

13TH ANNUAL

ED-MEDIA 2001

World Conference on
Educational Multimedia,
Hypermedia & Telecommunications

Final Program

June 25-30, 2001 • Tampere, Finland



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- PAPERS
- PANELS
- SIG DISCUSSIONS
- INTERACTIVE SESSIONS
- TUTORIALS/WORKSHOPS
- POSTERS/DEMONSTRATIONS
- CORPORATE DEMONSTRATIONS



AACE

Association for the Advancement of Computing in Education

Celebrating 20 Years (1981-2001)

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ED-MEDIA 2001

World Conference on
Educational Multimedia,
Hypermedia & Telecommunications

OVERVIEW

SUNDAY, JUNE 24

Registration (Tampere Hall) 4:00-8:00 PM

MONDAY, JUNE 25

Registration (Tampere Hall) 7:30 AM-5:00 PM

Morning Tutorials/Workshops 8:30 AM-12 NOON

Lunch Break 12 Noon-1:30 PM

Afternoon Tutorials/Workshops 1:30-5:00 PM

TUESDAY, JUNE 26

Registration (Tampere Hall) 7:30 AM-6:00 PM

Morning Tutorials/Workshops 8:30 AM-12 NOON

Lunch Break 12 Noon-1:30 PM

Afternoon Tutorials/Workshops 1:30-5:00 PM

Welcome Reception 7:00-8:30 PM

WEDNESDAY, JUNE 27

Registration (Tampere Hall) 7:30 AM-5:00 PM

Welcome & General Session (Keynote) 8:15-9:30 AM

Beverage Break 9:30-10:00 AM

Morning Concurrent Sessions 10:00 AM-12:15 PM

Lunch Break 12:15-1:30 PM

Afternoon Concurrent Sessions 1:30-5:00 PM

Beverage Break 2:30-2:45 PM

SIG Discussions 5:00-6:00 PM

Poster/Demonstrations 6:00-8:00 PM

THURSDAY, JUNE 28

Registration (Tampere Hall) 8:00 AM-5:00 PM

General Session (Keynote) 8:30-9:30 AM

Beverage Break 9:30-10:00 AM

Morning Concurrent Sessions 10:00 AM-12:15 PM

Lunch Break 12:15-1:30 PM

Afternoon Concurrent Sessions 1:30-5:00 PM

Beverage Break 2:30-2:45 PM

Poster/Demonstrations 6:00-8:00 PM

FRIDAY, JUNE 29

Registration (Tampere Hall) 8:00 AM-5:00 PM

General Session (Keynote) 8:30-9:30 AM

Beverage Break 9:30-10:00 AM

Morning Concurrent Sessions 10:00 AM -12:15 PM

Lunch Break 12:15-1:30 PM

Afternoon Concurrent Sessions 1:30-5:00 PM

Beverage Break 2:30-2:45 PM

Finnish Evening (see details below) 6 PM-

SATURDAY, JUNE 30

Registration (Tampere Hall) 8 AM-4:15 PM

General Session (Keynote) 8:30-9:30 AM

Beverage Break 9:30-10:00 AM

Morning Concurrent Sessions 10:00 AM-12:15 PM

Lunch Break 12:15-1:30 PM

Afternoon Concurrent Sessions 1:30-3:45 PM

Closing Remarks 3:45-4:15 PM

NOTE: For presentation room locations,
see pages 31 and 32.

For Social Program and Tour dates/times, see:
<http://www.uta.fi/hyper/edmedia>

KEYNOTE SPEAKERS

June 27, 8:30-9:30 AM

E-Learning and M-Learning in the Corporate Sector; Need for New Concepts and a New Mindset for Learning, Training and Competence Development

Juha Lipiäinen, Director, System & Application Development in Broadband Systems Unit in Nokia Networks, Nokia, Finland

June 28, 8:30-9:30 AM

E-Learning to Solve Problems

David Jonassen, University of Missouri, USA

June 29, 8:30-9:30 AM

The Learning Federation: A Research Agenda for Transforming Learning in the Digital Age

Randy J. Hinrichs, Group Research Manager, Learning Sciences and Technology, Microsoft Research, Microsoft, USA

June 30, 8:30-9:30 AM

Guidelines for Designing and Developing Online e-Learning Courses Including Intellectual Property Considerations

Gary Bitter, Arizona State University, USA

INVITED SPEAKERS

June 27

E-Learning: Instructional Design Considerations

Barbara Grabowski, Instructional Systems Program, Pennsylvania State University, USA

Learning Repositories - Technology and Context

Wolfgang Nejdl, University of Hannover, Germany

June 28

E-Learning and the Professorate: The Issue of Productivity

Thomas C. Reeves, The University of Georgia, USA

Relationships Among Learner Characteristics, Course Design Factors, and Student Perceptions of Learning Online

Karen Swan, University at Albany Graduate School of Education; Director of the Learning Technologies Laboratory and the Summer Technology Institute, USA

June 29

Linking Organizational Knowledge and Learning

Betty Collis, University of Twente, The Netherlands

The Online Learning Alchemist: Strategies for Preventing Gold from Turning into Lead

Rod Sims, Deakin University, Australia

June 30

The Galileo Educational Network: Bringing Learning to Learners

Pat Clifford & Sharon Friesen, Galileo Educational Network, Canada

Dynamic Tools for Problem-based Learning

Erno Lehtinen, Professor of Education, University of Turku, Finland

FRIDAY, JUNE 29 • FINNISH EVENING • 6:00 PM -?

