ICLS 2006 Tuesday June 27

Registration East Lounge/IMU 9:00 am – 5:00 pm

Workshop Sessions (Special Registration required) 9:00 – 12:30 am

Tuesday 9:00 Workshop Sassafras	**Workshop A: Coordination and Control in Handheld Mobile Computers for Education: Identifying Cross-cutting Factor** Deborah Tatar, Virginia Tech; Charles Patton, SRI International; Yvonne Rogers, Indiana University
Tuesday 9:00 Workshop Oak	**Workshop B: Interaction & Learning in Chat Environments: A Workshop with Data Sessions** Gerry Stahl & Alan Zemel, Virtual Math Teams Project, The Math Forum @ Drexel University
Tuesday 9:00 Workshop Persimmon	**Workshop C: Authoring, Assessment & Open Source: Implications for Research and Classroom Application** Janice D. Gobert, Robert Tinker, & Paul Horwitz, The Concord Consortium; Jim Slotta, The University of Toronto
Tuesday 9:00 Workshop Maple	**Workshop D: Dynamic Support for CSCL: Conceptual Approaches and technologies for Flexible Support of Collaborative Knowledge Construction** Carolyn Rosé & Gahgene Gweon, Carnegie Mellon University; Frank Fischer, University of Tuebingen; Nikol Rummel, Universitaet Freiburg; G. Molinari, Ecole Polytechnique Fédérale de Lausanne, Switzerland
Tuesday 9:00 Workshop Walnut	**Workshop E: Games, Learning & Society: Researching Technologies "In the Wild"** Constance Steinkuehler & Kurt Squire, University of Wisconsin-Madison
Tuesday 9:00 Workshop Dogwood	**Doctoral Consortium** Dr. Susan Goldman, University of Illinois, Chicago; Dr. Claire O'Malley, University of Nottingham; Philip Bell, University of Washington; Janet Kolodner, Georgia Institute of Technology; Nancy Songer, University of Michigan.
Tuesday 9:00 Redbud	**Early Career Workshop** **Building Generalizable Theory from Local Data** Wolff-Michael Roth and Ken Tobin **Scaling Curriculum to have Broad Impact** Janet Kolodner and Joseph Krajcik **Scaling Assessment to Demonstrate Impact** Finbarr Sloane and James Pellegrino

Workshop Lunch 12:30-1:00 pm

Wed. 12:00 Frangipani	**Lunch (Special Registration required)**

Workshop Sessions 2:00 – 5:30 pm

Tuesday 9:00 Sassafras	**Workshop A: Handheld Mobile Computers for Education (continued)**
Tuesday 9:00 Oak	**Workshop B: Interaction & Learning in Chat Environments (continued)**
Tuesday 9:00 Persimmon	**Workshop C: Authoring, Assessment & Open Source (continued)**
Tuesday 9:00 Maple	**Workshop D: Dynamic Support for CSCL (continued)**
Tuesday 9:00 Walnut	**Workshop E: Games, Learning & Society (continued)**
Tuesday 9:00 Dogwood	**Doctoral Consortium (continued)**
Tuesday 9:00 Redbud	**Early Career Workshop (continued)**

ICLS 2006 Wednesday June 28

Registration East Lounge/IMU 9:00 am – 5:00 pm

Workshop Sessions (Special Registration required) 9:00 – 12:30 am

Tuesday 9:00 Workshop Maple	**Workshop F: Problems in Planning: Attaching the issues of planning design-based research** Chandra Orrill, Learning & Performance Support Lab, University of Georgia; Diana Joseph, University of Chicago
Tuesday 9:00 Workshop Oak	**Workshop G: Studying Engaged Learning in Online Communities** K. Ann Renninger, Swarthmore College; Sharon Derry, University of Wisconsin; Mary Marlino, DLESE; Wesley Shumar and Gerry Stahl, Drexel University; Dan Suthers, University of Hawaii; Stephen Weimar, Math Forum@Drexel
Tuesday 9:00 Workshop Persimmon	**Workshop H: Designing, Assessing, and Evaluating Innovative STEM Instruction using the Virtual Design Center** Beaumie Kim, Center for Educational Technologies, Wheeling Jesuit University
Tuesday 9:00 Workshop Dogwood	**Doctoral Consortium (continued)**
Tuesday 9:00 Workshop Redbud	**Early Career Workshop (continued)**

