Society for Information Technology & Teacher Education
International Conference Annual
March 1-6 • Atlanta, Georgia USA

Managing Editors
Richard Ferdig
Caroline Crawford

General Editors
Roger Carlsen
Niki Davis
Jerry Price
Roberta Weber
Dee Anna Willis (Senior Editor)

Volume 1
## TABLE OF CONTENTS

### KEYNOTE SPEAKERS
- DISTRIBUTED-LEARNING COMMUNITIES AS A MODEL FOR EDUCATING TEACHERS
  - Chris Dede, Harvard University, USA
- TODAY AND TOMORROW'S CHALLENGES
  - Allen Glenn, University of Washington, USA
- IF TECHNOLOGY IS THE ANSWER, WHAT'S THE QUESTION? RESEARCH TO HELP MAKE THE CASE
  - M.D. Roblyer, University of Maryland University College, USA

### INFORMATION TECHNOLOGY: ASSESSMENT AND E-FOLIOS
- VICKI NAPPER, WEBER STATE UNIVERSITY, USA; HELEN BARRETT, UNIVERSITY OF ALASKA ANCHORAGE, USA

### ASSESSING THE ISTE NETS FOR TEACHERS STANDARDS
- HEGAL BARRETT, UNIVERSITY OF ALASKA ANCHORAGE & ISTE, USA; PEGGY KELLY, CALIFORNIA STATE UNIVERSITY SAN MARCOS, USA

### DIFFERENTIATING ELECTRONIC PORTFOLIOS AND ONLINE ASSESSMENT MANAGEMENT SYSTEMS
- HEGAL BARRETT, UNIVERSITY OF ALASKA ANCHORAGE & ISTE, USA

### SYMPOSIUM ON ELECTRONIC PORTFOLIOS IN TEACHER EDUCATION, PART I
- HEGAL BARRETT, UNIVERSITY OF ALASKA ANCHORAGE & ISTE, USA

### CREATING AND IMPLEMENTING A STUDENT EPORTFOLIO PROJECT
- KAREN BONSIGNORE, NEW YORK CITY COLLEGE OF TECHNOLOGY, USA

### BENCHMARKS FOR ASSESSING THE TECHNOLOGICAL LITERACY OF A HIGHLY QUALIFIED PARAPROFESSIONAL
- ANTOINETTE BRUCIATI, MARIA LIZANO-DIMARE, SACRED HEART UNIVERSITY, USA

### CONNECTICUT BLUEPRINT FOR A NCLB "HOUSSE" IN EDUCATIONAL TECHNOLOGY
- ANTOINETTE BRUCIATI, SACRED HEART UNIVERSITY, USA

### THE ROLE OF THEORETICAL KNOWLEDGE IN ELECTRONIC PORTFOLIOS
- JOANNE CARNEY, WESTERN WASHINGTON UNIVERSITY, USA

### NOTEBOOKS, PORTFOLIOS, AND ABILITIES: THE MODEL OF SUCCESSFUL ASSESSMENT
- VAL CHRISTENSEN, PATRICIA GEGELMAN, LARRY GROOTERS, ALAN OLSON, VALLEY CITY STATE UNIVERSITY, USA

### LARGE SCALE IMPLEMENTATION OF ELECTRONIC PORTFOLIO IN TEACHER EDUCATION PROGRAMS
- KELLYE CROCKETT, UNIVERSITY OF MISSOURI-COLUMBIA, USA; GAIL RING, UNIVERSITY OF FLORIDA, USA; DAVID PELOFF, JOHNS HOPKINS UNIVERSITY, USA

### LINKING E-PORTFOLIOS TO PERFORMANCE STANDARDS AND SELF-ASSESSMENT
- TERRY DANIELS, WAGNER COLLEGE, USA

### USING AN AUTHENTIC ASSESSMENT PRACTICE TO INFORM LEARNING AT THE COURSE AND PROGRAM LEVELS
- MARY ENGSTROM, LARRY TENTINGER, UNIVERSITY OF SOUTH DAKOTA, USA