Experience a cruise on Lake Näsijärvi with a 93-year-old romantic Steamship s/s Tarjanne. See the fabulous route to Maisansalo and spend a mild summer night by beautiful lakeside. Delicious Finnish Menu is served in Maisansalo. The way to

Maisansalo by steamship, return by bus or vice versa. **Cost:** 70 EUR;

Registration: <http://www.uta.fi/hyper/edmedia/programme.html>

Tutorials & Workshops – Monday, June 25 & Tuesday, June 26

Tutorials and Workshops will be held at the University of Tampere. Tutorials are indicated by a **T#** and have a lecture/demonstration format. Workshops are indicated by a **W#** and are primarily hands-on sessions.

MONDAY, JUNE 25

8:30 AM-12 NOON

UNIV. MAIN BLDG., A3

- T1: Web Course Design and Implementation from Idea to Completion
Leon Combs, Kennesaw State Univ., USA

UNIV. MAIN BLDG., A4

- T2: Streaming Media 2001 – A Media Odyssey
Tony Klejna, Daemen College, USA

UNIV. MAIN BLDG., Computer Room 4

- W1: A Guide to Online Learning: Principles of Good Educational Design and Its Application Using WebCT
Andrew Burrell and Robyn Philip, Centre for Flexible Learning, Macquarie Univ., Australia

MONDAY, JUNE 25

1:30 AM-5:00 PM

UNIV. MAIN BLDG., A3

- T3: Creating Intuitive Interfaces for Learning
Susan E. Metros, Univ. of Tennessee, USA; John Hedberg, Univ. of Wollongong, Australia

UNIV. MAIN BLDG., A4

- T4: Designing Instruction for Online Learning and Teaching
Som Naidu, Univ. of Melbourne, Australia

UNIV. MAIN BLDG., A2A

- T12: Designing an Upper-Level Course in Interactive Multimedia
Rachelle Heller, George Washington Univ., USA

UNIV. MAIN BLDG., Computer Room 4

- W2: Computer-Assisted Assessment: Developing Skills in Both Qualitative and Quantitative Assessment Online
Catherine McLoughlin, Univ. of New England, Australia; Joe Luca, Edith Cowan Univ., Perth Australia

TUESDAY, JUNE 26

8:30 AM-12 NOON

UNIV. MAIN BLDG., A2A

- T5: International Masters Showcase: Corporate Training
Rod Sims, Michael Spector & Ileana de la Teja, Deakin Univ., Australia

UNIV. MAIN BLDG., A1

- T6: Teaching on the Web II: With a Little More Help from My Pedagogical Friends, Part I
Curtis J. Bonk, Indiana Univ., and CourseShare.com, USA; Vanessa Paz Dennen, San Diego State Univ., USA

UNIV. MAIN BLDG., A2B

- T7: Evaluating Interactive Learning, Part I
Thomas Reeves, Univ. of Georgia, USA; John Hedberg, Univ. of Wollongong, Australia; Mary Marlino, Program for the Advancement of Geosciences, USA

UNIV. MAIN BLDG., Computer Room 4

- W3: Creating Rich, Interactive 3D e-Learning and e-Training Web Applications
Dan Meblin, Senior Technology Evangelist, Pulse Entertainment; 3D modeling instructor, Center For Electronic Art, & San Francisco State Multimedia Studies Program, USA

TUESDAY, JUNE 26

1:30 AM-5:00 PM

UNIV. MAIN BLDG., A2A

- T8: International Masters Showcase: Education
Rod Sims, Michael Spector & Ileana de la Teja, Deakin Univ., Australia

UNIV. MAIN BLDG., A1

- T9: Teaching on the Web II: With a Little More Help from My Pedagogical Friends, Part II
Curtis J. Bonk, Indiana Univ., & CourseShare.com, USA; Vanessa Paz Dennen, San Diego State Univ., USA

UNIV. MAIN BLDG., A2B

- T10: Evaluating Interactive Learning, Part II
Thomas Reeves, The Univ. of Georgia, USA; John Hedberg, Univ. of Wollongong, Australia; Mary Marlino, Program for the Advancement of Geosciences, USA

UNIV. MAIN BLDG., Computer Room 4

- T11 Adaptive Hypermedia and Its Implementation on the World Wide Web
Peter Brusilovsky, Univ. of Pittsburgh, USA

IMPORTANT Conference Information

▶ For admission to conference activities, you must wear your badge

✉ **E-mail stations:** Located in University Main Building, Computer Room 10 (see map on page 31). There also are computers available in the University Main Entrance Level. See bulletin board in registration area for hours available.

▶ **Presenter's Index:** page 24, to help you locate specific sessions

▶ **SIG:** Remember to Sign Up for Special Interest Group (SIG) Discussions before Wednesday, Noon. See bulletin board in Registration Area.

▶ **Notice:** Employment Networking bulletin boards are available for posting new position announcements and resumes. If you have a job position available or are seeking employment, a 1-page job position announcement or resume may be posted on the conference Employment Networking bulletin board.



Welcome Reception & Get-Together Party

(hosted by the City of Tampere)

7:00-8:30 PM

The Welcome Reception will be held
in the Vapriikki Museum.

Bus transportation to the museum will begin leaving from
the front of Tampere Hall at 6:00 PM.
(Please note that smoking is not permitted in the Museum.)