Workshop Lunch 12:00-1:00 pm

Wed. 12:00 Frangipani	**Lunch (Special Registration required)**

Welcome and Opening Plenary 1:00-3:00 pm

Wed. 1:00 Alumni Hall

Getting to Organizations & Systems Without Losing Touch with Learners & Teachers

James P. Spillane, Northwestern University

Concurrent Sessions 3:30 - 5:00 pm

07. Animation, Narration, and Visualization

Proceedings Page

Wed. 3:30 Paper Session Maple Room

Student-generated Animations: Supporting Middle School Students' Visualization, Interpretation and Reasoning of Chemical Phenomena
Hsin-Yi Chang, Chris Quintana 71

Collaborative Learning with Animated Pictures: The Role of Verbalizations
Mirweis Sangin, Gaëlle Molinari, Pierre Dillenbourg, Cyril Rebete, Mireille Bétrancourt 667

Direct-manipulation Animation: Incorporating the Haptic Channel in the Learning Process to Support Middle School Students in Science Learning and Mental Model Acquisition
Margaret S. Chan, John B. Black 64

True Stories, Storied Truth: Stitching Narrative and Logico-scientific Discourse Together in an Age of "Spin"
Joseph L. Polman 557

25. Teacher Knowledge and Participation in Science and Mathematics

Wed. 3:30 Paper Session Walnut Room

Relationships of Preservice Early Childhood Teachers' Cultural Values, Ethical and Cognitive Developmental Levels, and Views of Nature of Science
Valarie Akerson, Cary Buzzelli, ... n/a

Comparing Instructional Methods for Teaching Technology in Education to Preservice Teachers Using Logistic Regression
Dongping Zheng, Michael Young 873

Congruence and Tension among Activity Systems in a Tripartite Partnership for Systemic Reform
Daniel Suthers, Joyce Yukawa, Violet Harada 744

Measuring Teachers' Algebraic Reasoning: Development and Preliminary Validation of a Video Assessment Task
Alan J. Hackbarth, Sharon J. Derry, Margaret J. Wilsman 222

18. Analyzing, Understanding, and Assessing Scientific Inquiry

Wed. 3:30 Paper Session Dogwood Room

It's Okay to be Wrong: Recognizing Mechanistic Reasoning During Student Inquiry
Rosemary Russ, Paul Hutchison 641

Productive Failure
Manu Kapur 307

Changing Conceptual Ecologies with Task-structured Science Curricula
David Kanter, Bruce Sherin, Victor Lee 293

Measuring Students' Scientific Content and Inquiry Reasoning
Amelia Gotwals, Nancy Songer 196

Symposium

Wed. 3:30 Oak Room

Learning at the Nanoscale: Research Questions that the Rapidly Evolving Interdisciplinarity of Science Poses for the Learning Sciences
Sherry Hsi, Nora Sabelli, Joseph Krajcik, Robert Tinker, Kirsten Ellenbogen 1066

Symposium

Wed. 3:30 Frangipani Room

Moving Forward: The Learning Sciences and the Future of Education
R. Keith Sawyer, Allan Collins, Jere Confrey, Janet L. Kolodner, Marlene Scardamalia 1084

Reception 6:00–7:30 pm

Wed. 6:00 IU Art Museum	**Hosted Opening Reception (Beer, wine, and appetizers)**

ICLS 2006 Thursday, June 29

Closed Breakfast/Meeting 7:00 – 8:30 am

Thurs, 7:00
DAR

JLS Board Meeting

Breakfast 7:30 – 8:30 am

Thurs, 7:30
Alumni Hall

Hosted Continental Breakfast

Concurrent Sessions 8:30 - 10:00 am

22. Motivation and Engagement in Science and Mathematics

Thurs, 8:30
Paper Session
Maple Room

13. Implementing and Enacting Inquiry-Oriented Curricula

Thurs, 8:30
Paper Session
Walnut Room

05. Computer-Supported Construction of Knowledge

Thurs, 8:30 Paper Session Dogwood Room

Shared Referencing of Mathematical Objects in Online Chat
Gerry Stahl, Alan Zemel, Johann Sarmiento, Murat Cakir, Stephen Weimar, Martin Wessner, Martin Mühlpfordt 716

Coercing Shared Knowledge in Collaborative Learning Environments
Paul A. Kirschner, Pieter Jelle Beers, Henny P.A. Boshuizen, Wim Gijselaers 342

