



# E-Learn 2005

World Conference on E-Learning in Corporate,  
Government, Healthcare, & Higher Education

**Edited by**  
Griff Richards

## Proceedings of E-Learn 2005

World Conference on E-Learning in Corporate,  
Government, Healthcare, & Higher Education

October 24-28, 2005 • Vancouver BC, Canada



**AAACE**

Association for the Advancement of Computing in Education

A CONFERENCE OF AAACE

TIB/UB Hannover  
128 282 657



TOC

**Volume 1**

# TABLE OF CONTENTS

<b>An Implementation Model for a Learning Object Repository .....</b>	<b>2</b>
<i>Ken Abernethy, Furman University, USA; George Piegari, Virginia Military Institute, USA; Han Reichgelt, Georgia Southern University, USA; Kevin Treu, Furman University, USA</i>	
<b>Springboard Into Math .....</b>	<b>8</b>
<i>Kathy Autrey, Leigh Myers, Northwestern State University, USA</i>	
<b>Virtual Classroom and the WEB .....</b>	<b>10</b>
<i>Havva Haciogullari Basak, Sen Cakir, Dokuz Eylul University, Turkey</i>	
<b>Student Satisfaction with Companion Elearning Websites to a New PBL Undergraduate Nursing Curriculum .....</b>	<b>16</b>
<i>Alison Blair, University of Queensland, Australia</i>	
<b>Orientation, Execution, and Control in Online Mathematics Teaching .....</b>	<b>23</b>
<i>Mikhail Bouniaev, Southern Utah University, USA</i>	
<b>Interactive Textware: Using Macromedia Authorware to Re-Invent an Academic Textbook .....</b>	<b>29</b>
<i>Kevin Carr, Donna Kalmbach Phillips, George Fox University, USA</i>	
<b>Infectious Diseases of Transplantation Web Course and e-Conference Room: Building an International Community of Clinicians .....</b>	<b>35</b>
<i>Melinda Cerny, Sean Brown, Massachusetts Institute of Technology, USA; Robert Rubin, Brigham and Women's Hospital, USA</i>	
<b>Are you Prepared to Teach Online? Perspectives of Faculty in a Private College in Malaysia .....</b>	<b>41</b>
<i>Tik Chan, INTI College Malaysia, Malaysia</i>	
<b>Conditional Tags and Text: Personalizing the Online Environment While Remaining Scalable ....</b>	<b>47</b>
<i>Kelley Chrouser, Deltakedu, USA</i>	
<b>Exploring Large-Scale Teaching Technologies—Results from a Faculty Learning Community .....</b>	<b>50</b>
<i>Kimberly P. Code, Northern Kentucky University, USA</i>	