SPECIAL THANKS TO: All ED-MEDIA 2001 Program and Local Committee members particularly the Program Chairs: Craig Montgomerie (Univ. of Alberta) and Jarmo Viteli (Univ. of Tampere); Carolina Pajula and her Tampere planning team; Jerry Price (Univ. of Houston), David Drucker (Univ. of Virginia) and their technical support staff; the University of Tampere and its Hypermedia Lab, and the conference sponsors. We would also like to thank all other volunteers for their help.

Concurrent Sessions – Wednesday, June 27

Concurrent sessions include the following: Invited Speakers (1 hr.); Panels (1 hr.); Full Papers (25 min.)/two per hour; Brief Papers (15 min.)/three per hour; Interactive Sessions (1 hr.); and Corporate Showcases (1 hr.).

To better enable you to make maximum use of your time, all papers are categorized by topic and sub-topic. Mix and match the session topics to receive the information most beneficial to you.

Interactive Sessions: These hands-on presentations will be held in Computer Room 4. Seating is limited to 24.

WEDNESDAY, JUNE 27

8:15-8:30 AM

TAMPERE HALL MAIN AUDITORIUM

Welcome & Opening

Jorma Sipilä
Rector of Univ. of Tampere, Finland

8:30-9:30 AM

TAMPERE HALL MAIN AUDITORIUM

Keynote

**E-Learning and M-Learning in the Corporate Sector;
Need for New Concepts and a New Mindset for Learning, Training and
Competence Development**

Juha Lipiäinen, Director
System & Application Development in Broadband Systems Unit in Nokia
Networks, Nokia, Finland

Beverage Break: 9:30-10:00 AM

REMINDER: SIG Discussions are 5-6 PM today. By 12 noon today, be sure to create a topic for a SIG or sign up for an existing discussion group at the Bulletin Board, Registration Desk. These discussions are excellent opportunities to explore topics informally with colleagues.

10:00-11:00 AM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

E-Learning: Instructional Design Considerations

Barbara Grabowski, Instructional Systems Program, Pennsylvania State Univ., USA

PINNI BLDG., PAAVO KOLI/Full: CES

HCI Understanding Cross-Cultural Meanings in Online Web Displays
Ian Brown, and John Hedberg, Univ. of Wollongong, Australia

HCI Childrens' Multimedia Nutrition Simulation Software
D. Michael Anderson, Health Media Lab, Inc., USA; Mark Kantor, Univ. of Maryland, USA

UNIV. MAIN BLDG., D11/Full: Cases

Learn Quiz collaboration - cheating or a learning opportunity?
Robert Lundquist, Lulea Univ. of Technology, Sweden

Learn Six WWW Based Learner Supports you can Build
Koos Winnips, Univ. of Enschede, The Netherlands; Catherine Mcloughlin, Univ. of New England, Australia

UNIV. MAIN BLDG., TYT Auditorium/Full: Cases

Learn Flexibility, efficiency and enrichment in WWW-based learning environments?
Wim De Boer, Univ. of Twente, The Netherlands

Learn Is it possible to teach music in a classroom from a distance of 1000 km?
Learning environment of music education using ISDN-videoconference
Jukka Maki, Univ. of Oulu, Finland

TAMPERE HALL, STUDIO/Full: CES

Infra Give it a go! - Using interactive digital television to help passive viewers become active learners
Matthew Love, Sheffield Hallam Univ., England

Infra eLearning, teaching and training: A first look at principles, issues and implications
Malcolm Ryan and Lynda Hall, Univ. of Greenwich, UK

PRESENTATION TOPICS

Full Papers Major Topics:

Cases	Case Studies
CES	Conceptual & Empirical Studies
Other	Other
SysRes	Systems & Resources

Brief Papers Major Topics:

Demo	Demonstration
NewDev	New Developments
Other	Other
ProjOpp	Project Opportunities

Full & Brief Paper Sub-Topics:

Cases	Cases & Projects
HCI	Human-Computer Interaction (HCI/CHI)
Infra	Infrastructure
Learn	New Roles of the Instructor & Learner
Tools	Tools & Content-Oriented Applications

Outstanding Papers = 

UNIV. MAIN BLDG., D10 B/Full: Cases

Cases Distance Training as part of a Distance Consulting solution
Giovanni Fulantelli, Giuseppe Chiazese, and Mario Allegra, Italian National Research Council, Italy

Cases Flexible Audit Trailing in Interactive Courseware
Gregor Kennedy and Terry Judd, Univ. of Melbourne, Australia

PINNI BLDG., 0081/Full: Cases

Cases A Small History of A Communication Board for Collaborative Learning Among Distant Elementary Classes
Haruo Kurokami, Kanazawa Univ., Japan; Tatsuya Horita, Shizuoka Univ., Japan; Yuhei Yamauchi, Ibaraki Univ., Japan; Tadashi Inagaki, Kansai Univ., Japan; Takashi Minowa, NHK, Japan

Cases A Virtual Study Visit of the World's First Trigenation Power Plant
Hai Yu and Per Almqvist, Royal Inst. of Technology, Sweden; Johan Alspar, Birka Energi AB, Sweden

UNIV. MAIN BLDG., D16/Full: Cases

Cases Participant Interaction Models and Roles in a CSCL Environment: A Malaysian Case Study
Esther Daniel, Faculty of Education, Univ. of Malaya, Malaysia