### USING E-PORTFOLIOS TO ASSESS PRESERVICE TEACHERS' ACHIEVEMENT
- CONSTANCE GEIER, NORTHERN STATE UNIVERSITY, USA

### E-PORTFOLIO DECISIONS AND DILEMMAS
- DAVID GIBSON, NATIONAL INSTITUTE FOR COMMUNITY INNOVATIONS, USA

### USING COLLABORATIVE EPORTFOLIOS TO REINVENT TEACHER EDUCATION
- DOUGLAS N. GORDIN, KEITH GRIENEBERG, MARK LAFF, SONIA MARTINEZ, R. B. LAM, IBM TJ WATSON RESEARCH CENTER, USA

### ELECTRONIC PORTFOLIOS: STEPS OF THE IMPLEMENTATION PROCESS
- DORIS GRASSERBAUER, CITY COLLEGE OF THE CITY UNIVERSITY OF NEW YORK, USA

### TEACHER E-PORTFOLIO COMMUNITIES: DIFFUSION OF DESIGN KNOWLEDGE AS A CATALYST FOR TEACHER LEARNING
- CHRISTOPHER HARTMANN, BRENDAN CALANDRA, GEORGIA STATE UNIVERSITY, USA

### GROWTH BASED STUDENT ASSESSMENT IN TECHNOLOGY EDUCATION
- DAVID JACKSON, SAINT MARY'S UNIVERSITY OF MINNESOTA, USA

### RESEARCH AND IMPLEMENTATION OF VIRTUAL LEARNING ASSESSMENT
- HOSSEIN JAHANKHANI, SRIDHAR BATHINENI, UNIVERSITY OF EAST LONDON, UK
DATABASE PORTFOLIOS: POSSIBILITIES FOR DETAILING GROWTH OVER TIME IN PEDAGOGY AND CURRICULUM KNOWLEDGE FOR PRE-SERVICE TEACHERS ............................................................. 219
Ken Potter, Ann Potts, Virginia Tech, USA

REFLECTION AND THE ELECTRONIC PORTFOLIO: THE NATURE AND QUALITY OF PRESERVICE TEACHERS' REFLECTIVE WRITING ................................................................. 222
Holly Robbins, The University of North Carolina at Greensboro, USA

FROM HIGH SCHOOL TO COLLEGE: HOW PREPARED ARE TEACHER EDUCATION CANDIDATES FOR TECHNOLOGY INTEGRATION? ......................................................... 228
Cindy Ross, Savilla Banister, Bowling Green State University, USA

ELECTRONIC GROWTH AND IMPACT PORTFOLIOS: SUPPORTING EDUCATOR DEVELOPMENT ACROSS THE PROFESSIONAL CONTINUUM ....................................................... 229
Kathleen Rutowski, Ann Igoe, Theodore Kopcha, Arizona State University, USA

SHOWCASE VS. EMERGING PORTFOLIOS: CAPTURING PRACTICE AND REFLECTION OF K-12 PRACTITIONERS THROUGH AUTHENTIC ENGAGEMENT IN ONLINE COMMUNITIES .................................................. 235
Johann Sarmiento, Center for Research in Human Development and Education, Temple University, USA

THE REFLECTIVE E-PORTFOLIO IN BLACKBOARD: A CASE STUDY ........................................... 238
Catherine Schifter, Temple University, College of Education, USA

TECHNOLOGY-BASED ASSESSMENT: FROM ASSIGNMENT TO PROGRAM ........................................... 241
Timothy Schwob, Michael Schwob, SUNY College at Potsdam

ELECTRONIC PORTFOLIO ASSESSMENT OF GRADUATE STUDENTS .............................................. 243
Annis Shaver, Mary Avalos, University of Miami, USA

CREATING ELECTRONIC PORTFOLIOS THAT FACILITATE REFLECTION AND EVALUATION ................. 249
Craig Shepherd, Drew Polly, Peter Rich, Gretchen Thomas, University of Georgia, USA

E-PORTFOLIO: A VIRTUAL EVOLUTION ......................................................................................... 253
Thilla Sivakumaran, William Wishart, University of Tennessee, USA

PROCESS & PROMISE: A CASE STUDY OF DIGITAL PORTFOLIOS IN GRADUATE TEACHER EDUCATION .................................................................................................................................. 257
Adrienne Andi Sosin, Bruce Rosenbloom, Adelphi University, USA

