Proceedings of the Third International Conference on E-Learning in the Workplace

ICELW 2010

New York, NY, USA June 9-11, 2010

Copyright 2010 Kaleidoscope Learning, Inc. All rights reserved.

Edited by David Guralnick

ISBN: 978-1-61738-968-9

With any questions: please contact us at info@icelw.org.

Conference Chair

David Guralnick, Kaleidoscope Learning, New York, NY, USA

ICELW 2010 Executive Committee

A.Y. Al-Zoubi, Princess Sumaya University of Technology, Amman, Jordan Carme Anguera Iglesias, Open University of Catalonia, Barcelona, Spain Michael E. Auer, Carinthia Tech Institute, Villach, Austria
John Black, Teachers College, Columbia University, New York, NY, USA Patrick Blum, Inside Business Group, Aachen, Germany
Hal Christensen, Christensen/Roberts Solutions, New York, NY, USA Gary J. Dickelman, EPSSCentral, Annandale, VA, USA
Marga Franco i Casamitjana, Open University of Catalonia, Barcelona, Spain Debora Larson, Kaleidoscope Learning, New York, NY, USA Christine Levy, Kaleidoscope Learning, New York, NY, USA Anders Morch, InterMedia, University of Oslo, Oslo, Norway Andreas Pester, Carinthia Tech Institute, Villach, Austria

ICELW 2010 Program Committee

Mohammed Ally, Athabasca University, Canada Sarah Appleby, Online Learning International, New York, NY, USA Kenneth G. Brown, University of Iowa, Iowa City, Iowa, USA Martha Burkle, Southern Alberta Institute of Technology, Calgary, Canada Robert Campbell, Cerner Corporation, Kansas City, Missouri, USA Mihai Caramihai, University Politehnica Bucharest, Bucharest, Romania Mark Cassetta, Pfizer, New York, NY, USA Lisa Cohen, AFS Intercultural Programs, New York, NY, USA Arthur Edwards, University of Colima, Mexico Samir El-Seoud, Princess Sumaya University of Technology, Amman, Jordan David Foster, DeVry University Online, Naperville, Illinois, USA Sarah Frame, University of East London, London, England Jivika Govil, Carnegie Mellon University, Pittsburgh, PA, USA Manir Abdullahi Kamba, Bayero University, Kano, Nigeria Okba Kazar, Biskra University, Algeria Mohamed-Khireddine Kholladi, University Mentouri Constantine, Algeria JC Kinnamon, SAI Global, Plainsboro, New Jersey, USA Jessica Kohlbecker, Public Research Centre Henri Tudor, Luxembourg Molly Koenen, Target Corporation, Minneapolis, Minnesota, USA Maria Lambrou, University of the Aegean, Greece Mark J. W. Lee, Charles Sturt University, Australia Amirhassan Monadjemi, University of Isfahan, Iran Grace O'Malley, National College of Ireland, Dublin, Ireland Rikke Orngreen, Danish School of Education, Copenhagen, Denmark

Anna Peachey, Open University, UK Laura Ricci, Università Telematica Guglielmo Marconi, Rome, Italy Andree Roy, University of Moncton, Canada John Sandler, Telstra Corporation, Australia Jens Schroeter, Siemens AG, Iselin, New Jersey, USA Julie-Ann Sime, Lancaster University, UK Lenka Slavíková, Charles University Prague, Prague, Czech Republic Christian Stracke, eLC Institute for eLearning, Bonn, Germany Terri-Lynn Thompson, University of Alberta, Edmonton, Alberta, Canada Caryn Tilton, MyPlacetoLearn, Welches, Oregon, USA Leyla Y. Tokman, Anadolu University, Eskisehir-Turkey Chris Turner, University of Winchester, Winchester, UK Karin Tweddell Levinsen, Danish University of Education, Denmark Maggie M. Wang, The University of Hong Kong, Hong Kong Steve Wheeler, University of Plymouth, Plymouth, UK Annika Wiklund-Engblom, Abo Akademi University, Vasa, Finland Peter Wren, Imperial College London, London, UK Rusen Yamacli, Anadolu University, Eskisehir-Turkey

Foreword

These proceedings contain the papers from the International Conference on E-Learning in the Workplace (ICELW) 2010, which was held on the campus of Columbia University in New York from June 9-11, 2010.