Cases Web-based strategies for improving undergraduate commitment to learning
Malcolm Andrew, De Montfort Univ., England

UNIV. MAIN BLDG., D17/Full: Cases

Tools Teaching OOT Using a Framework and both Direct and Net-based Tutoring
Birgit Demuth and Heinrich Hussmann, Dresden Univ. of Technology, Germany; Lothar Schmitz, Univ. of the Federal Armed Forces Munich, Germany; Steffen Zschaler, Dresden Univ. of Technology, Germany

Tools The Solver Learning Environment and Anchored Instruction on Mathematical Word Problem-Solving
Heli Ruokamo, Univ. of Lapland, Finland

UNIV. MAIN BLDG., A1/Full: Cases

Tools The Design and Implementation of a Web-based Distance Learning System: Problems and Issues
Miwha Lee, Pusan National Univ. of Education, South Korea

Tools The Interactive LoD - Pedagogically Driven eLearning
Chris Cheers, T. Elangovan, and Ivo Widjaja, NgeeAnn Polytechnic, Singapore

UNIV. MAIN BLDG., A3/Full: CES

Tools Fostering Mental-Model Thinking During Design
Alyse Hachey, Lisa Tsuei, and John Black, Teachers College, Columbia Univ., USA

Infra The necessity of considering cultural influences in online collaborative learning
Ruth Geer, Univ. of South Australia, Australia

Concurrent Sessions – Wednesday, June 27

UNIV. MAIN BLDG., A4/Full: CES

Tools Computer-based cognitive tools: Description and design
David Kennedy, Monash Univ., Australia; Carmel McNaught, RMIT Univ., Australia

Tools Development of Componentware-Based Software for Learning English as a Foreign Language

Ryoji Matsuno and Richard Gilbert, Prefectural Univ. of Kumamoto, Japan; Yutaka Tsutsumi, Kumamoto Gakuen Univ., Japan; Kazuo Ushijima, Kyusyu Univ., Japan

PINNI BLDG., 0078/Full: Cases

Cases Learning of key scientific concepts in a web-based on-campus collaborative learning environment.

Robert Kemm, Neil Williams, Helen Kavnoudias, Paul Fritze, and Nick Stone, The Univ. of Melbourne, Australia

Learn Use of videoconferencing with computer-supported co-operative work (CSCW)

Sissel Guttormsen Schär, Swiss Federal Inst. of Technology, Switzerland; Peter J. Haubner, Univ. of Karlsruhe, Germany; Helmut Krueger, Swiss Federal Inst. of Technology, Switzerland

UNIV. MAIN BLDG., Computer Room 4/Interactive Session

The Integrated Electronic Course Portfolio (IECP)

Yitna Firdiyewek, Univ. of Virginia, USA

11:15 AM-12:15 PM

UNIV. MAIN BLDG., D10 A/Panel (1 hour)

Those who cannot remember the past are condemned to repeat it.

Craig Montgomerie, Michael Szabo, Eugene Romaniuk, and David Mappin, Univ. of Alberta, Canada

PINNI BLDG., PAAVO KOLI/Brief: Demo

Tools Enhancing Teacher Preparation Using Free WWW-based Tools
Virginia Resta, Southwest Texas State Univ., USA;

Learn Meeting Teacher Technology Competencies in the Classroom with a Focus on Writing/Communication Skills

Martha Beasley, Lees-McRae College, USA

Learn Teaching Scientific Thinking Skills: Students and Computers Coaching Each Other

Lisa A. Scott and Frederick Reif, Carnegie Mellon Univ., USA

UNIV. MAIN BLDG., D11/Brief: NewDev

Infra A PDA-based classroom computer system

Adolfo Riera, Jose Vila, and Senén Barro, Univ. de Santiago de Compostela, Spain

Learn Collaborative learning environments: Integrating informal learning experiences in the home with learning at school

Helen Brown, BECTa, England

Infra The Faculty Development Center as a Means of Cultivation of Needed Skills in Interface Design, Multimedia and Hypermedia

Andrei Strukov, The Univ. of Maine, USA

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev

Learn A Constructivist Teacher Training Model to Design Educational Activities Based on ICT

Simona Ottaviano, Antonella Chifari, and Allegra Mario, Italian National Research Council, Italy

Learn Problem solving strategies - Is there a better way?

Gwyn Brickell, John Hedberg, Brian Ferry, and Barry Harper, Univ. of Wollongong, Australia

Learn The Development of Pedagogy for TeleLearning in Knowledge-Building Communities

Ken Stevens, Memorial Univ. of Newfoundland, Canada

TAMPERE HALL, STUDIO/Full: CES

Tools Design Principles of an Open Agent Architecture for Web-based Learning Community

Jianhua Ma and Runhe Huang, Hosei Univ., Japan; Timothy Shih, Tamkang Univ., Taiwan

Learn Teacher Survival in a Web-based Constructivist Learning Environment - The Malaysian Experience

Abtar Kaur and Kuldip Kaur, Univ. of Malaya, Malaysia

UNIV. MAIN BLDG., D10 B/Brief: Demo

Learn Evolution of a Student Model Building Program Designed to Assist Understanding of Biological Control Systems

Debbi Weaver, Robert E. Kemm, Petrovic T., Gilding T., and Harris Peter, The Univ. of Melbourne, Australia