INNOVATIONS IN TEACHING CLASSROOM ASSESSMENT ............................................................ 263
Alexandru Spatariu, Michelle Weibel, University of Nevada Las Vegas, USA; Lisa Bendixen, Lori Olafson, UNLV, USA

USING INTERNET BASED TOOLS TO MANAGE ASSESSMENT .................................................. 268
Gerry Swan, University of Virginia, USA

AN APPLICATION POSSIBILITY OF LATENT SEMANTIC ANALYSIS (LSA) -EXAMINATION BY PERSUASIVE TEXTS- ........................................................................................................ 270
Mio Tsubakimoto, Dept. of Human System Science, Graduate School of Decision and Technology, Tokyo Institute of Technology, Japan; Manabu Kishi, Faculty of Education, Tokyo Gakugei University, Japan; Kanji Akahori, Dept. of Human System Science, Graduate School of Decision and Technology, Tokyo Institute of Technology, Japan

AN ELECTRONIC PORTFOLIO SYSTEM: FACULTY AND STUDENT PERCEPTIONS ......................... 276
Beverly Wallace, Matthew Thomas, Andrew King, Jennifer Aldrich, Yuankun Yao, Central Missouri State University, USA

MY EXPERIENCES IN CREATING ELECTRONIC PORTFOLIOS ..................................................... 282
Aifang Wang, Ohio University, USA

LEARNING EXPERIENCES IN DEVELOPING ELECTRONIC PORTFOLIOS IN A MASTER'S EDUCATIONAL TECHNOLOGY PROGRAM: A CASE STUDY ......................................................... 288
Shuyan Wang, Ohio University, USA

CREATING A TECHNOLOGY PREREQUISITE EXAM FOR ENTRANCE TO AN ELEMENTARY EDUCATION PRESERVICE PROGRAM .................................................................................. 296
Richard West, Charles Graham, Brigham Young University, USA

TRIALS AND TRIBULATIONS OF REFLECTIVE PRACTICES IN PRESERVICE TEACHER ELECTRONIC PORTFOLIOS ...................................................................................................... 301
Mia Kim Williams, Keith Wetzel, Lance Wilhelm, Arizona State University West, USA

DISCUSSION BOARDS USED AS FOCAL GROUPS FOR ASSESSMENT ............................................. 307
Nellie Zambrana, University of Puerto Rico, Puerto Rico
INFORMATION TECHNOLOGY: CORPORATE .................................................................309
TRAINING AND MENTORING FACULTY FACILITATORS AT AN ONLINE UNIVERSITY .................................................. 311
Muhammad Betz, University of Phoenix Online/Southeastern Oklahoma State University, USA; Brent Muirhead, University of Phoenix Online, USA