<b>Podcasting as Disruptive Transmediation .....</b>	<b>54</b>
<i>Wesley Fryer, Texas Tech University, USA</i>	
<b>WebKit - Freiburg Templates for the Production of Online Learning Materials at the University of Freiburg .....</b>	<b>58</b>
<i>Reiner Fuest, Detlev Degenhardt, University of Freiburg, Germany</i>	
<b>Engaging the Online Learner in Academic Writing: The APA Format Interactive Tutorial .....</b>	<b>64</b>
<i>Victoria Hall, Anastasia McCune, Regis University, USA</i>	
<b>Faculty Support Strategies .....</b>	<b>70</b>
<i>Kimberly Hayworth, Stanford University, USA; William Koffenberger, The George Washington University, USA; Kimberly Hall, Emerson College, USA</i>	
<b>The Theoretical and Developmental Application of Online Simulations for Instruction in Interpersonal Communications.....</b>	<b>72</b>
<i>Randy Hollandsworth, Virginia Tech, USA</i>	
<b>Creating an on-line anatomy &amp; physiology course .....</b>	<b>76</b>
<i>Billy Irwin, Dianne Barber, Anna Hunt, Pil-Won On, Appalachian State University, USA</i>	
<b>Development of Web-Based Learning Materials for video production- To nurture the knowledge and skills of producing documentary - .....</b>	<b>77</b>
<i>Chiaki Iwasaki, Takaharu Nagai, Graduate school of Kansai University, Japan; Kenichi Kubota, kubota@res.kutc.kansai-u.ac.jp, Japan</i>	
<b>Evaluation of the concepts of web based learning materials for video production .....</b>	<b>82</b>
<i>Okano Takasei, Okano Takasei, Kubota Kenichi, Kubota Kenichi, kansai university, Japan</i>	
<b>The Use of Sound Technology to Enhance Learning in Instructional Software Development .....</b>	<b>87</b>
<i>Terry Kidd, University of Houston, USA; Holim Song, The Learning Institute of Texas, USA</i>	
<b>Codewitz – Creating Learning Objects for Better Programming Skills .....</b>	<b>93</b>
<i>Esa Kujansuu, Tampere Polytechnic, Finland</i>	
<b>Methods of Inclusion Project—Special Education Research and Innovation .....</b>	<b>98</b>
<i>Sondra Lettrich, Mary Spataro, Terrance DePasquale, Seton Hill University, USA</i>	
<b>E-Learning on Higher Education:- An Internet Course on Electronics Packaging .....</b>	<b>102</b>
<i>Yan Liu, School of Foreign Language and Literature of Beijing Normal University, China</i>	