Effects on an Individual's Prior Knowledge on Collaborative Knowledge Construction and Individual Learning Outcomes in Videoconferencing
Bernhard Ertl, Heinz Mandl 161

Lurking as Participation: A Community Perspective on Lurkers' Identity and Negotiability
Yu-Wei Lee, Fei-Ching Chen, Huo-Ming Jiang 404

09. Methodological and Theoretical Advances

Thurs, 8:30 Paper Session Oak Room

"How Do We See?": Information Architecture as Theory
Philip Piety, Annemarie Palincsar 536

Is Neuroscience a Learning Science?
Sashank Varma, Daniel L. Schwartz, Bruce McCandliss 792

Ways of Working: A Three-tiered Interpretive Model for Video Research
Donald Wortham, Sharon Derry 845

Using Log Files to Track Students' Model-based Inquiry in Science
Barbara Buckley, Janice Gobert, Paul Horwitz, Amie Mansfield 57

Symposium

Thurs, 8:30 Frangipani Room

Complex Systems in Education: Conceptual Principles, Methodologies, and Implications for Research in the Learning Sciences
Jacobson, Michael; Wilensky, Uri; Goldstone, Robert; Landy, David; Son, Ji; Lesh, Richard; Azevedo, Roger; Hmelo-Silver, Cindy E.; Collins, Allan ; Sabelli, Nora; 1073

Concurrent Sessions 10:30 am – 12:00 pm

15. Transforming Curricula and Sustaining Reforms

Proceedings Page

Thurs, 10:30 Paper Session Maple Room

The Distribution of Resources and Expertise and the Implementation of Schoolwide Reform Initiatives
William R. Penuel, Kenneth A. Frank, Ann Krause 522

A Role for Professional Development in Sustainability: Linking the Written Curriculum to Enactment
Beth Kubitskey, Barry Fishman 363

Developing a Sustainable Instructional Leadership Model: A Six-year Investigation of Teachers in One Urban Middle School
Hee-Sun Lee, Nancy Songer, Soo-Young Lee 376

Using Transformative Research To Explore Congruencies Between Science Reform and Urban Schools
Ann E. Rivet 578

01. Instructional Design Issues

Thurs, 10:30
Paper Session
Walnut Room

Interface Agents to Alleviate Online Frustration
Amy L. Baylor, Rinat B. Rosenberg-Kima 30
Making a Difference - Exploiting the Full Potential of Instructionally Designed On-Screen Videos
Anna Ertelt, Alexander Renkl, Hans Spada 154
Effects of Part-task and Whole-task Instructional Approaches and Levels of Learner Expertise on Learner Acquisition and Transfer of a Complex Cognitive Skill
Jung Lim, Robert Reiser 425
Collaborative Learning in a 3D Virtual Environment: Design Factors and Evaluation Results
Nicoletta Di Blas, Caterina Poggi, Thomas Reeves 127

20. Individual and Social Factors in Problem Solving

Thurs, 10:30
Paper Session
Dogwood Room

Students' Perception of Knowledge Activation on a Guided Collaborative Problem Solving Organizer
Wei-Chen Hung, James Lockard 270
The Effect of Multiple-perspective Thinking on Problem Solving
Yan Wang, Enis Dogan, Xiaodong Lin 812
Insights into the Emergence of Convergence in Group Discussions
Manu Kapur , John Voiklis, Charles Kinzer, John Black 300
The Ideal Science Student and Problem Solving
Florence Sullivan, Xiaodong Lin 737

12. Understanding and Assessing Scientific Argumentation

Thurs, 10:30
Paper Session
Oak Room

A Case Study of Elementary Students' Argumentation in Science
Seau Yoon Foo, Dr. Chee Kit Looi 175
Assessment of Argument in Science Education: A Critical Review of the Literature
Victor Sampson, Douglas Clark 655
From Mechanical to Meaningful Classroom Questions
Elizabeth S. Charles, Janet L. Kolodner, Sabina Karkin, Christopher W. Kramer 78
From Evidence to Explanations: Engaging undergraduate Geology Students in Inquiry
Xornam Apedoe 2

08. Technomethodology in the Learning Sciences

Thurs, 10:30
Paper Session
Georgian Room

Using Cognitive Ethnography to Study Instruction
Robert F. Williams 838
Boolean Classes and Qualitative Research
Mitchell Nathan, Kristi Jackson 502
Revealing and Mediating Young Children's Memory and Social Cognition through Digital Photo Journals
Cynthia Carter Ching, X. Christine Wang 85
Computer-Supported Collaborative Video Analysis
Roy Pea, Robb Lindgren, Joseph Rosen 516