Learn Hypermedia and Education: A Technology Integration Course

Chrystalla Mouza and Shiao-Chuan Kung, Teachers College, Columbia Univ., USA

Learn Technology support for the faculty

Burcu Tunca and Kemal Cakici, The George Washington Univ., USA

PINNI BLDG., 0081/Brief: Demo

Cases Camp Internet - A case study of an effective Classroom online curriculum and Teacher Training program

Timothy Tyndall, Camp Internet/RAIN Network, USA;

Cases TEOREMA (Teaching Online pProject for Economic Mathematics)

Gianpiero Limongiello, CILEA, Italy; Silvana Stefani, Univ. of Milano-Bicocca, Italy; Anna Torriero, Univ. of Brescia, Italy

Tools Web-based Collaborative Architectural Design System : C@D

Myunghee Kang, Ewha Womans Univ., Korea; Uk Kim, Hongik Univ., Korea

UNIV. MAIN BLDG., D16/Brief: Demo

Cases Movie-Based Media in Teaching Business English

Tatiana Slobodina, Northern International Univ., Russia

Cases Technology Opportunity Centers: Closing Digital Divide

Tatiana Solovieva, West Virginia Univ., USA

Cases The Internet Shared Laboratory Project

Andrea Bagnasco, Marco Chirico, and Anna Marina Scapolla, Univ. of Genova, Italy

UNIV. MAIN BLDG., D17/Brief: Demo

HCI CD-Drives: The development of the user interface for an educational CD-ROM

Michael O'Dea, Waikato Polytechnic, New Zealand

Tools Developing Multimedia CD Product Using an Authoring Software

Kimberly Jackson, Gary Smith, and Sally O'Connor, Xavier Univ. of Louisiana, USA

HCI From Jupiter to Jerusalem: Harnessing Virtual Reality and Visualization Technologies to Teaching Planetary Sciences

Yoav Yair, The Open Univ. of Israel, Israel; Rachel Mintz, Tel-Aviv Univ., Israel

UNIV. MAIN BLDG., A1/Full: CES

HCI E-Learning has to be seen as part of general Knowledge Management
Hermann Maurer, Technical Univ. of Graz, Austria; Marianne Sapper, Surfmud, Austria

Learn Preliminary Evaluation on a Web-mediated School for All

Shelley Shwu-ching Young, Natinal Tsing Hua Univ., Taiwan; Tak-wai Chan and Chuo-Bin Lin, Natinal Central Univ., Taiwan

UNIV. MAIN BLDG., A3/Brief: Demo

Tools "A CALL-programs family": Vous dites?! ** ALFAGRAM ** IDIOMA-TIC
Bert Wylin, K.U.Leuven Campus Kortrijk, Belgium

Tools A Framework based Approach for Intelligent Multimedia in Education

Dr Kishuk and Hong Hong, Massey Univ., New Zealand; Ashok Patel, De Montfort Univ., UK; Chris Jesshope, Massey Univ., New Zealand

Tools Shadow netWorkspace

Dale Musser and James Laffey, Univ. of Missouri, USA

UNIV. MAIN BLDG., A4/Brief: Demo

Tools Programming-free Web-based Automatic Online Drill/Quiz Creator

Etsuo Kobayashi, College of Community and Human Services, Rikkyo Univ., Japan; Shinobu Nagashima, Rikkyo Univ., Japan; Mitsuki Hayase, Mie Univ., Japan

Tools Virtual Virtual Reality Simulations in Physics Education

Jong-Heon Kim, Heebok Lee, and Keun-Cheol Yuk, Kongju National Univ., South Korea; Heeman Lee, Seowon Univ., South Korea

Learn The educational uses of computers by mathematics teachers in Zimbabwe

Tonderai Maswera, Bindura Univ. of Science Education, Zimbabwe; Chipso Tsvigu, Zimbabwe Open Univ., Zimbabwe

PINNI BLDG., 0078/Brief: Demo

Learn E-Learning: Challenges and Inhibitors

Hans Boon, Univ. of Pretoria, South Africa

Cases Generating Creative Vital Orientations in Cyberspace

Agata Cudowska, Univ. of Bialystok, Poland

Cases MAMBO - Experiences from developing, implementing and evaluating a multimedia enhanced distant education learning system

Tobias Hofmann and Thore Schmidt-Tjarksen, Bauhaus Univ. Weimar, Germany

Concurrent Sessions – Wednesday, June 27

Lunch Break: 12:15-1:30 pm

1:30-2:30 PM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

Learning Repositories - Technology and Context
Wolfgang Nejdl, Univ. of Hannover, Germany

TAMPERE HALL, STUDIO/Corporate Showcase (1 hour)

Object Oriented Approach - Experience Contextuality and Collaboration in a Learning Environment
Eric Rousselle, Development Manager, New Communications Services, Sonera Corp., Finland

PINNI BLDG., PAAVO KOLI/Full: CES

Infra Standardized Metadata for Education: A Status Report
Erik Duval, Katholieke Univ. Leuven, Belgium

Infra Expanding e-Learning effectiveness: The shift from content orientation to knowledge management utilization
Miltiadis Lytras, Georgios Doukidis, and Theodora Skagkou, Athens Univ. of Economics and Business, Greece

UNIV. MAIN BLDG., D11/Full: Cases

Learn Online Curriculum Projects: Facilitating Collaborative Leadership Opportunities
Ann Trewern, Univ. of Otago, New Zealand