<b>Domain knowledge navigating; course ware for a Masters in Transport &amp; Infrastructure .....</b>	<b>110</b>
<i>Marcel Ludema, Delft University of Technology, Netherlands</i>	
<b>Macromedia Breeze: Best Practices in Accessible Distance Education Content Development .....</b>	<b>116</b>
<i>Michael Lyman, Jonathan Whiting, National Center on Disability and Access to Education/WebAIM, Utah State University, USA</i>	
<b>Virtual Interactive Laboratories and e-Learning .....</b>	<b>120</b>
<i>Gerald Meisner, Harol Hoffman, LAAPPlatform Group / UNCGreensboro, USA</i>	
<b>Ontology-based Knowledge Administration .....</b>	<b>128</b>
<i>Alejandro Peña, WOLNM, CIC-UPHICSA-IPN, Mexico</i>	
<b>On e-learning by Organ Transplant Patients in a Hospital Setting .....</b>	<b>134</b>
<i>Thirivengadam Radhakrishnan, Sudhir Mudur, Concordia University, Canada; Norine Heywood, Royal Victoria Hospital, Canada</i>	
<b>Authoring and Delivery of Adaptive Electronic Textbooks made Easy .....</b>	<b>142</b>
<i>Ewald Ramp, Paul De Bra, Eindhoven University of Technology, Netherlands; Peter Brusilovsky, University of Pittsburgh, USA</i>	
<b>A Proposal for Teaching Children to Think Critically, Systemically and Beyond in an Online Virtual Classroom Setting .....</b>	<b>150</b>
<i>Kim Robinson, University of Missouri- St. Louis, USA</i>	
<b>XML-based 3D: Content Creators, the Web, and xVRML Are Ready for Each Other .....</b>	<b>154</b>
<i>Jeffrey Sonstein, IT Department, Rochester Institute of Technology, USA</i>	
<b>BCcampus - Using Open Source Models for Online Higher Education Resources .....</b>	<b>160</b>
<i>Paul Stacey, BCcampus, Canada</i>	
<b>Interpersonal Relations in Online Education .....</b>	<b>163</b>
<i>Dorian Stoilescu, University of Windsor, Canada</i>	
<b>WebQuests: Web-based Lessons in a Box .....</b>	<b>169</b>
<i>Penelope Swenson, California State University, Bakersfield, USA</i>	
<b>Universal Design &amp; The Web: Techniques, Problems, and Solutions .....</b>	<b>172</b>
<i>Terry Thompson, AccessIT, University of Washington, USA</i>	
<b>Courseware Development of English for Specific Purposes on Semiconductor .....</b>	<b>177</b>
<i>Shu-Chiao Tsai, Department of Applied Foreign Languages, Shu-Te University, Taiwan</i>	
<b>Development of e-Learning Content for English for Specific Purposes on Tourism and Travel ....</b>	<b>183</b>
<i>Shu-chiao Tsai, Department of Applied Foreign Languages, Shu-Te University, Taiwan; Ti-wan Kung, Department of Visual Communication Design, Shu-Te University, Taiwan</i>	
<b>Using Computer Software to Design Geometric Learning System Based on van Hiele Model .....</b>	<b>189</b>
<i>Tai-Yih Tso, Department of Mathematics National Taiwan Normal University, Taiwan</i>	
<b>Browsing the Web for Research: Development and Evaluation of Information Literacy Tutorials for Undergraduate Students .....</b>	<b>192</b>
<i>Connie Varnhagen, Department of Psychology, University of Alberta, Canada</i>	
<b>Developing Interactive e-Learning at BD Biosciences.....</b>	<b>193</b>
<i>C. Y. Janey Wang, Donna Gandour, Mai McGahan, BD Biosciences, USA</i>	
<b>Mission Critical - Forming a Disaster Recovery/Business Continuity Institute for Higher Education .....</b>	<b>199</b>
<i>Ruben Xing, Richard Peterson, School of Business, Montclair State University, USA; Ed Chapel, OIT, Montclair State University, USA</i>	
<b>Design and Development for Resource-Based Learning in Electronic Learning Environments .....</b>	<b>207</b>
<i>Young-Sun Yang, Young-Sun Yang, Kwandong University, Korea (South)</i>	
<b>The Role of Interaction in Enhancing Achievement and Student Satisfaction in an Online Course: A Rubric Analysis.....</b>	<b>214</b>
<i>Belle Alderman, University of Canberra, Australia</i>	
<b>An observatory of eLearning in Small Medium Enterprises (SMEs) in Europe - The Promise versus the Reality .....</b>	<b>220</b>
<i>Sinead Averill, Timothy B. Hall, University of Limerick, Ireland</i>	
<b>Data visualization in evaluating service delivery and in educating service providers in data analysis .....</b>	<b>226</b>
<i>Randy Basham, The University of Texas at Arlington, USA</i>	