ICELW is an international conference focused on e-learning in the workplace. With researchers and practitioners coming from around the globe--and from university and business settings--ICELW works to improve online learning so that it makes a measurable difference in workplace performance and morale.

ICELW 2010 continued to build on previous ICELW conferences, with an increased focus on demonstrations of e-learning work. Our presenters came from a variety of backgrounds and from nearly 30 countries. Our program included excellent keynotes from Tony O'Driscoll and Jonathon Levy, as well as a fascinating panel discussion led by Hal Christensen.

This proceedings book contains all academic papers that were accepted into ICELW 2010. Since ICELW mixes academia and the business world, we also had a large number of presenters who chose not to publish a paper in the proceedings. The conference CD-ROM, available separately, contains .pdf versions of these papers as well as the presentation slides and related materials that were submitted by presenters.

I want to thank our keynote speakers, our Executive Committee and Program Committee members, and all of our presenters for a wonderful ICELW 2010 event. The International E-Learning Association (www.ielassoc.org) and Teachers College at Columbia University played key roles in ICELW. And of course the conference could not happen without our wonderful conference staff, led by Veira Petersen.

We hope you enjoyed ICELW 2010 and hope to see you back in New York for ICELW 2011.

David Guralnick, Ph.D.

DalAM

New York, NY, USA

July 2010

International Conference on E-Learning in the Workplace 2010 Conference Proceedings

TABLE OF CONTENTS

SPREELAND: AN EXPERT AVATAR SOLUTION FOR VIRTUAL WORLD E-LEARNING	
ENVIRONMENTS Akram Al-Kouz, Winfried Umbrath, Ernesto William De Luca and Sahin Albayrak	
DAI Labor, Technical University of Berlin, Berlin, Germany	
MOBILE LEARNING IN ENGINEERING EDUCATION: THE JORDAN EXAMPLE A.Y. Al-Zoubi, Princess Sumaya University for Technology/ Deanship of Graduate School and Scientific Research, Amman, Jordan	8
Sabina Jeschke, RWTH Aachen University, Center for Learning and Knowledge Management & Institute of Information Management in Mechanical Engineering (ZLW/IMA), Aachen, Germany Olivier Pfeiffer, Technische Universität Berlin/Center for Multimedia in Education and Research, Berlin, Germany	
IMPROVING MEDICAL CALCULATION SKILLS FOR GRADUATED NURSES WITH E-LEARNING IN HOSPITALS	16
Valère Awouters, Ruben Jans Limburg Catholic University College, Teacher Training Department, Hasselt, Belgium	
A PLATFORM FOR SOCIAL NETWORKING Felipe Azevedo, Marco Aurélio Spyer E-Guru, São Paulo, Brazil Anelise Prates E-Guru, Belo Horizonte, Brazil	20
A MODEL FOR THE APPLICATION OF INTERACTIVE DIGITAL TELEVISION TO COMMUNITIES OF PRACTICE	23
Marcus de Melo Braga, Paloma Maria Santos, Marcus Vinicius A. S. Ferreira and Mario A. R. Dantas Federal University of Santa Catarina / Department of Knowledge Engineering, Florianopolis, Brazil	
E-LEARNING EXPERIENCES THROUGH THE GLOBAL SEMINAR AT THE FACULTY OF AGRICULTURE (UNIVERSITY OF FIRENZE) Elena Bresci and Mario Falciai	2 9
Dipartimento di Economia, Ingegneria, Scienze e Tecnologie Agrarie e Forestali, Università di Firenze, Firenze, Italy	
DESIGNING E-LEARNING IN VIRTUAL WORLDS FOR APPRENTICESHIP STUDENTS IN CANADA Martha Burkle	32
SAIT Polytechnic/ CISCO Chair in e-Learning, Calgary, Canada	
PEDAGOGICAL PILLARS FOR ELEARNING DESIGN IN VOCATIONAL EDUCATION & TRAINING (VET)	36
Mihai Caramihai, Simona Caramihai University POLITEHNICA, Bucharest, Romania Pedagogical Pillars for eLearning Design in Vocational Education & Training (VET)	

