Participants:

**53.020. Effects of Constructivist Learning Environments**, Division C-Learning and Instruction

Chair: Henk G. Schmidt, Erasmus University Rotterdam

Participants:

- Self-Regulation in Two Constructivist Learning Environments: Experiences From Work-Related Learning. Laura Helena Helle, University of Turku; Paivi A. Tynjala, University of Jyväskylä
- Students’ Conceptions of Constructivist Learning: Changes Throughout the Academic Program and Differences Between a Traditional and a Problem-Based Learning Curriculum. Sofie Loyens, Remy M. Rikers, Henk G. Schmidt, Erasmus University Rotterdam
- Constructivist Learning and Assessment Environments: Can Students’ Perceptions of Assessment Demands and Their Learning Strategies Be Changed in the Desired Direction? David Gijbels, University of Antwerp; Mien Segers, University of Maastricht
- Self-Regulated Strategy Development (SRSD) in Writing. Karen R. Harris, Vanderbilt University

Discussant: Thomas M. Duffy, Indiana University

**53.021. Instructional Design, Cognitive Load, Motivation, and Emotion**, Division C-Learning and Instruction

Chair: Fred Paas, Open Universiteit Nederland

Participants:

- Instructional Methods, Instructional Multimedia, and Their Interaction Effect in the E-Learning Program: A Cognitive Load Approach. Wen-hao David Huang, Purdue University
- The Classroom Perception of 4C/ID-Based Learning Materials: Motivational Effects of Learning With Complex Tasks. Theo Bastiaens, Fernuniversität in Hagen; Rob Martiens, Leiden University
- On the Relation of Instructional Design and Motivation to Knowledge Acquisition and Cognitive Load. Steffi Zander, Georg-August - Universität - Göttingen; Roland Brinken, Saarland University
- Cognitions and Emotions of Science Majors While Reading Biology Text. Jennifer G. Cromley, Lindsey E. Snyder, Jacqueline C. Tanaka, Temple University

Discussant: Jerome R. Paas, University of Vrije Universiteit Brussel

**53.022. Knowledge Building in Individual and Collaborative Learning Environments**, Division C-Learning and Instruction

Chair: Andrew S. Gibbons, Brigham Young University

Participants:

- Developing Collaborative Knowledge Building and Scientific Understanding in a Knowledge Forum. Carol K. Chan, Ivan C. K. Lam, Raymond W. H. Leung, University of Hong Kong
- Emergence and Self-Organization in Knowledge-Building Discourse: A Grade-Three Case Study. Anton Yaunitsky, OISE/University of Toronto
- Knowledge Society Network: Toward a Dynamic, Sustained Network for Building Knowledge. Huang-Yao Hong, Marlene Scardamalia, Jianwei Zhang, OISE/University of Toronto
- Sustaining Principle-Based, Knowledge-Building Innovation at an Elementary School. Jianwei Zhang, OISE/University of Toronto; Marlene Scardamalia, OISE/University of Toronto
- On the Relationship Between Spatial Knowledge and Learning Electricity: Comparative Case Studies of Students Using 2D and 3D Emergent, Computational Learning Environments. Pratim Sengupta, Northwestern University; Uli J. Wilensky, Northwestern University

Discussant: Daniel H. Robinson, University of Texas - Austin

**53.023. Research in Physical Science Education**, Division C-Learning and Instruction

Chair: Charles T. Cox, University of New Hampshire

Participants:

- Framing the Concept of Energy in High School Chemistry: Instruction to Foster Conceptual Understanding in All Students. Karen Chang, University of California - Berkeley; Angelica Stacy, University of California - Berkeley
- Images of the Nature of Science in High School Chemistry Textbooks: A “Longitudinal” Study. Fouad S. Abd-El-Khalick, Mindy Waters, An-Phong Le, University of Illinois - Urbana-Champaign
- Balance of Scientific Literacy Themes in a Zambian High School Physics Course. Frackson Mumba, Southern Illinois University - Carbondale; Vivien Mwenee Chabalengula, Southern Illinois University; William Hunter, Illinois State University
- The Effect of Different Combinations of Real and Virtual Experimentation on Undergraduate Students’ Conceptual Understanding of Electric Circuits. Zacharias C. Zacharia, University of Cyprus

**53.024. Technology Research: Instructional Design Issues to Promote Learning, Problem Solving, and Positive Attitudes**, Division C-Learning and Instruction
53.025. The Travel of Ideas: New Perspectives on Analyzing Mathematics in Discussion-Rich Classrooms. Division C-Learning and Instruction
Hyatt, Columbus Hall, Section E, East Tower - Gold Level
2:15 pm to 3:45 pm
Chair: Geoffrey B. Saxe, University of California - Berkeley
Participants:
- Instructional Practices That Facilitate English Language Learners’ Participation in Mathematical Discussions Where “Ideas Travel”. Erin Turner, University of Arizona; Higinio Domínguez, Luz A. Maldonado, Susan B. Empson, University of Texas - Austin
- Equivalent Fractions: A Comparative Analysis of the Travel of Ideas. Geoffrey B. Saxe, Meghan M. Shaughnessy, Darrell Earnest, Sarah Cremer, University of California - Berkeley
- Whom to Follow: Daedalus or Ariadne? The Dilemma of Mathematics Teachers as Navigators of Classroom Discourse. Anna Sfard, University of Haifa
Discussant: Deborah Loewenberg Ball, University of Michigan