Symposium

Thurs, 10:30
Frangipani Room

Analyzing Collaborative Learning: Multiple Approaches to Understanding Processes and Outcomes
Cindy E. Hmelo-Silver, Ellina Chernobilsky, Olga Mastov, Clark Chinn, Angela O'Donnell, Gijsbert Erkens 1059

Lunch 12:00 - 1:30 pm

Thurs, 12:00
Alumni Hall

Hosted Lunch

Invited Symposium 1:30-3:30 pm

Thurs, 1:30
Alumni Hall

Projects that Made a Difference

The Adventures of Jasper Woodbury Mathematical Problem Solving Series
John D. Bransford, University of Washington

The American Psychological Association's Learner Centered Psychological Principles
Barbara McCombs, University of Denver Research Institute

Knowledge Building and Knowledge Building Environments (CSILE/Knowledge Forum)
Marlene Scardamalia, Ontario Institute for Studies in Education

LOGO/Mindstorms
Seymour Paper, MIT/University of Maine

Concurrent Sessions 4:00 - 5:30 pm

F03. Games and Technology for Learning

Thurs, 4:00
Firehose Session
Georgian Room

16. Advances in Understanding Representation and Learning

Thurs, 4:00
Paper Session
Maple Room

Unpacking the Mediation of Invented Representations
Joshua Danish, Noel Enyedy……..113

Beyond transparency: How students make representations meaningful
Victor Lee, Bruce Sherin 397

Effects of Conceptual Representation on Learning from Hypermedia
Lei Liu, Surabhi Marathe, Cindy Hmelo-Silver 439

Learning to Collaborate in a Computer-mediated Setting: Observing a Model Beats Learning from Being Scripted
Nikol Rummel, Hans Spada, Sabine Hauser 634

17. Designing, Learning, and Self-Regulation

Thurs, 4:00
Paper Session
Walnut Room

Exploring Differences Between Gifted and Grade-level Students' Use of Self-regulatory Learning Processes with Hypermedia
Jeffrey Greene, Daniel Moos, Roger Azevedo, Fielding Winters 210

Optical Pulsars and Black Arrows: Discovery's Work in 'Hot' and 'Cold' Science
Timothy Koschmann, Alan Zemel..... 356

Design-based Science Learning: Important Challenges and How Technology Can Make a Difference
Swaroop Vattam, Janet Kolodner 799

03. Innovation and Handheld Learning Technology

Thurs, 4:00
Paper Session
Dogwood Room

Co-design of Innovations with Teachers: Definition and Dynamics
Jeremy Roschelle, William Penuel, Nicole Shechtman 606

TEEMSS2: Technology Enhanced Elementary Math and Science - Year 1 Report
Shari Metcalf 474

MUSHI: A Multi-Device Framework for Collaborative Inquiry Learning
Leilah Lyons, Joseph Lee, Christopher Quintana, Elliot Soloway 453

Effects of Handheld Games on Students Learning in Mathematics
Namsoo Shin, Cathleen Norris, Elliot Soloway..... 702

Symposium

Thurs, 4:00
Frangipani Room

What's a Situation in Situated Cognition? – A Constructionist Critique of Authentic Inquiry
Dor Abrahamson, Andrea A. diSessa, Paulo Blikstein, Uri Wilensky, David H. Uttal, Meredith M. Amaya, Loren M. Marulis, Allan M. Collins 1015

Poster Session/General Reception 5:30 - 7:00 pm

PA1. Online-Supported Learning

Thurs, 5:30 Poster Cluster Solarium

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PA2. Technology-Supported Educational Research

Thurs, 5:30 Poster Cluster Solarium

PA3. Learning in Informal Settings

Thurs, 5:30
Poster Cluster
Solarium

PA4. Modeling and Simulations

Thurs, 5:30
Poster Cluster
Solarium

Closed Breakfast/Meeting 7:00 - 8:30 am

Friday, 7:00
DAR

CSCL Board Meeting

Breakfast 7:30 – 8:30 am

Friday, 7:30
Alumni Hall

Hosted Continental Breakfast

Concurrent Sessions 8:30 - 10:00 am

F01. Supporting and Understanding Student Argumentation

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Friday, 8:30
Firehose Session
Georgian Room