MANAGEMENT, COMPLEXITY AND PERDURABILITY: AN EXPERIENCE FOR A LABORATORY FOR MODELING AND SIMULATION IN COLOMBIA Carlos Eduardo Maldonado, Johann Heinz Martínez, Ivan Alfredo Mendoza, Liliana Mendoza, and Francisco Ortega Rosario University/Modeling and Simulation Laboratory, Bogotá, Colombia	39
MOBILE COMMUNITIES IN THE LEARNING CONTEXT: A POSSIBLE APPROACH Luigi Colazzo, Andrea Molinari and Nicola Villa University of Trento, Trento, Italy	44
USING BASIC DIGITAL MEDIA TOOLS FOR TRAINING EMPLOYEES Andy Curran and Karen Lankisch University of Cincinnati/Clermont College, Batavia, OH, USA	50
USE OF ICT IN THE MANAGEMENT OF EDUCATIONAL INSTITUTIONS: THE CASE OF SILESIAN COLLEGE OF ECONOMICS AND ADMINISTRATION IN BYTOM — POLAND Miroslaw Czapka Silesian College of Economics and Administration in Bytom — Poland Luis Ochoa Siguencia, Renata Ochoa Daderska Upper Silesian College of Pedagogy Cardinal A. Honld in Myslowice — Poland	54
THE DESIGN AND DEVELOPMENT OF AN EXPERT SYSTEM PROTOTYPE FOR ENHANCING EXAM QUALITY Paul DeCarlo, Nouhad Rizk University of Houston, Computer Science Department, Houston, USA	60
CURRENT STATE OF E-LEARNING AT SOME TECHNICAL UNIVERSITIES IN THE CZECH REPUBLIC Dana Dobrovská, David Vaněček Czech Technical University in Prague, Masaryk Institute of Advanced Studies, Dpt. of Engineering Pedagogy, Prague, Czech Republic	65
THE E-ADULT LEARNER: THE DEFINITIVE CLASSIC IN E-WORKPLACE DEVELOPMENT Linda Ellington Palm Beach Atlantic University, West Palm Beach, Florida, USA Valerie Bryan	69
Florida Atlantic University, Boca Raton, Florida, USA DISTANCE EDUCATION IN THE FORM OF E-LEARNING IN CHILE: TRAINING HUMAN CAPITAL FOR THE 21ST CENTURY Daniel Farcas UNIACC University/Rector Santiago, Chile Marion Reininger UNIACC University/Researcher, Santiago, Chile	76

PROJECT ELOQ - INTEGRATING UNIVERSAL ACCESSIBLE E-LEARNING IN VOCATIONAL EDUCATION OF ADOLESCENTS WITH DISABILITIES Björn Fisseler Department of Rehabilitation Technology and Department of Vocational Education and Rehabilitation, TU Dortmund, Germany Peter Jeschke Department of Vocational Education and Rehabilitation, TU Dortmund, Dortmund, Germany Michael Schaten Department of Rehabilitation Technology, TU Dortmund, Dortmund, Germany	82
E-LEARNING SUPPORT FOR ACCREDITED WORK-BASED LEARNING Peter J. Green, Heather Skinner and Haydn Blackey University of Glamorgan/Centre for Excellence in Learning and Teaching, Pontypridd, UK	88
HOW TO MOTIVATE PARTICIPATION IN INFORMAL WORKPLACE LEARNING: PARTICIPATORY METHODS AND THEIR IMPLICATIONS Teresa Holocher, Barbara Kieslinger and Claudia Magdalena Fabian Centre for Social Innovation/Technology & Knowledge, Vienna, Austria	93
PROFESSIONAL MENTORING PROGRAM THROUGH VIRTUAL MEDIA: CHALLENGES AND IMPACT Rana Khan University of Maryland University College, Biotechnology Program, Information and Technology Systems, Adelphi, USA Arhonda Gogos External Evaluator, Dept. of Education grant Heloisa Siffert University of Maryland University College, Biotechnology Program, Information and Technology Systems, Adelphi, USA	100
USING SECOND LIFE FOR JUST-IN-TIME TRAINING: BUILDING TEACHING FRAMEWORKS IN VIRTUAL WORLDS Gail Kopp University of Calgary/Faculty of Education, Calgary, Canada Martha Burkle SAIT Polytechnic/ CISCO Chair in e-Learning, Calgary, Canada	105
THE FORMATION OF AN E-BASED INTERACTIVE DIGITAL SYSTEM IN ARCHITECTURAL EDUCATION: THE ADA PLATFORM Sevinc Kurt Cyprus International University/Department of Architecture, Nicosia, Cyprus	112
LIFELONG LEARNING IN VIRTUAL ENVIRONMENTS: COLLABORATIVE LEARNING Maria Cristina Lima Paniago Lopes Universidade Católica Dom Bosco / Programa de Pós-Graduação Mestrado e Doutorado em Educação, Campo Grande, Brazil Adelina Silva Universidade Aberta, Portugal	117