<b>Evaluation of Online Courses: Integrating Principles of Effective Online Teaching Into Practice of Evaluation .....</b>	<b>231</b>
<i>Oksana Bendus, Deltak Edu, USA</i>	
<b>Using Web Tools to Develop and Assess Information and Technology Literacy Skills.....</b>	<b>234</b>
<i>Marwin Britto, Ian Quitadamo, Central Washington University, USA</i>	
<b>Evaluating the Effectiveness of Distance Learning Courses for International Students .....</b>	<b>237</b>
<i>Marina Buharkina, Russian Academy of Education, Russian Federation; Katherine Kuhns, Stanford University, USA; Marina Moisseeva, Russian Academy of Education, Russian Federation; John Nash, OpenEye Innovation Management, USA; Evgenia Polat, Russian Academy of Education, Russian Federation; Cathy Ringstaff, WestEd, USA; Reinhold Reinhold, Stanford university, USA</i>	
<b>Evaluating an Online Special Education Teacher Preparation Program .....</b>	<b>245</b>
<i>KayDee Caywood, Jane Duckett, National University, USA</i>	
<b>E-learning in Busy Retail Stores : Is Customer Training Effective? .....</b>	<b>251</b>
<i>Lily Chenh, RMIT University, Australia</i>	
<b>Specification of Project Design, Evaluation Design, and Evaluative Research Questions for Educational Technologies .....</b>	<b>259</b>
<i>Michael Coe, Northwest Regional Educational Laboratory, USA</i>	
<b>Assessing Students' Online Learning: Resources, Instruments and Strategies .....</b>	<b>261</b>
<i>Patricia Comeaux, University of North Carolina at Wilmington, USA</i>	
<b>From errors to stereotypes: Different levels of cognitive models in school algebra .....</b>	<b>262</b>
<i>Elisabeth Delozanne, Christian Vincent, CRIP5, France; Brigitte Grugeon, Jean-Michel Gélis, Didirem, France; Janine Rogalski, Université Paris 8, France; Lalina Coulange, Didirem, France</i>	
<b>EXUMAT 2.0: On-Line Mathematics Exam Based on the Item Response Theory .....</b>	<b>270</b>
<i>Lázaro Salomón Dibut Toledo, University of Cienfuegos, Cuba; Eduardo Backhoff, José Luis Ramírez, Autonomous University of Baja California, Mexico</i>	
<b>Using e-learning principles in an undergraduate nursing course .....</b>	<b>276</b>
<i>Peta Drury, Jennifer Hardy, Astrid Frotjold, ACU National, Australia</i>	
<b>Effectively Setting Limits in Online Education...Getting the Results You Want .....</b>	<b>282</b>
<i>Donna Eckstein, Capella University, USA</i>	
<b>Computer Adaptive Testing Quality Requirements .....</b>	<b>288</b>
<i>Anastasios Economides, University of Macedonia, Greece</i>	
<b>Best Practices for Preventing Cheating on On-line Exams .....</b>	<b>296</b>
<i>David Eplion, Thomas Keefe, Indiana University Southeast, USA</i>	
<b>Effects of Graphical-User and Command-Based Interfaces: A Pilot Study .....</b>	<b>300</b>
<i>Marla Fino, Wei-Fan Chen, The Pennsylvania State University, USA</i>	
<b>Media didactical aspects of quality assessment of online-learning material from Universities regarding different user groups .....</b>	<b>304</b>
<i>Gudrun Görlitz, Technische Fachhochschule Berlin, Germany</i>	
<b>Making E-learning More Effective .....</b>	<b>310</b>
<i>Kathleen Gray, The University of Melbourne, Australia; Jim McGovern, RMIT, Australia; Gail Hart, The University of Tasmania, Australia</i>	
<b>A Design-Based Research Framework for Assessing Web-Based Learning in Information Technology Education .....</b>	<b>318</b>
<i>Said Hadjerrouit, Agder University College, Faculty of Mathematics and Sciences, Norway</i>	
<b>Data Mining for Evaluation, Benchmarking and Reflective Practice in a LMS .....</b>	<b>326</b>
<i>Elizabeth Heathcote, Shane Dawson, Queensland University of Technology, Australia</i>	
<b>An Example for the Assessment of Educational Portals - A Case Study: "Kuleli Military High School" .....</b>	<b>334</b>
<i>Sahin Ipek, Marmara University, Turkey, Turkey; Abdullah Topcu, Middle East Technical University, Turkey</i>	
<b>Writing in LAMs with Moodle for eLISA PDS: An e-Learning Partnership in Greenwich, Oxford and Kent .....</b>	<b>342</b>
<i>Jill Jameson, Simon Walker, The University of Greenwich, UK</i>	
<b>Unavoidable collisions or inter-professional collaboration: The development and delivery of E-learning online Materials by multi-disciplinary teams.....</b>	<b>347</b>
<i>Catherine Jones, Michael Connolly, University of Glamorgan, UK</i>	