Learn Supporting beginning teachers: A web-based collegial enterprise
Anthony Herrington, Jan Herrington, and Arshad Omari, Edith Cowan Univ., Australia

UNIV. MAIN BLDG., TYT Auditorium/Full: CES

Learn Integrated Pedagogical Profile and the Design of Web-based Learning Environments
Sami Hautakangas and Pekka Ranta, Tampere Univ. of Technology, Finland

Learn Online assessment criteria in action: Task design in contrasting tertiary education contexts
Amanda Kendle, Univ. of Western Australia, Australia; Maria Northcote, Edith Cowan Univ., Australia

UNIV. MAIN BLDG., D10 B/Full: Cases

Cases An educational evaluation of WebCT: A case study using the conversational framework
Dawn Carmichael, Univ. of Abertay Dundee, Scotland

Cases Supporting Students' Learning with the Personal Learning Planner
Gregor Kennedy, Tom Petrovic, Terry Judd, Jeanette Lawrence, and Peter Harris, Univ. of Melbourne, Australia

PINNI BLDG., 0081/Full: Cases

Cases How to implement multimedia metaphors within museum materials
Jason Taylor, Jane Wood, and Simon Robertshaw, International Centre for Digital Content, UK

Cases Royal Roads University: The Development of CEDARlearning
Roger Mundell, Eric West, Denise Stockley, Jeanette Muzio, and Maureen Hughes, Royal Roads Univ., Canada

UNIV. MAIN BLDG., D16/Full: Cases

Cases Energy-education through the Web with interactive comics
Katja Pesonen, TUT/DMI/Hypermedia Laboratory, Finland

Cases Evaluation of Asynchronous Web-assisted Instruction: A Case Study of NTU WAI Project
Hsiu-Ping Yueh and Chih-Yin Hsiao, National Taiwan Univ., Taiwan, R.O.C.

UNIV. MAIN BLDG., D17/Full: CES

Tools Flexible Delivery Damaging to Learning? Lessons from the Canterbury Digital Lectures Project
Bell Tim, Andy Cockburn, Bruce McKenzie, and John Vargo, Univ. of Canterbury, New Zealand

Tools Text and Interactive Panoramic Imagery: Psychological Findings that Affect their Use in Education and Training
John Black, Teachers College, Columbia Univ., USA

UNIV. MAIN BLDG., A1/Full: CES

Tools Planning for E-Course Success
Leon Combs, Kennesaw State Univ., USA

Tools Informal Interaction in Online Teaching and Learning
Juan José Contreras Castillo, Univ. de Colima, Mexico; Carmen Pérez Frago, Univ. Autónoma de Baja California, Mexico; Jesús Favela Vara, Centro de Investigación Científica y Educación Superior de Ensenada, Mexico

UNIV. MAIN BLDG., A3/Full: SysRes

Learn A Collaborative Learning Support Based on Inference Mechanism of Group Actions and Reactions
Tomoko Kojiri and Toyohide Watanabe, Nagoya Univ., Japan

Learn Teaching Cognitively Complex Concepts: Content Representation for AudioGraph Lectures
Eva Heinrich, Chris Jesshope, and Nic Walker, Massey Univ., New Zealand

UNIV. MAIN BLDG., A4/Full: CES

Tools Discover Sequential Patterns of Learning Concepts for Behavioral Diagnosis by Interpreting Web Page Contents
Chih-Kai Chang, Da-Yeh Univ., R.O.C.; Kuen-Shan Wang, R.O.C.

Tools Metacognitive development in a web-based collaborative environment
Christopher Andersen, Ohio State Univ. & NASA Classroom of the Future, USA

PINNI BLDG., 0078/Full: Cases

Learn Improving assessment: Rubrics in a tertiary multimedia course
Barney Clarkson and Joe Luca, Edith Cowan Univ., Australia

Learn Power Struggles around Integrated Learning Environments: A comparative case study
Debbie Holley and Martin Oliver, Univ. College London, England

Beverage Break: 2:30-2:45 pm

2:45-3:45 PM

UNIV. MAIN BLDG., D10 A/Panel (1 hour)

Is the future of eLearning in mobile devices?
Jari Multisilta, Pori School of Technology and Economics, Finland

TAMPERE HALL, STUDIO/Full: CES

HCI Considerations of Spatial Ability in Learning from Animation
Lih-Juan ChanLin, Fu-Jen Catholic Univ., Taiwan

HCI Multisensory Virtual Environment for Supporting Blind Persons' Acquisition of Spatial Cognitive Mapping - a Case Study
Orly Lahav and David Mioduser, Tel-Aviv Univ., School of Education, Israel

PINNI BLDG., PAAVO KOLI/Brief: NewDev

Cases An Economic Analysis of Technology Enhancements to a Large Lecture Course, Preliminary Report
Diane Harley, Univ. of California, Berkeley, USA

Cases Enhancing student access to the University: The integration of online and course-based material for the visually impaired.
Ray Archee and Monica Whitty, Univ. of Western Sydney, Australia

Cases Teaching How to Think in Cyberspace
Rosalba Gamez and Hector Schwabe, Univ. Autonomametropolitana, Mexico

UNIV. MAIN BLDG., D11/Brief: NewDev

Learn New Strand of Media Technology in Architects: Forming Curriculum and Career
James T.J. Wang, National Taipei Univ. of Technology, Taiwan