TEACHING HYBRID UNDERGRADUATE CLASSES WITH ONLINE STUDENTS Pamela Lowry Lawrence Technological University/Mathematics Department, Southfield, Michigan USA	121
CHAMILO 2.0: A SECOND GENERATION OPEN SOURCE E-LEARNING AND COLLABORATION PLATFORM Jean-Marie Maes University College Ghent, Ghent, Belgium	128
REACHING DISTANCE LEARNERS' FUTURE NEEDS IN E-LEARNING	134
A. Malalasekera and R. K. Stobart Loughborough University, Department of Aeronautical and Automotive Engineering, Loughborough, UK	
WEB 2.0 IN CORPORATE TRAINING: NEW POSSIBILITIES FOR IMPLEMENTING E-LEARNING WITHIN ORGANISATIONS Josep Antoni Martínez-Aceituno, Xavier Mas García, Universitat Oberta de Catalunya (UOC)/Open Innovation Office, Barcelona, Spain Mildred Guinart Orpinell, Jesús Mendoza Jorge Universitat Oberta de Catalunya (UOC)/Bespoke Training, Barcelona, Spain	137
LEARNING IN THE LABORATORY: ONLINE CPD COURSES IN QUALITY MANAGEMENT AND TRAINING FOR BIOMEDICAL SCIENTISTS Damien McConville Access and Distributed Learning, University of Ulster, Belfast, United Kingdom Alan Wainwright Institute of Biomedical Science, London, United Kingdom	145
DESIGNING MOTIVATING ONLINE GAMES FOR THE NEXT GENERATION OF WORKERS Sofia Mysirlaki and Fotini Paraskeva University of Piraeus, Department of Digital Systems, Piraeus, Greece	149
COMPARATIVE EVALUATION OF INTERNET BASED DISTANCE EDUCATION IN THE GREEK HIGHER TECHNOLOGICAL EDUCATION DURING THE PERIOD 2007-2010 D. Papachristos, K. Alafodimos Department of Automation, School of Engineering, TEI of Piraeus, Piraeus, Greece M. Kalogiannakis University of Crete, Department of Preschool Education, Crete, Greece E. Zafeiri Department of Automation, School of Engineering, TEI of Piraeus, Piraeus, Greece P. Kikilias Department of Mathematics, TEI Piraeus, Piraeus, Greece	155
ADAPTATION OF LEARNING OBJECTS TO THE CONTEXT OF DIGITAL TELEVISION: A DISCUSSION ON INTERNATIONAL RESEARCH Claudia Alexandra de Souza Pinto, Airton Zancanaro, Neri dos Santos and José Leomar Todesco Federal University of Santa Catarina/Department of Engineering and Knowledge Management, Florianópolis, Brazil	160
TOWARDS SUPPORTING EFFECTIVE INTERACTION IN E-LEARNING Paola Plantamura, Enrica Gentile, Nicole Novielli Dipartimento di Informatica, Università degli Studi di Bari, Bari, Italy	166