<b>Widening participation or widening the gap: Student reflections on re-entering education through on-line learning .....</b>	<b>353</b>
<i>Catherine Jones, University of Glamorgan, UK</i>	
<b>Strategic Evaluation of Organizational Learning: Comparison of Online Methodologies from the Healthcare and Higher Education Sectors.....</b>	<b>360</b>
<i>Claudia C. Lappin, Eli Lilly and Company, USA; Lauryl A. Lefebvre, Indiana University, USA</i>	
<b>Cybercoaching System .....</b>	<b>366</b>
<i>Kit Hang Leung, ZhiDong Zhang, McGill University, Canada</i>	
<b>Using Measurement To Drive Instructional Design: Experience From Two Years Of E-Learning In A General Education Science Course .....</b>	<b>369</b>
<i>Ralph Locklin, Sarah Rzasa Zappe, Pat Ray, Paul Howell, Penn State University, USA</i>	
<b>Emotional Effects of Observational Learning in Science Experiments Using Video Clips Recorded by Network Cameras .....</b>	<b>375</b>
<i>Toshio Mochizuki, Itsuo Hatono, Information Science and Technology Center, Kobe University, Japan; Sanae Tachibana, Masaji Fujimoto, Shin-ichi Kamiyama, Tomokazu Yamamoto, Sumiyoshi Elementary School Attached to Faculty of Human Development, Kobe University, Japan</i>	
<b>Improving traditional lecture-based courses by using formative assessment to identify students in need of extra tutoring programs. ....</b>	<b>381</b>
<i>Yasuko Namatame, Department of Information Technology, Faculty of Infrastructural Technologies, Hiroshima International University, Japan</i>	
<b>Documenting Value Added Learning Through Videoconferencing: K-12 Classrooms' Interactions with Museums .....</b>	<b>389</b>
<i>Dianna Newman, Evaluation Consortium, USA; Patricia Barbanell, John Falco, Project VIEW, USA</i>	
<b>Current Issues in Formative Usability Evaluation of Web-based Courseware .....</b>	<b>395</b>
<i>Thao Nguyen, Curtin University of Technology, Australia</i>	
<b>The Impact of an E-learning Management System on Student Achievement and Retention In an Irish Higher Education Institution.....</b>	<b>402</b>
<i>Carol O Shea, Seamus O Shea, Deirdre Lillis, Institute of Technology Tralee, Ireland; Mairead O Carroll, Institute of technology Tralee, Ireland</i>	
<b>Online Teacher Professional Development and Implementation Success: The Learning to Teach with Technology Studio (LTTS) Experience .....</b>	<b>407</b>
<i>Gihan Osman, Thomas Duffy, Indiana University, USA</i>	
<b>Assessment Across Delivery Methods: A Comparative Analysis of University Level Business Economics Courses.....</b>	<b>414</b>
<i>Laura Popovich, Jodey Lingg, City University, USA</i>	
<b>Evaluating Accessibility of a Graduate School Website for Users with Disabilities: User Testing Guidelines.....</b>	<b>420</b>
<i>Bernadette Sibuma, David Boxer, Paul Acquaro, Guillermo Creus, Teachers College, Columbia University, USA</i>	
<b>Blended Learning: Impacting Student Learning and Learning Styles through Integrating Web-Enhanced Course Components .....</b>	<b>422</b>
<i>Karl Smart, Central Michigan University, USA; Poonam Kumar, Saginaw Valley State University, USA; Anil Kumar, Central Michigan University, USA</i>	
<b>Pros &amp; Cons of e-Learning .....</b>	<b>430</b>
<i>Gryphon Sou, Asia International Open University (Macau), China</i>	
<b>Online Focus Groups: A Viable Data Gathering Method? .....</b>	<b>436</b>
<i>Lisa Spencer, Nedra Crow, National University, USA</i>	
<b>Regular vs. online vs. blended: a qualitative description of the advantages of the electronic modes and a quantitative evaluation .....</b>	<b>442</b>
<i>Michael Tang, Roxanne Byrne, Ronne Lippitt, University of Colorado at Denver and Health Sciences Center, USA</i>	
<b>Multimedia Use in Classrooms: What Students Like and Dislike .....</b>	<b>449</b>
<i>Weimin Wang, North Carolina Wesleyan College, USA</i>	
<b>Web-Based Systems for Evaluating Student Learning Outcomes.....</b>	<b>453</b>
<i>Paul Welch, University of Central Florida, USA</i>	
<b>Continuous Instructional Improvement: Assess Your Way to Success .....</b>	<b>458</b>
<i>Vicki Williams, Barry Williams, Penn State, USA</i>	