21. Observation, Generation, and Collaboration in Learning

Friday, 8:30
Paper Session
Maple Room

19. Learning Communities

Friday, 8:30
Paper Session
Walnut Room

Effects of Document Generation and Source Presentation on Historical Understanding and Thinking
Cecil Robinson, Gina Raineri 585

The Social Formation of Leadership in a Youth Activism Group
Ben Kirshner 349

Beyond Essentialist Critiques: The Co-development of Individual and Society within Erik Erikson's Psychosocial Theory of Identity Development
Sage Rose, Cecil Robinson 620

Characterizing the Nature of Discourse in Mathematics Classrooms
Radha Kalathil 277

11. Text, Digital Texts, and Learning

Friday, 8:30
Paper Session
Dogwood Room

Children's Text Comprehension: Effects of Genre, Knowledge and Text Cohesion
Rachel Best, Yasuhiro Ozuru, Randy Floyd, Danielle McNamara 37

An Analysis of Standardized Reading Ability Tests: What Do Questions Actually Measure?
Michael Rowe, Yasuhiro Ozuru, Danielle McNamara 627

Enhancing Learning of Expository Science Texts in a Remedial Reading Classroom via iSTART
Roger Taylor, Tenaha O'Reilly, Grant Sinclair, Danielle McNamara 765

Supporting Concept Mapping for Learning from Text
Sabine Hauser, Matthias Nueckles, Alexander Renkl 243

Symposium

Friday, 8:30
Oak Room

At home with Mathematics: Meanings and Uses among Families
Reed Stevens, Veronique Mertl, Sheldon Levias, Laurie McCarthy, Shelley Goldman, Lee Martin, Roy Pea, Angela Booker, Kristen Pilner Blair, Na'ilah Suad Nasir, Michael Heimlich, Grace Atukpawu, Kathleen O'Connor 1088

Symposium

Friday, 8:30
Frangipani Room

Theorizing Games in/and Education
Richard Halverson, David Williamson Shaffer, Kurt Squire, Constance Steinkuehler 1048

Concurrent Sessions 10:30 am - 12:00 pm

F04. Programming, Modeling, and Visualizing

Friday, 10:30 Firehose Session Georgian Room

02. Online Collaborative Learning

Friday, 10:30 Paper Session Maple Room

14. Research on Meta-Cognition and Self-Regulation

Friday, 10:30 Paper Session Walnut Room

06. Designing and Enacting Curricula with Teachers and Students

Friday, 10:30
Paper Session
Dogwood Room

Exploring the Relationship between Teachers' Curriculum Enactment Experience and Their Understanding of Underlying Curriculum Design Rationales
Hsien-Ta Lin, Barry Fishman 432

Characterizing the Quality of Second-Graders' Observations and Explanations to Inform the Design of Educative Curriculum Materials
Carrie Beyer, Elizabeth Davis 43

Using Teacher Narrative to Understand Teachers' Uses of Curriculum Materials
Corey Drake 134

Tensions and Tradeoffs in a "Design for Science" Classroom: The "Forces in Balloon" Lecture
Mary Leonard, Sharon Derry 411

Symposium

Friday, 10:30
Oak Room

Early Childhood Robotics for Learning
Marina Bers, Chris Rogers, Laura Beals, Merredith Portsmore, Kevin Staszowski, Erin Cejka, Adam Carberry, Brian Gravel, Janice Anderson, Michael Barnett 1036

Symposium

Friday, 10:30
Frangipani Room

Making a Difference with Attention to Content, Technology, and Scale: A Session Honoring the Memory of Jim Kaput
Stephen Hegedus, Richard Lesh, Jeremy Roschelle 1053

Closed Lunch/Meeting 12:00-1:30 pm

Friday, 12:00
State Room East

ISLS Closed Board Meeting

Lunch 12:00 - 1:30 pm

Friday, 12:00

Open Lunch (on your own)

Plenary Sessions 1:30-3:30 pm

Friday, 1:30
Alumni Hall

The learning sciences and place: Transforming how we think about urban science education
Angela C. Barton, Columbia University

Using technologies to create disruptive pedagogies: Reflections on some experiments to change the course of student learning
John G. Hedberg, Macquarie University

F02. Professional Development and Educational Research

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Friday, 4:00 Firehose Session Georgian Room