53.026. The World Wide Web: Scholars Unite Through the Power of the Pen and Internet. Division C-Learning and Instruction
Hyatt, Columbus Hall, Section G, East Tower - Gold Level
2:15 pm to 3:45 pm
Participants: Allison H. Crume, Florida State University; Dannielle Joy Davis, University of Texas - Arlington; Stephanie Evans, University of Florida; Anna L. Green, Florida A&M University; Tamara C. Bertrand Jones, Florida State University; Kimberly Lenease King-Jupiter, Auburn University; Laura Osteen, Florida State University

53.027. Vocabulary Learning and Instruction. Division C-Learning and Instruction
Hyatt, Plaza Ballroom, Section A, East Tower - Green Level
2:15 pm to 3:45 pm
Chair: Walter L. Dose, Texas Tech University
Participants:
- The Influence of Spanish Vocabulary Knowledge on English Vocabulary for Spanish-English Bilingual Fifth Graders. Elaine Mo, Harvard Graduate School of Education; Catherine Snow, Harvard Graduate School of Education; Bridget Dalton, Center for Applied Special Technology, Patrick Proctor, Boston College
- Cognitive Load Hypotheses. Brent Igo, Clemson University; Sharon Kay Zumbrum, University of Nebraska; Allison L. Kirschbaum, University of San Francisco; Kenneth A. Kiewra, University of Nebraska
- Learning Words for School Success: Vocabulary Instruction in Kindergarten Science. Pamela A. Spycher, University of California - Davis and WestEd
Discussant: Diane E. Beals, University of Tulsa

Marriott, Denver, Fifth Floor
2:15 pm to 3:45 pm
Chair: Donna L. Sundre, James Madison University
Participants:
- Can Differential Rapid Guessing Behavior Lead to Differential Item Functioning? Christine E. DeMars, James Madison University; Steven L. Wise, James Madison University
- Examination of Differential Nonresponse Rates in the Focal and Reference Groups as a Source of DIF. Olesya Falenchuk, OISE/University of Toronto; Barnabas Chukwujiebere Emenogu, University of Toronto
- What Makes Performance Tasks Motivating? Influences of Task Characteristics, Gender, and Ethnicity. Jeffrey K. Smith, University of Otago; Lisa F. Smith, University of Otago; Marilyn E. Birnbaum, North Plainfield Public Schools
Discussant: John W. Young, ETS

53.029. Investigating Students With Disabilities on the SAT Reasoning Test. Division D-Measurement and Research Methodology
Marriott, Cook, Third Floor
2:15 pm to 3:45 pm
Chairs: Deanna Lynn Morgan, The College Board; Amy E. Schmidt, ETS
Participants:
- Observational Timing Study on the SAT Reasoning Test. Cara Cahalan, Teresa C. King, Frederick A. Cline, Brent Bridgeman, ETS
- Examination of Fatigue Effects From Extended Time Accommodations on the SAT Reasoning Test. Cara Cahalan, ETS; Deanna Lynn Morgan, The College Board; Brent Bridgeman, Jennifer Zanna, Elizabeth A. Stone, ETS
- Comparison of Latent Class Structure of SAT Reasoning Test For Students With and Without Disabilities. Konstantin E Augenberg, Fordham University; Deanna Lynn Morgan, The College Board
Discussant: Kurt F. Geisinger, University of Nebraska

53.030. Testing in Multiple Languages/Cultures. Division D-Measurement and Research Methodology
Marriott, Great America, Sixth Floor
2:15 pm to 3:45 pm
Chair: Sigurjónur Skulason, ETS
Participants:
- Psychometric Examination of Patterns of Adaptive Learning Scales (PALS) in Chinese. Ting Zhang, Arturo Olivariez, William Y. Lan, Texas Tech University
- Challenges in Scaling Arabic and English Assessments in Qatar. Venessa F. Lall, ETS; Shameem N. Gaj, ETS; James Carlson,
Chair: Jodie A. Galoys, Michigan State University

Participants:


Developing Teacher Assessments of Science Content and Pedagogical Content Knowledge. Jodie A. Galoys, Jeffery J. Rozelle, Suzanne M. Wilson, Michigan State University


Discussants: Jean Moon, National Academies; Suzanne M. Wilson, Michigan State University

61.091. Technology in Second and Foreign Language Pedagogy and Practice. SIG-Second Language Research

Hyatt, Plaza Ballroom, Section B, East Tower - Green Level
12:25 pm to 1:55 pm

Chair: Gloria Park, University of Maryland - College Park

Participants:

Mediation of Instant Messenger in ESL Computer-Mediated Peer Response. Li Jin, University of South Florida; Tony Erben, University of South Florida; Wei Zhu, University of South Florida

Researching the Use of WebCT in Chinese Language Learning and Teaching. De Zhang, Iowa State University

iPodding in the Spanish Classroom: A Case Study. Matthew Schmidt, University of Missouri - Columbia

Bridging the Gap: How and What Language Learners Transfer From Online Discussions to Subsequent Tasks. Ming-Lung Yang, Yu-Jung Chen, Diane L. Schallert, University of Texas - Austin; Da-Fu Huang, Southern Taiwan University of Technology

Discussant: Gloria C. Berdugo Oviedo, McGill University

61.092. Reform Practices in Action in Special Education. SIG-Special Education Research

Swissôtel, William Tell Theatre, Second Floor
12:25 pm to 1:55 pm

Participants:

Defining Proficiency: An Examination of Cut Scores, Student, and Program Characteristics Among a National Sample of Students With Learning Disabilities. Jose Blackorby, SRI International; Ellen Schiller, SRI International

Integrating Reform-Oriented Math Instruction in Special Education Settings. Brian Bottge, Jorge Enrique Rueda-Sarmiento, Perry Thomas LaRoque, Jungmin Kwon, University of Wisconsin - Madison

Modification Practices for Students With Learning Disabilities at Various Levels of Intellectual Ability. Courtney Lambert Crin, University of Texas - San Antonio; Jacqueline Hawkins, University of Houston; Sharon Johnson, University of Houston

Student Outcomes and Response to “Tier 2” Reading Intervention Scaled Up in Multiple Schools. Carolyn A. Denton, University of Texas - Austin; Elizabeth Ann Swanson, University of Texas - Austin; Patricia G. Mathes, Southern Methodist University; Yue Jia, Southern Methodist University

Discussant: Lauren L. Katzman, Boston University

61.093. Leadership for Quality Education. SIG-Supervision and Instructional Leadership (formerly Instructional Supervision) Research

Swissôtel, Fribourg, Third Floor
12:25 pm to 1:55 pm

Chair: Kathleen Toporka Jurissen, Western Carolina University

Participants:

Evidence-Based Decision Support Methods and Tools: Implications for Instructional Leadership and Assessment of Practice. Arthur M. Recesso, Sally J. Zepeda, Stacey M. Newarth-Prickett, University of Georgia

Supervision of Action Research: A Supervisory Function Whose Time Has Come. Stephen P. Gordon, Texas State University

“Teach by Numbers” in an Era of Test-Based Reform: Implications for the Field of Supervision. Helen M. Hazi, West Virginia University; Noreen B. Garman, University of Pittsburgh

Discussant: Jeffrey Glanz, Wagner College

61.094. Global Perspectives on Technology as a Change Agent in Teaching and Learning Identified by Educational Researchers in the International Federation of Information Processing. SIG-Technology as an Agent of Change in Teaching and Learning

Marriott, Chicago Ballroom, Section H - Fifth Floor
12:25 pm to 1:55 pm

Chair: Andrea Karpoudi, Eötvös Loránd University

Participants: Margaret J. Cox, King's College - London; Niki E. Davis, Iowa State University; Jianwei Zhang, OISE/University of Toronto; Anne Beatrice McDougall, University of Melbourne

Discussant: Lynne R. Schrum, George Mason University


Sheraton, Chicago Ballroom, Section VIII, Level 4
12:25 pm to 1:55 pm

Chair: Hassim O. Maiga, Askya Mohammed Center for Education and Research

Participants:

The Challenges of Teaching and Learning in Africa: The Quality Imperative. Mohamed Cherif Diarra, Council for the Development of Social Science Research in Africa

Culturally-Mediated Education and Reform in Guinea Bissau: A Focus on Women and Girls. Odele Costa-Semedo, Former Minister of Education and Minister of Health, Guinea-Bissau

Participant: Petronilha B. Goncalves e Silva, Universidade Federal De Sao Carlos

Discussants: Joyce E. King, Georgia State University; Asa G. Hilliard, Georgia State University

61.096. Panel Discussion: Visions of the Future of Professional Development Schools. SIG-Professional Development School Research

Hyatt, Columbus Hall, Section C, East Tower - Gold Level
12:25 pm to 1:55 pm

Chair: Claudia A. Balach, Slippery Rock University

Table:

1. Visions for the Future of Professional Development Schools. Sharon P. Robinson, American Association of Colleges for Teacher Education; Marsha Levine, NCATE; Mary H. Futrell, George Washington University; Elliott Lessen, Southern Illinois University - Edwardsville

61.097. Affordances of Technology in Education. SIG-Computer and Internet Applications in Education

Hyatt, Grand Ballroom, Sections C-D North, East Tower - Gold Level
12:25 pm to 1:05 pm