On behalf of the Program Committee and our host institutions, Indiana University-Purdue University Indianapolis, the Rose Hulman Institute of Technology, and Purdue University, we invite you to participate in the 36th Frontiers in Education Conference.

The theme for this year, Pedagogies and Technologies for the Emerging Global Economy, was chosen to reflect some of the most relevant and pressing issues facing the Computer Science, Engineering, and Technology (CSET) education community as we try to adapt to the changing landscape of the global economy. The theme reflects the need to look at new pedagogies through practice and research, as well as current and emerging technologies and their effects on the presentation and content of CSET curricula. The program committee, with representatives from the three sponsoring organizations—the Education Research Methods Division of ASEE, the IEEE Education Society, and the IEEE Computer Society—has produced an exciting program that continues the rich tradition of FIE as a leading international forum for sharing ideas and best practices from classroom practice, research, and technologies advancement.

The conference begins with an exciting array of pre-conference workshops. The main program is a blend of full papers; cutting edge works-in-progress; and highly interactive, nontraditional sessions from across CSET education. This year’s FIE 2005 promises to uphold many of the FIE traditions and to offer some new twists. Hope you will join us in Indy!

—William Oleske, David Voitmer, and Charlie Yokomizo, Conference General Chairs

The 2005 FIE keynote address will be given by Dr. Tina Seelig, the Executive Director of the Stanford Technology Ventures Program (STVP), the entrepreneurship center at Stanford University’s School of Engineering. STVP is dedicated to accelerating high-technology entrepreneurship research and education for engineers and scientists worldwide.

Over the course of their education, we teach students how to add and subtract, to read both the periodic table and a balance sheet, and to dissect both a frog and a poem. In addition to these traditional skills, what do our students need to learn about innovation, leadership, and entrepreneurship? What are our missed opportunities as educators? How can we make school even more valuable? In this talk, Dr. Tina Seelig will discuss what she wishes she knew when she was in school and what our current students need to know to be successful after they graduate. Don’t miss this dynamic talk, featuring video clips from entrepreneurial thought leaders, which will provide insights into teaching students about opportunity recognition, risk-taking, team-building, and leadership.

WELCOME

TECHNICAL SESSIONS

The FIE 2005 technical program will offer 75-80 sessions, presented in parallel tracks. The conference includes three distinct session formats:

- **Paper sessions** include formal presentation of peer-reviewed full papers (describing completed work) and works-in-progress (describing preliminary developments of ongoing, cutting-edge projects). Approximately 250 paper presentations are expected.
- **Panel sessions** consist of short presentations by several speakers, followed by a question and discussion period with the audience.
- **Interactive special sessions** use a variety of nontraditional formats, topics, or both, emphasizing involvement of all audience members in active learning.

A complete schedule of technical sessions, including topics and abstracts, will be available on the conference Website in July.

PRE-CONFERENCE WORKSHOPS

On Wednesday afternoon and evening, FIE will feature three-hour workshops—highly interactive sessions selected for their timeliness and value. Workshops provide concentrated professional development, and the range of topics offers opportunities for everyone from new faculty members to the most experienced educators to expand their skills and knowledge. Refer to the conference Website for the workshop schedule and detailed workshop descriptions. Registration for individual workshops is required, and each carries a nominal fee with a discount for multiple registrations.

EXHIBITS

The Frontiers in Education vendor and association exhibits have become a popular and rewarding tradition for attendees and exhibitors. Exhibits will include materials, equipment, textbooks, software, and state-of-the-art tools applicable to engineering education. A list of exhibitors, as well as applications for exhibitors, is available on the conference Website.

The exhibit area will be adjacent to the registration area and near the technical session rooms. Refreshment breaks on Thursday and Friday will be held in the exhibit area, and a special Focus on Exhibits session will be held Thursday afternoon. The Exhibitor Showcase on Friday will provide an opportunity to hear more detailed presentations by a number of exhibitors.

GUESTS

By registering with a paid participant, spouses and other guests are eligible to participate in the three conference breakfasts, refreshment breaks, and Thursday Eiteljorg Museum of American Indians and Western Art reception. Guests are welcome to attend the lunches or the banquet for an additional fee. Guests do not attend conference technical sessions.

The Westin Indianapolis hotel is located in a strategic location within the city. A number of museums, a zoo, a huge indoor mall, and a park are easily accessible from the hotel. In addition, tour of the Indianapolis Motor Speedway and a covered bridge and fall color tour of the well known Parke County are planned. For details and costs for the tours, see the conference Website.

WELCOME
Indianapolis, the nation’s 12th-largest city, has gone through a dramatic revitalization and a stunning renaissance and boasts the presence of big-city style and small-town charm. You’ll find Indy a fresh and diverse city, with an array of arts, cultural attractions, and historical sites. The Westin Indianapolis is a 35-story contemporary structure, providing spectacular views of the city from all sides.

Located between the Indiana Convention Center/RCA Dome and the state capital, the Westin is fronted by the beautiful Capitol Commons Park. The hotel provides full services, including restaurants, a business center, and exercise facilities. Some of the city’s finest shops, restaurants, and attractions are conveniently connected to the hotel. A short walk takes you to the RCA Dome, Conseco Fieldhouse, Victory Field, the NCAA Hall of Champions, museums, the IMAX theater, and the Indianapolis Zoo.

Cost: $149, single or double.

A block of rooms has been reserved until 5:00 p.m. on Tuesday, September 27. After that date, room availability and rates cannot be guaranteed. To receive the conference rate of $149, single or double plus tax, you shall be attending the Frontiers in Education Conference. Room rates apply three days before and three days after the conference dates.

The hotel will require a deposit (check, money order, or credit card) to guarantee an individual reservation. All guaranteed reservations will be ensured by written or verbal confirmation from the hotel. Guaranteed reservations will be held until at least 6:00 a.m. the morning following your stated arrival date, at which time the reservation and deposit will be forfeited. The hotel will refund deposits if notice is received before 8:00 p.m. on your arrival date. Non-cancellation and late checkout charges will be assessed without penalty. If you check out prior to the reserved check-out date, the hotel may charge an early departure fee of $75.00.

To make your own lodging arrangements, visit www.fie-conference.org.