ceramist! I also remember the image of a hungry oxygen atom devouring electrons which produced surface and grain boundary complications in the devices Prof. Tuller discussed in my grad classes at MIT. It may also explain why, when we were looking for a new car, I wanted a Lumina so that I could get vanity plates Al<sub>2</sub>O<sub>3</sub>, get it? In fact, I think I'd die without oxygen.

### What do you read first in MRS Bulletin?

I like to read University Chapter News first, if there is a submission for the month.

### What was the last book you read?

Besides the textbooks I consider for classes and MRS Proceedings, I'm reading *Great Expectations* by Dickens when I find time.

### What inspired you to be a materials researcher?

My first inspiration that led to a career as a materials researcher was my crazed high school chemistry teacher Mr. Yanchunas (fondly called Doc Yan). He was great at portraying the mad scientist with a handlebar mustache and goatee and dimples that appeared when he was about to explode something. I hadn't heard of materials science, but I



aimed for inorganic chemistry when I got to Case Western Reserve and the MSE department supplied excellent mentors after that.

### What did you first do as an MRS volunteer?

Slade Cargill asked me to join the Membership Committee as a student rep after I hosted his visit to our student seminar series. As a first duty, I designed a form for chapters to use in submitting their annual reports.

### What is your Motto?

The light shown in the darkness, but the darkness has not understood it.

### If you were not a materials researcher, what would you be?

I have visited a 4th grade class at St. Odellias in the Twin Cities. The students misread my name which Mrs. Ruzynski had written on the board as Mrs. Stadler and they called me Mrs. Scientist. I've always thought it would be fun to be a professional promoter of science as Mrs. Scientist, PhD!

### What common household item do you use in your lab?

Scotch Brite™ removes next to anything from a vacuum chamber almost as well as from a kitchen sink.

*Beth Stadler has chaired the Academic Affairs Committee since 1996. Prior to that, she chaired the Special Projects Subcommittee, served on the Membership Committee, and co-organized Symposium M on Integrated Magneto-Optics—Materials and Devices for the 1998 MRS Spring Meeting. She is a professor at the University of Minnesota.*

To contribute to MRS Featured Volunteer, send in your responses to the questions to *MRS Bulletin*, 506 Keystone Drive, Warrendale, PA 15086-7573; fax 724-779-8313, USA; e-mail Bulletin@mrs.org. Include your name, volunteer activity, address, fax, and e-mail.