INFORMATION TECHNOLOGY: DISTANCE/FLEXIBLE LEARNING .................................................................319
DEVELOPING A VIRTUAL SELF: MASTERING THE SKILLS OF ONLINE COMMUNICATION .................................. 321
Gertrude (Trudy) Abramson, Graduate School of Computer and Information Sciences, Nova Southeastern University, USA
BUILDING A STRONG AND SUCCESSFUL ONLINE LEARNING ENVIRONMENT THROUGH INSTRUCTOR INITIATED SUPPORT AND AFFECTIVE COMMUNICATION WITH STUDENTS ........................................... 328
Dwight Allen, Han Liu, Ruiling Lu, Zhongtang Ren, Old Dominion University, USA
A COST ANALYSIS OF DISTANCE EDUCATION: ARE WE GETTING THE MOST BANG FOR THE BUCK? .... 336
Leonard Annetta, North Carolina State University, USA
TECHNOLOGY EMERGENCIES AND WEB-BASED INSTRUCTION .................................................................341
Gladys Arome, Barry University, USA
WHEN STUDENTS STUDY: DISTANCE VS. ON-CAMPUS .................................................................346
William Barber, Erin Harkness, Elaine McIntyre, Amanda Price, Brooke Shive, Appalachian State University, USA
BLENDED LEARNING IN TEACHER EDUCATION: PREPARING NEW TEACHERS FOR THE NEXT WAVE IN K-12 EDUCATION REFORM .................................................................349
Brian Beatty, San Francisco State University, USA
THE USE OF NARRATIVE IN ONLINE EDUCATION .................................................................352
Dennis Beck, University of Florida, USA
LOW-COST AND NO-COST TOOLS FOR SUPPORTING ONLINE INSTRUCTION ............................................ 356
Dy Brovey, Valdosta State University, USA
NASA CENTER FOR DISTANCE LEARNING VIDEO PRODUCTIONS .................................................. 359
Randall Caton, NASA Langley Research Center, USA
DISTANCE LEARNING SUCCESS FACTORS IN THE RESOURCES-PROCESSES-RESULTS CYCLE AND COLLEGE OF EDUCATION ACCREDITATION STANDARDS .................................................................361
Cathy Cavanaugh, University of North Florida, USA
DEVELOPING A CRITERIA SET FOR AN ONLINE LEARNING ENVIRONMENT—FROM THE PERSPECTIVE OF HIGHER EDUCATION FACULTY .................................................................367
Doris Choy College of Staten Island, USA; Chaoyan Dong, New York University, USA; Ling Wang, NOVA Southeastern University, USA
EFFECTIVENESS OF IMPLEMENTING STRUCTURED WRITING PRINCIPLES .................................................................371
Dorothy Choy, College Of Staten Island, USA
DEVELOPMENT OF AN ONLINE INSTRUCTIONAL MODEL FOR WEST CHESTER UNIVERSITY: STANDARDS AND TRAINING .................................................................376
Tracy Clark, West Chester University, USA
BUILDING COMMUNITY IN AN ONLINE COURSE – THEORIES AND PRACTICES .................................................................383
Elizabeth Cole, Ronald McBride, Northwestern State University, USA
PERCEIVED, ACTUAL AND HYBRID INTERACTIVE ACTIVITIES WITHIN THE ELEARNING ENVIRONMENT: MODELING PEDAGOGY FOR PRESERVICE AND INSERVICE PROFESSIONAL EDUCATORS .................................................................391
Caroline Crawford, University of Houston-Clear Lake, USA
TWO PEAS IN A POD? A COMPARISON OF FACE-TO-FACE AND WEB BASED CLASSROOMS .................................................................397
John R Cryan, University of Toledo, USA; Gale Mentzer, Measurement Consultant, USA; Berhane Teclehaimanot, University of Toledo, USA
CASE STUDIES TO LEAD GOOD PRACTICE FOR K-12 DISTANCE EDUCATION .................................................................404
Niki Davis, Dale Niederhauser, Lily Compton, Sami Sahin, Iowa State University Center for Technology in Learning and Teaching, USA
BEST PRACTICES FOR EFFECTIVE ONLINE TEACHING .................................................................407
Christina Dehler, Cal Poly Pomona, USA
ANALYSING THE NEED FOR DISTANCE LEARNING: A TOOL DEVELOPED IN THE CONTEXT OF A EUROPEAN PROJECT .................................................................413
Koen DePryck, Sophie Van der Avort, Center for Adult Education Antwerp-South, Belgium
THE EFFECTS OF CONTENT, TASK, AND PRE-STRUCTURES ON ONLINE GROUP-BASED LEARNING STRATEGY IN TERMS OF CRITICAL THINKING AND INTERACTION PATTERNS ........................................................... 513
Sunyoung Joung, Professional Development in Florida Department of Revenue, USA

DISTANCE EDUCATION AND TECHNOLOGY: USING TECHNOLOGY TO ENHANCE INTERACTIONS IN DISTANCE EDUCATION CLASSES .......................................................................................... 520
Jared Keengwe, Indiana State University, USA; David Hofmeister, Indiana State Univ., USA

ARE ONLINE MASTER’S DEGREE PROGRAMS REPLACING THE TRADITIONAL MASTER’S DEGREE PROGRAMS? ................................................................................................................................. 523
Kulwadee Kongrith, Suzanne Aberasturi, Cleborne Maddux, University of Nevada, Reno, USA

VIRTUAL ORGANIZATIONS: A VEHICLE FOR REALISTIC AND EXPERIENTIAL LEARNING ................................................................................................................................. 529
Marla La Rue, Adam Honea, University of Phoenix, USA