Symposium

Friday, 4:00 Walnut Room

Symposium

Friday, 4:00 Dogwood Room

Symposium

Friday, 4:00 Oak Room

Symposium

Friday, 4:00 Frangipani Room

Poster Session/General Reception 6:00 - 7:30 pm

PB1. Mathematics Teaching and Learning

Friday, 6:00
Poster Cluster
Solarium

PB2. Innovations in Assessment

Friday, 6:00
Poster Cluster
Solarium

PB3. Individual Differences

Friday, 6:00
Poster Cluster
Solarium

PB4. Preparing Teachers for Innovative Instruction

Friday, 6:00
Poster Cluster
Solarium

Misconceptions in Natural Selection: Conceptual Change Through Time in Biology Classrooms
Christine Manzey, Kevin Pugh, Kristin Kelly, Victoria Stewart 958

Systematic Formation of Reading Comprehension in Visually Impaired Children
Kari Kosonen, Kai Hakkarainen 952

A Comparison of Students' Conceptions about the Nature of Argumentation in School and Professional Science
Kelli Millwood 962

Learning as Perspective Taking: Conceptual Alignment in the Classroom
James G. Greeno, Brian MacWhinney 930

The Role of People Knowledge in Learning Narrative and Domain Content
Joan Davis, Tiffany Lee, Nancy Vye, John Bransford, Daniel L. Schwartz 914

Nurses' Informal Argument: Learning to Justify the Claim and Reach Agreement
Debra Hagler, Sarah Brem 932

Facilitating Inquiry using Technology and Teams in Exercise Physiology: The FITT Project
Darla M. Castelli, Ellen M. Evans, Mark M. Misic 900

Positive Technological Development: A Systems Approach to Understanding Youth Development and Educational Technology
Clement Chau, Marina Bers 904

Using case comparison to support the development of instructional design problem-solving strategies
Horvitz, Brian ..... n/a

Showing Evidence: Analysis of Students' Arguments in a Range of Settings
Issam Abi-El-Mona, Barbara Hug 888

Creative Codings: Investigating Cultural, Personal, and Epistemological Connections in Media Arts Programming
Kylie A. Peppler, Yasmin B. Kafai 972

Visualizing Discussion by the Use of the Conversation Chain Model
Sabina Karkin, Elizabeth S. Charles, Janet L. Kolodner 946

Metaskills of Collaborative Inquiry in Higher Education
Hanni Muukkonen, Minna Lakkala 966

Dinner 7:30 - 9:30 pm

Friday, 7:00
Alumni Hall

Hosted Banquet

Breakfast 7:30 – 8:30 am

Sat, 7:30
Alumni Hall

Hosted Continental Breakfast

Concurrent Sessions 8:30 - 10:00 am

24. Epistemic Games and Scaffolding

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Sat, 8:30
Paper Session
Maple Room

10. Online Collaborative Problem Solving

Sat, 8:30
Paper Session
Walnut Room

04. Professional Development Issues for Science Educators

Sat, 8:30
Paper Session
Dogwood Room

23. Theoretical and Technological Advances in Knowledge Building

Sat, 8:30
Paper Session
Oak Room

Teaching Students to Evaluate Source Reliability during Internet Research Tasks.
Christopher A. Sanchez, Jennifer Wiley, Susan R. Goldman 662

From Wikipedia to the Classroom: Exploring Online Publication and Learning
Andrea Forte, Amy Bruckman 182

Berta's Tower: Developing Conceptual Physics Understanding One Exploratoid at a Time
Gina Navoa Svarovsky, David Williamson Shaffer 751

Flow Blocks as a Conceptual Bridge Between Understanding the Structure and Behavior of a Complex Causal System
Oren Zuckerman, Tina Grotzer, Kelly Leahy 880

Symposium

Sat, 8:30
Paper Session
Frangipani Room

Whither Education Research? Science Policy Implications of NSF Research Support
John C. Cherniavsky, Janice Earle, Hari Narayanan, Roy Pea, John Bransford, Marcia Linn 1043

Closing Invited Symposium 10:30 am - 12:30 pm

Sat, 10:30
Alumni Hall

The NSF Science of Learning Centers

Center for Learning in Informal and Formal Environments (LIFE)
Roy Pea, Stanford University
Nora Sabelli, SRI International

Pittsburgh Science of Learning Center (PSLC)
Kurt Van Lehn, University of Pittsburgh

Center for Excellence for Learning in Education, Science & Technology
Daniel Franklin, Boston University