Learn Some Educational Approaches Using Multimedia Technologies
Nicoletta Sala, Univ. of Italian Switzerland, Switzerland

Learn The Rhetoric and Reality of Change
Michael Cunningham, Beverly Farrow, and Teresa Eagle, Marshall Univ., USA

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev

Cases Improvement of University Classes Introducing Topics-based Discussion Using the Web Bulletin Board
Kanji Akahori, Tokyo Inst. of Technology, Japan

Learn The Effects of CALL on Teaching English as a Foreign Language
Isabel Hernandez, Univ. de Quintana Roo, Mexico

Learn Novice Professionals, not Senior Students: Learning to take part in professional practice
David Walker, McMaster Univ., Canada

Concurrent Sessions – Wednesday, June 27

UNIV. MAIN BLDG., D10 B/Brief: NewDev

- Learn** Reflections on the Use of an Integrated Computer-based Collaborative Learning Program in a Curriculum Design Course for Science Teachers
James P. Barufaldi and Victor A. Zinger, The Univ. of Texas-Austin, USA
- HCI** Inspiration and drawing
Robin Shaw, London Inst., UK
- HCI** Learning on the Move: Vocabulary study via Email and Mobile Phone SMS
Patricia Thornton and Chris Houser, Kinjo Gakuin Univ., Japan

PINNI BLDG., 0081/Brief: NewDev

- Cases** A Multimedia Business Simulation Game: Making Decisions That Count
David M Kennedy, Kim Styles and Wendy Doube, Monash Univ., Australia
- Learn** For the fear of being wrong: Group dynamics in cyberspace
Mike Davis, Univ. of North London, England; Sue Ralph, Univ. of Manchester, England
- Cases** Preliminary Results of a Pilot Project Internet Based Subject Registration System
Norhayati Ahmad, Wahidah Mansor, and Nor'aini Abd Jalil, Univ. Teknologi Mara, Malaysia

UNIV. MAIN BLDG., D16/Brief: NewDev

- Cases** Limitations of Course Delivery by Streaming Media
Maria Victoria Perez Cereijo and Mark Mortensen, Univ. of North Texas, USA
- Cases** Students' Use of the Internet as a Help to Write Essays
Burkhard Priemer and Lutz-Helmut Schoen, Humboldt-Univ. Berlin, Germany
- Cases** The Digital Backpack: Issues in the Development and Implementation of a Digital Portfolio
Carl Hoagland and Eric Aplyn, Univ. of Missouri-St. Louis, USA; Mark Rice, XEROX, USA

UNIV. MAIN BLDG., D17/Brief: NewDev

- Cases** Creating an interactive, multimedia database for supplementing microscopic image analysis: Example of Optical Mineralogy and potential applications in other disciplines
Parvinder Sethi, William Smith, Mitch Bupp, John Simmons, and Timothy Rigney, Radford Univ., USA
- Cases** The Unwired Classroom - Innovative Technologies in Computing Education
Stephen Skelton, UNITEC, New Zealand
- Cases** Support service to distance students: The implementation process in one Brazilian distance education institution
Marialice Moraes, and Barcia Ricardo Miranda, Distance Education Laboratory - LED, Brazil

UNIV. MAIN BLDG., A1/Brief: Demo

- Tools** Framework for Medical Case Teaching
Manfred Gengler and Oliver Findl, Univ. of Vienna, Austria
- Tools** TOETS: Development of a computer assisted assessment system
Eddy Demeersseman, Bert Wylm, and Jos Panen, KULAK, Belgium
- Tools** Tools To Create Time and Place-Independent Modules
Scott Beckstrand, Community College of Southern Nevada, USA

UNIV. MAIN BLDG., A3/Brief: NewDev

- Tools** A student model for web-based intelligent educational system
Binglan Han and Dr Kinshuk, Massey Univ., New Zealand; Ashok Patel, De Montfort Univ., UK
- Tools** Implementation of an Adaptive Questionnaire
Petri Nokelainen, Markku Niemivirta, Henry Tirri, Miikka Miettinen, and Jaakko Kurhila, Univ. of Helsinki, Finland
- Tools** Robots of Architectural Skeleton
James T.J. Wang, National Taipei Univ. of Technology, Canada

UNIV. MAIN BLDG., A4/Brief: NewDev

- Tools** Interactive multimedia web-based testing tool
Kazys Baniulis, Vytautas Reklaitis, and Emilis Stuopys, Kaunas Univ. of Technology, Lithuania
- Learn** Quality Web Course Construction -Learning by Reviewing
Leslie E. Cummings, Univ. of Houston-Clear Lake, USA
- Tools** Web-based Knowledge Construction System: REAL (Rich Environment for Active Learning)
Myunghee Kang, Ewha Womans Univ., Korea

PINNI BLDG., 0078/Brief: NewDev

- Infra** A Design Procedure for Creating Training Courses
Christina Metaxaki-Kossionides, Univ. of Thrace, Greece; Dionysios Xenos, EYDAP, Greece; Nikolaos Giannopoulos, BRS, Greece
- Infra** AulaWeb: a WWW-based course-support system with self-assessment and student tracking
Raquel Martinez and Angel Garcia Beltran, Univ. Politecnica de Madrid, Spain
- Infra** Building comic strips in a cooperative way: An interdisciplinary experience
Elisa Boff and Lucia Giraffa, PUCRS, Brazil