KNOWLEDGE MANAGEMENT TOOLS FOR DESIGNING & DEVELOPING AN AFFECTIVE INSTRUCTIONAL UNIT IN SYNCHRONOUS AND ASYNCHRONOUS ENVIRONMENTS .............................. 530
Miriam Larson, Juhoong (Christie) Liu, Phyllis Newbill, Fan (Luisa) Li, IT program, Virginia Tech, USA

DEVELOPING THE COLLABORATIVE REPRESENTATION SUPPORTING TOOL (CRST) IN WEB-BASED COLLABORATIVE PBL ENVIRONMENTS .......................................................................................... 532
Miyoung Lee, Florida State University, USA; Dong-sik Kim, Hanyang University, Korea (South)

MAPPING THE METACOGNITION IN WEB BASED LEARNING ENVIRONMENT ................................................................................................................................. 540
Miyoung Lee, Youngmin Lee, Richard D. Warren, Florida State University, USA

HOW TO CONSIDER INDIVIDUAL DIFFERENCES IN ONLINE LEARNING ENVIRONMENTS ................................................................................................................................. 545
Youngok Lee, University of Florida, USA

COMPARATIVE STUDY OF SYNCHRONOUS AND ASYNCHRONOUS ONLINE CASE DISCUSSIONS .............................................................. 551
Barbara Levin, Holly Robbins, He Ye, University of North Carolina at Greensboro, USA

IMPLEMENTING A DISTANCE LEARNING PROJECT: WHAT EDUCATORS SHOULD KNOW ................................................................. 559
Chuck Lombardo, University of West Florida, USA; Diane Kelley, Okaloosa County Schools, USA; Arifa Garman, UWF, USA

DISTANCE LEARNING: A STUDY OF STUDENTS’ PERCEPTIONS IN A TECHNOLOGY-ENHANCED ENVIRONMENT .......................................................................................................................... 562
Alba Loyo, Mabel Rivero, Universidad Nacional de Rio Cuarto, Argentina

CREATING COMMUNITY AMONG AFRICAN AMERICAN ONLINE LEARNERS: A CASE FOR INSTRUCTOR COLLABORATION ............................................................................................................... 568
Dixie Massey, Anthony Graham, Stephen McCary-Henderson, Ereka Williams, North Carolina A & T State University, USA

HYBRID OFF-CAMPUS WEEKEND PROGRAM: WHAT DO THE STUDENTS PREFER? .............................................................. 572
Yahya Matsom, Kenny Ott, Clemente Hudson, Valdosta State University, USA

FLEXIBLE DELIVERY AND THE WORKING TEACHER: CASE STUDIES IN TECHNOLOGY INTEGRATION GRADUATE EDUCATION ........................................................................................................ 574
Jo McClendon, Xiaopeng Ni, Fred Hartfield, Marty Thomas, Michael Orey, Tel Amiel, University of Georgia, USA

FACULTY VARIABLES THAT INFLUENCE THE EFFECTIVENESS OF ONLINE CLASSES ................................................................................................................................. 582
Scott McDaniel, Middle Tennessee State University, USA; Charles Dickens, Tennessee State University, USA

MAKING ONLINE WORK: MESSAGES FROM THE FIELD ................................................................................................................................. 588
Barbara McKenzie, Elizabeth Bennett, University of West Georgia, USA

FACILITATING ONLINE LEARNING ............................................................................................................................................... 596
Evelyn McLellan, Mark Stansfield, Thomas Connolly, University of Paisley, UK

INCLUSION AND THE HIGHLY MOTIVATED GRAD STUDENT: A DISTANCE EDUCATION CASE STUDY ..... 601
Mark Mortensen, University of North Texas, USA; Les Lunce, University if North Texas, USA

DEVELOPMENT OF AN ONLINE COURSE TO FACILITATE INTERACTION WITH LEARNERS ................................................................................................................................. 607
Yoshinori Naruse, Shinji Toga, Yoshikazu Hayase, Toyama National College of Maritime Technology, Japan; Jun-ichi Yamanishi, Faculty of Education, Toyama University, Japan

LEARNING CONTENT NETWORK AS INTERNETWORKING SOLUTION FOR E-LEARNING ................................................................................................................................. 613
Valery Naumov, Svetlana Kolesnikova, Dmitry Kolesnikov, Lappeenranta University of Technology, Finland

