

## **A Framework and Suite of Adaptable Instruments for Examining Fidelity of Implementation** *Jeanne Century, University of Chicago*

**Question(s) for Discussion:** How can we examine the fidelity of implementation of curricular and professional development interventions?

**Session Description:** The session will focus on the Applying Research on Science Materials Implementation: Bringing Measurement of Fidelity of Implementation (FOI) to Scale project at the University of Chicago. This project is developing a suite of instruments for measuring the fidelity of implementation of instructional materials that includes a school leader questionnaire and interview protocol, a teacher instructional questionnaire and interview protocol, a classroom observation protocol, a school-wide observation protocol, and a teacher attitude questionnaire. As described in a session at last year's PI meeting, the instruments originally focused on five standards-based science programs (FOSS, STC, Science Companion, IES, and SEPUP) and the Everyday Mathematics program. These instruments were designed for a range of users (school leaders, district leaders, researchers) who can use them for a range of purposes. Since their initial creation, the instruments have been customized for use with other mathematics and science curricula, as well as for evaluations of after-school and professional development programs. In addition to the suite itself, the project is creating a User's Guide that provides suggestions for using the instruments in different contexts for particular questions, and guidelines for adapting them for use with other interventions.

The proposed session is a follow-up to last year's session that presented on the FOI framework, critical components for science and mathematics curricula, and the associated suite of instruments. This year's session will build on that session by providing guidance from our experience on adaptation and customization of instruments to a variety of interventions. This session will give participants ideas for using the suite of instruments and provide firsthand experience customizing the critical components measured to different programs. Additionally, we will describe the many different uses of the framework and instruments, including comparing two different programs, comparing a new program to "business as usual," comparing two editions of the same program, as well as use in evaluation of professional development and other interventions. Along with describing each of these uses we will provide our own insights resulting from our experiences customizing the instruments. The session begins with a 20-minute overview of the FOI framework, critical components, and instruments. Participants will take about 20 minutes to work through a critical component worksheet, identifying which critical components apply to their programs and which, if any, are missing. Then, participants will have another 20 minutes to share their thoughts on the process and any new questions or comments they have. Following this discussion, the last 15 minutes will include a presentation of the different types of instrument customizations we have done, along with the challenges encountered by each type. The goals of the session are to give participants an opportunity to think about the critical components of their programs and how they might be similar or different from those of other programs; to share information about our existing suite of instruments; and to help participants consider if and how these instruments may be customized and used in their work.