

ICER 2005

**The First International Computing
Education Research Workshop**

**Department of Computer
Science
University of Washington
Seattle, Washington**

Saturday, October 1

- 9:00 AM Invited Talk, Empirical Insights into Stages of Engineering Design Expertise
Cindy Atman
- 10:00 AM Coffee Break
- 10:30 AM What Novice Programmers Don't Know
Gary Lewandowski, Alicia Gutschow, Robert McCartney, Kate Sanders, and Dermot Shinnery-Kennedy
- 11:00 AM Factors Affecting the Success of Non-Majors in Learning to Program
Susan Wiedenbeck
- 11:30 AM Impact of Alternative Introductory Courses on Programming Concept Understanding
Allison Elliott Tew, W. Michael McCracken and Mark Guzdial
- 12:00 PM Lunch
- 1:30 PM Students' Alternative Standards for Correctness
Yifat Ben-David Kolikant
- 2:00 PM Personalizing and Discussing Algorithms within CS1 Studio Experiences
Christopher D. Hundhausen and Jonathan Lee Brown
- 2:30 PM Pattern Oriented Instruction and the Enhancement of Analogical Reasoning
Orna Muller
- 3:00 PM Coffee Break
- 3:30 PM Strategies that Students Use to Trace Code: An Analysis Based in Grounded Theory
Sue Fitzgerald, Beth Simon, and Lynda Thomas
- 4:00 PM Examining the Role of Self Regulated Learning on Introductory Programming Performance
Susan Bergin, Ronan Reilly, and Desmond Traynor
- 4:30 PM Software Engineering as a Model of Understanding for Learning and Problem Solving
J. Paul Gibson and Jackie O'Kelly
- 5:00 PM RETURN TO HOTELS
- 6:00 PM Banquet, Portage Bay Café

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Sunday, October 2

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| 9:00 AM | Evaluating Assessments of Novice Programming Environments | Paul Gross and Kris Powers |
| 9:30 AM | Multi-Institutional, Multi-National Studies in CSEd Research: Some Design Considerations and Trade-offs | Sally Fincher, Raymond Lister, Tony Clear, Anthony Robins, Josh Tenenberg, and Marian Petre |
| 10:00 AM | Coffee Break | |
| 10:30 AM | Taxonomy of Effortless Creation of Algorithm Visualizations | Petri Ihantola, Ville Karavirta, Ari Korhonen and Jussi Nikander. |
| 11:00 AM | What Does it Take to Learn “Programming Thinking”? | Anna Eckerdal and Anders Berglund |
| 11:30 AM | Novices’ Anticipations and Previous Knowledge of Software Development - Results of a Study with High School Students | Carsten Shulte and Johannes Magenheimer |
| 12:00 PM | Lunch | |
| 1:30 PM | An Investigation of Potential Success Factors for an Introductory Model-Driven Programming Course | Jens Bennedsen and Michael E. Caspersen |
| 2:00 PM | What Do Students Know? An Outcomes-Based Assessment System | Titus Winters and Tom Payne |
| 2:30 PM | Closing Discussion | Richard Anderson, Sally Fincher, Mark Guzdial |
| 3:30 PM | End of Workshop | |