THE IMPACT OF OPEN SOURCE SOFTWARE ON AN EDUCATIONAL BUSINESS MODEL V. L. Plantamura, A. Marengo and A. Pagano University of Bari/Computer Science Department, Bari, Italy	172
TOPIC-SPECIFIC LEARNING MANAGEMENT SYSTEMS THROUGH SELF-CONTAINED APPLETS Abhijit Poddar Dept. of Electronic Science, Surendranath Evening College, Kolkata, India	179
PAIN WAR GAME - HOW PHARMACEUTICAL EXECUTIVES CAN ACHIEVE EXCELLENCE IN MARKETING Anelise Prates E-Guru, Belo Horizonte, Brazil Felipe Azevedo Marco Aurélio Spyer E-Guru, São Paulo, Brazil	191
AN OBJECT-ORIENTED PACKAGE FOR DISPLAYING ONLINE EXAM SCORES Anastasia Psychari University of Barcelona/ Electrical and Electronic Department, Barcelona, Spain Kalliopi-Evangelia Stavroulia ASPETE & Roehampton University/Education Department, Athens, Greece	194
MA/START: SPECIFYING TRAINING AND INSTRUCTION REQUIREMENTS USING MORPHOLOGICAL ANALYSIS Tom Ritchey Swedish Morphological Society/Ritchey Consulting, Stockholm, Sweden	200
GEAR: A GAME BASED ON E-LEARNING AND AUGMENTED REALITY CONCEPTS Nouhad Rizk, Oscar Gomez University of Houston, Computer Science department, Houston, USA	210
PRODUCTIVITY AND ECONOMIC PERFORMANCE: DOES E-LEARNING MAKE A DIFFERENCE FOR SMALL AND MEDIUM-SIZED ENTERPRISES Andrée Roy Université de Moncton, Moncton, NB, Canada	215
PROJECT USABILITY: SCHMOOSABILITY WHAT DOES IT MATTER? John Sandler Telstra Corporation, Melbourne, Australia	222
THE DEVELOPMENT AND IMPLEMENTATION OF AN ADAPTIVE, INTERACTIVE DISTANCE LEARNING COMPLEX Larissa Savyuk, Yuriy Bezgachnyuk and Roman Matviyenko Private college "Galytska Academy" / UNESCO Department "New information technologies in education for all", Ivano-Frankivsk, Ukraine	226

E-LEARNING FOR TEACHERS: BEST PRACTICES FOR MODELING E-TEACHING PRACTICES FOR E-LEARNERS WHO WILL BECOME TEACHERS Barbara Schwartz-Bechet University of Maryland University College/Education, Adelphi, MD, USA	232
GAINING CULTURAL INTELLIGENCE THROUGH SECOND LIFE LEARNING INTERVENTIONS Sarah E. Siegel IBM's Center for Leaning and Development, Center for Advanced Learning; Teachers College, Columbia University/Organization & Leadership, New York, USA	236
MIXING VIDEO, AUDIO AND STILL PHOTOGRAPHY FOR TOPICS IN E-LEARNING DESIGN, DEMONSTRATED ON A REAL PROJECT Werner Sobotka VFG Association of research in media technology, Vienna, Austria	242
ELECTRONIC EDUCATION AND ITS UTILIZATION AT THE CZECH TECHNICAL UNIVERSITY IN PRAGUE David Vaněček, Dana Dobrovská Czech Technical University in Prague, Masaryk Institute of Advanced Studies (MIAS), Dpt. of Engineering Pedagogy, Prague, Czech Republic	244
RELOAD - A SEMANTIC-BASED LEARNING AND KNOWLEDGE PLATFORM FOR EMPLOYEES OF THE DO-IT-YOURSELF INDUSTRY F. Welter RWTH Aachen University / Center for Learning and Knowledge Management and Institute of Information Management in Mechanical Engineering, Aachen, Germany O. Pfeiffer Technische Universität Berlin (TU Berlin) / Center for Multimedia in Education and Research School of Mathematics and Natural Sciences, Berlin, Germany A. Richert and S. Jeschke RWTH Aachen University / Center for Learning and Knowledge Management and Institute of Information Management in Mechanical Engineering, Aachen, Germany	251
AN ANALYSIS OF THE USE OF BLOGGING TO SOLICIT FEEDBACK IN A HIGHER EDUCATION UNIT Ting Yuan, Gary Natriello, Stephen Asunka, Jeannie Crowley, and Hui Soo Chae The EdLab, Teachers College, Columbia University, New York, USA	255
A CASE STUDY OF THE USE OF A WIKI IN A HIGHER EDUCATION RESEARCH UNIT Ting Yuan, Gary Natriello, Stephen Asunka, Jeannie Crowley, and Hui Soo Chae The EdLab, Teachers College, Columbia University, New York, USA	261