<b>Measuring Learning of the HbL Method of Teaching Science In an Online Staff Development Workshop for Teachers .....</b>	<b>462</b>
<i>Penne Wilson, Charlotte (Lani) Gunawardena, University of New Mexico, USA</i>	
<b>The Portfolio Assessment Model – Assessing Learning Outcomes and Program Review .....</b>	<b>468</b>
<i>Brad Young, Susan Jones, Zayed University, United Arab Emirates</i>	
<b>Evaluating Effectiveness of Blackboard System Using TAM Framework: A Structural Analysis Approach .....</b>	<b>477</b>
<i>Ibrahim Abdalla, United Arab Emirates University, United Arab Emirates</i>	
<b>Ecological Perspectives on Distance-Learning .....</b>	<b>482</b>
<i>Hope Adams, Jane Strickland, Dorothy Sammons, Idaho State University, USA</i>	
<b>Building Student Relationships .....</b>	<b>488</b>
<i>Judy Adams, Southern Alberta Institute of Technology Polytechnic, Canada</i>	
<b>Collaboration, Leadership, and Teamwork in Online Learning .....</b>	<b>493</b>
<i>Kay Allen, University of Central Florida, USA</i>	
<b>Management Strategies for Online Teaching .....</b>	<b>497</b>
<i>Kay Allen, Judy Lee, University of Central Florida, USA</i>	
<b>Lifelong Learning and Greek Diaspora towards the Global Information Society: Suggested e- Learning Monitoring Methodology (e-LMM) .....</b>	<b>501</b>
<i>Panagiotes Anastasiades, University of Crete, Department of Education, Greece</i>	
<b>The Community System of Support .....</b>	<b>509</b>
<i>Sandi Atols, Chicago Public Schools, USA</i>	
<b>Potential Uses for Weblogs in Electronic Course Delivery .....</b>	<b>515</b>
<i>Philip Barker, University of Teesside, UK</i>	
<b>Visualizing data on violence against children: Detection and prevention of violence in statewide child protective services (CPS) using an online analytical processing (OLAP) technology and online training .....</b>	<b>523</b>
<i>Randy Basham, Joan Rycraft, Dick Schoech, The University of Texas at Arlington, USA</i>	
<b>Practice Report on Contextual Dynamic Examinations based on the Integrative Use of Computers .....</b>	<b>529</b>
<i>Martin Baumann, RWTH Aachen University, Helmholtz-Institute, Germany; Patrick Blum, RWTH Aachen University, Institute of Medical Statistics, Germany; Volker Perlitz, RWTH Aachen University, Clinic for Psychosomatics and Psychotherapeutic Medicine, Germany</i>	
<b>BCIT's Technology-enabled Knowledge (TEK) Initiative: New models for learning and teaching drive organizational change .....</b>	<b>535</b>
<i>Maggie Beers, Chris Golding, Vivian Forssman, British Columbia Institute of Technology, Canada</i>	
<b>Grassroots Projects: Fostering and supporting an institute-wide culture of innovation .....</b>	<b>536</b>
<i>Maggie Beers, Terry Fuller, Valia Spiliotopoulos, British Columbia Institute of Technology, Canada</i>	
<b>Enhancing Teaching Presence and Reducing Distance Using Voice Technologies .....</b>	<b>537</b>
<i>Karen Belfer, British Columbia Institute of Technology, Canada; Tannis Morgan, University of British Columbia, Canada</i>	
<b>Fundamentals of Business Administration: From Hybrid to Completely Online .....</b>	<b>543</b>
<i>Robert Bisking, Our Lady of the Lake University, USA</i>	
<b>Implementing a Synchronous Learning System in Distance Programs: Impressions from within a Faculty of Education .....</b>	<b>546</b>
<i>Raj Boora, Kim Peacock, JoAnne Davies, Mike Carbonaro, Joyce Bainbridge, Fern Snart, University of Alberta, Canada</i>	
<b>Knowledge Navigation and Evolutionary Prototyping in E-Learning Systems .....</b>	<b>552</b>
<i>Yuri Boreisha, Minnesota State University Moorhead, USA; Oksana Myronovych, North Dakota State University, USA</i>	
<b>Alcohol Screening and Brief Intervention on the Web: A first look at WBT through the four lenses of Kirkpatrick's Levels of Evaluation .....</b>	<b>560</b>
<i>Lessell Bray, University of West Georgia, USA</i>	
<b>Writing, Technology, Teachers and Administrators—A Year-long Collaborative Model .....</b>	<b>564</b>
<i>Marwin Britto, Bobby Cummings, Central Washington University, USA</i>	
<b>Building a Content Heavy, Internationalized e-Learning Tool: Lessons Learned .....</b>	<b>569</b>
<i>Pauline Brutlag, Tanya Podchiyska, Parvati Dev, Brent Fitzgerald, Lee Brimelow, SUMMIT (Stanford University Medical Media and Information Technologies), USA</i>	