PROMOTING PRACTITIONERS’ RESEARCH THROUGH HYBRID LEARNING ENVIRONMENTS ................................................................................................................................. 620
Betul Ozkan, State University of West Georgia, USA

ONLINE MENTORING OF PRE-SERVICE TEACHERS ................................................................................................................................. 626
Carmen Pena, Jonella Kimmel, Jaime Curts, The University of Texas Pan American, USA
Databases as Mindtools for Discovery Learning in Asynchronous Distance Learning Environments .................................................. 734
Jesus Trespalacios, Juhong (Christie) Liu, Doctoral Program of Instructional Design/Technology, USA

Learning Style Preferences Among Online University Students .................................................. 736
Shahrzad Vafa, Baylor College of Medicine, USA

Effectiveness of Audio on Screen Captures in Software Application Instruction .......... 740
Susan Veronikas, Texas Tech University, USA

Learner Satisfaction for Distance Learners: Lessons for Teacher Preparation Programs .................................................. 743
Roberta K Weber, Florida Atlantic University, USA; Jackie White, Indian River Community College, USA; Bill Cahill, Florida Atlantic University, USA

Guiding Strategies for Meaningful Interaction in IBL .................................................. 747
Younghhee Woo, University of Georgia, USA

Step on Developing Active Learning Community for an Online Course ......................... 751
Harrison Hao Yang, Faith Maina, State University of New York at Oswego, USA

Tested Strategies for Creating a Successful Distance Learning Program: A Research Report .................................................. 761
Maureen Yoder, Lesley University, USA

The Effects of Web Based Multimedia Lessons on Native American Learning .......... 764
Rebecca Zittle, Frank Zittle, Center for Educational Evaluation & Research (CEER), USA; Karen Lesher, Navajo Education Technology Consortium (NETC), USA; Elvira Bitsi Large, Don Fischer, Moni Short, J. Nathaniel Southerland, Karina Roessel, Toni Rivera, Florian Johnson, TECHShare Project, USA

Information Technology: Digital Imaging ........................................................................ 771
Digital Imagery in the Elementary Social Studies Classroom .................................................. 773
Michael Berson, University of South Florida, USA

The Developmental Stages of Preservice Teachers' Use of Digital Cameras ................. 781
Terri Teal Bucci, Ohio State University - Mansfield, USA

A Revolutionary Multimedia Project: The Boston Tea Party ........................................... 784
Ed Counts, University of Tennessee, Knoxville, USA; Nancy Knox, Bearden High School, Knoxville, TN, USA

Information Technology: Electronic Playground .................................................. 791

Information Technology: Equity & Social Justice .................................................. 799
Preservice Teachers Response to a Webquest on Culturally Relevant Teaching .......... 801
Barbara Beyerbach, Marcia Burrell, SUNY Oswego, USA

Internet Cafés: Bridges of the Digital Divide .................................................................. 806
Sebnem Cilesiz, University of Florida, USA

Technology: The New Segregator ........................................................................ 809
Jesse Foster, University of Nebraska-Lincoln, USA

What is Computer Science, Anyway?: Deepening Urban Teachers' Understandings of Computer Science and Working Towards an Engaging Pedagogy ................. 814
Joanna Goode, UCLA / Institute for Democracy, Education, and Access, USA; Jane Margolis, UCLA / Institute for Democracy, Education, and Justice, USA

Digital Democracy in Higher Education ........................................................................ 820
Susana Juniu, Montclair State University, USA

Technology Closes the Gap Between Students' Individual Skills and Background Differences ........................................................................ 826
Elsa-Sofia Morote, Dowling College/MIT, USA; David Pritchard, MIT, USA

Qualitative Meta-Analysis for Social Justice: The Creation of an On-Line Diversity Resources Database ........................................................................ 832
Ann Potts, Virginia Polytechnic Institute and State University, USA; Megan Boler, Virginia Polytechnic Institute and State University/University of Toronto, USA; David Hicks, Peter Doolittle, Susan Ariew, Cecile Cachaper, Kathleen Carico, Robert Prickett, Virginia Polytechnic Institute and State University, USA

Technologies of Power and Technologies of the Self or Why My Educational Technology Classes Have Changed So Much .................................................................................. 837
David Shutkin, John Carroll University, USA