<b>Virtual Universities and e-Universities in Developing Nations: New Approach for Emerging Challenges</b> .....	<b>575</b>
<i>Amardeep Chauhan, Bhupendrabahadur Singh, G.B. Pant University of Ag. and Technology, India</i>	
<b>Using the Computer for Practicing Pronunciation in ESL Class</b> .....	<b>581</b>
<i>Peter Chou, Wenzao Ursuline College of Languages, Taiwan</i>	
<b>E-Learning in a Medium-Sized State University: Problems &amp; Successes</b> .....	<b>584</b>
<i>Mary Ann Coe, Martha Burger, Midwestern State University, USA</i>	
<b>From 0 to 6000: Creating an Attitudinal Infrastructure</b> .....	<b>587</b>
<i>Giuliana Colalillo, Sandra Hodder, Sheridan Institute of Technology &amp; Advanced Learning, Canada</i>	
<b>A Post-Secondary Teaching Scenario for “Tomorrow”</b> .....	<b>594</b>
<i>Leon Combs, Kennesaw State University, USA</i>	
<b>A passage to online scholarship: One institution's struggle with high-stakes change</b> .....	<b>601</b>
<i>Benjamin Coulter, John LeBaron, Beth Coulter, Anna McFadden, College of Education, Western Carolina University, USA</i>	
<b>Use of Web logs (Blogs) in Learning Environments: Blogs for Student Support</b> .....	<b>607</b>
<i>Mohammad Dastbaz, Ryan Flynn, Phil Clipsham, University of Greenwich, UK</i>	
<b>Use of a Virtual Collaboration System to Support Sharing Effective Practices in Reproductive Health</b> .....	<b>612</b>
<i>Chris Davis, Margaret D'Adamo, Johns Hopkins Center for Communication Programs, USA; William Finger, Family Health International/ YouthNet, USA</i>	
<b>An Online Professional Development Model for Pre-service Teacher Education</b> .....	<b>617</b>
<i>Jon Denton, Trina Davis, Ben L. Smith, Lynn Beason, eEducation Group, Texas A&amp;M University, USA; R. Arlen Strader, College of Education &amp; Human Development, Texas A&amp;M University, USA</i>	
<b>A Case Study: When Undergraduates Attend Synchronous Lectures</b> .....	<b>625</b>
<i>Min Young Doo, James Madison University, USA</i>	
<b>Online In-service: Problems and Possibilities for Teachers in the Field</b> .....	<b>629</b>
<i>Anthony Dralle, East Carolina University, USA</i>	
<b>Designing Cross-Cultural Distance Education Program for Facilitating Pedagogical Change: Challenges and Strategies</b> .....	<b>634</b>
<i>Thomas Duffy, Gihan Osman, Indiana University, USA</i>	
<b>New Features for eLearning in Higher Education for Civil Engineering</b> .....	<b>635</b>
<i>Martin Ebner, Nikolai Sherbakov, Hermann Maurer, Graz University of Technology, Austria</i>	
<b>The Development of the Adaptive Item Language Assessment (AILA) for Mixed-Ability Students</b> .....	<b>643</b>
<i>Anastasios Economides, University of Macedonia, Greece</i>	
<b>Electronic Resources in Teaching Mathematics Online</b> .....	<b>652</b>
<i>Alexander Feinstein, Berkeley College, USA</i>	
<b>Synchronous Streaming Video from the Classroom to the Remote Student's Desktop: Report of a Distributed Education Project</b> .....	<b>654</b>
<i>Eric Flower, Stacey Sawa, University of Hawai'i-West O'ahu, USA</i>	
<b>Bridging the Digital Divide: An Online Technology Training Program for K-12 Educators in Economically Challenged School Districts</b> .....	<b>660</b>
<i>J. Elizabeth Gibbs, Gibbs Learning Technologies, LLC, Northport, AL, USA; Randy J. Lane, Fayetteville State University, Fayetteville, NC, USA; Linda J. Lane, The University of Alabama, Tuscaloosa, AL, USA</i>	
<b>Building School Web Programs: An Online Web Development Training Program for K-12 Educators</b> .....	<b>663</b>
<i>J. Elizabeth Gibbs, Gibbs Learning Technologies, LLC, USA</i>	
<b>Assuring Quality Through the Sharing of e-Learning Resources</b> .....	<b>666</b>
<i>Jenny Gilbert, Elaine Brown, Bob Cole, Tom Scott, Anglia Polytechnic University, UK</i>	
<b>Interaction Matters</b> .....	<b>670</b>
<i>Lowell M Glenn, Gregory Berry, Utah Valley State College, USA</i>	
<b>Taking Advantage of Social Distributed Learning: A Multipurpose On-line Graduate Course</b> .....	<b>679</b>
<i>Victor M. González- Romero, Rocío Preciado, María Morfín, Claudio Vásquez, Universidad de Guadalajara, Mexico</i>	