4:00-5:00 PM

UNIV. MAIN BLDG., D10 A/Full: SysRes

- HCI** Using Web-based Instruction to Develop Language Skills in Turkish
Mine Basal and Gulsun Kurubacak, Anadolu Univ., Turkey
- Learn** Who Uses the Internet for Educational Purposes? A National Demographic Study in the USA
Xiaoli Cao and Kenneth Gray, Penn State Univ., USA

PINNI BLDG., PAAVO KOLI/Full: CES

- Learn** Conceptions, Tensions & Theories of Action for Embedding Learning Technologies in Higher Education
Michael Dobson, Lancaster Univ., UK
- Learn** The Application of Self-Organised Learning for Educators and Students
Vivien Lee, Temasek Polytechnic, Singapore
- UNIV. MAIN BLDG., D11/Full: CES**
- Learn** Cognitive learning analysis for strategic educational media development planning
Juhani Tuovinen, Monash Univ., Australia
- Learn** Developing a model for technology based learning; a practitioner response to a constructivist model
Jane Sisk, South Birmingham College, UK

UNIV. MAIN BLDG., TYT Auditorium/Full: CES

- HCI** Designing a Pedagogically Sound Web-based Interface: The Critical Role of Prior Knowledge
Thanasis Giouvanakis, Haido Samaras, and Konstantinos Tarabanis, Univ. of Macedonia, Greece
- HCI** On paper or hypermedia? an empirical study on the effect of procedural information in digital video format in the learning of a computer program by novice users
Jesus Tejada, Univ. de La Rioja, Spain

TAMPERE HALL, STUDIO/Full: CES

- Infra** A Reference Model for Media-Supported Higher Education MBA on NetAcademy
Peter Mayr, Julia Gerhard, and Sabine Seufert, Univ. of St. Gallen, Switzerland
- Learn** MeduLearning: On the balance between 'profile learning' and 'learning your profile'
Steven Utsi and Joost Lowyck, Catholic Univ. of Leuven, Belgium; Willem Broere and Louis Peeters, Algemeen Pedagogisch Studiecentrum, The Netherlands

UNIV. MAIN BLDG., D10 B/Full: Cases

- Cases** Teachers' first encounter with computers: socio-cultural and linguistic role-players at the interface
Duan vander Westhuizen and Elizabeth Henning, Rand Afrikaans Univ., South Africa
- Cases** The Virtual Print Exhibition: A Case of Learning by Designing
Som Naidu, Jaynie Anderson, and Mathew Riddle, The Univ. of Melbourne, Australia

PINNI BLDG., 0081/Full: CES

- Tools** Closed-loop Adaptive Education
James McCarthy, John Wayne, and John Morris, Sonalysts, USA
- Infra** Course Material Model in A&O Learning Environment
Jarkko Levasma and Ossi Nykänen, Tampere Univ. of Technology, Finland

UNIV. MAIN BLDG., D16/Full: Cases

- Cases** A Rich Learning Environment is yet to come: An Action Evaluation on a National eLearning Project for Elementary Education in Taiwan
Hueching J. Jih, Tamkang Univ., Taiwan

Concurrent Sessions

Cases **Constructivist Instructional Design and Development of a Networked Learning Skills (NICLS) Module for Continuing Professional Distance Education**
Miguel Baptista Nunes, Maggie McPherson, and Mariano Rico, Univ. of Sheffield, UK

UNIV. MAIN BLDG., D17/Full: CES

Tools **Infusing Interactive, Multimedia CD-ROM Technology into the First-Year College-level Geology Curriculum: Recent Examples from Radford University, United States**
Parvinder Sethi and Phyllis Newbill, Radford Univ., USA

Infra **Build it, but they may not come: Designing, maintaining and assessing a successful university-level, instructional-technology multimedia center**
Parvinder Sethi and Phil Lewis, Radford Univ., USA

UNIV. MAIN BLDG., A1/Full: Other

Tools **Design and Evaluation of a Virtual Cartography Lab**
Amy Lobben, Central Michigan Univ., USA; Paul Delamater, Central Michigan Univ., USA

Infra **Development of a Japanese Reading Support System based on Activating Visual Information**
Yukari Kato and Toshio Okamoto, The Univ. of Electro-Communications, Japan

UNIV. MAIN BLDG., A3/Full: Other

Tools **An Interactive System for Teaching Electronics**
Julio Gonzalez, Laurence Reitman, and Tony Stagno, SUNY New Paltz, USA; Enrique Mandado, The Univ. of Vigo, Spain; Angel Salaverría, The Univ. of País Vasco, Spain, Spain

Tools **From Course Management To Open Learning**
Sybille Hambach, Fraunhofer Inst. for Computer Graphics RA 1, Germany; Bodo Urban, Mario Aehnelt, and Jörn Wallstabe, Inst. for Computer Graphics RA 1, Germany

UNIV. MAIN BLDG., A4/Full: Other

Tools **Analysis of Navigation in a Problem-based Learning Environment**
Doug Williams, Univ. of Louisiana at Lafayette, USA; Liu Min, Univ. of Texas at Austin, USA; Denise Benton, Univ. of Louisiana at Lafayette, USA

Tools **Quo vadis, School: Looking Back and Ahead or: How Can Schools Be Supported by Meaningful Online Services?**
Michael Drabe, Schulen ans Netz e.V., Germany

PINNI BLDG., 0078/Full: Cases

Learn **Situated and Socially Shared Cognition in Practice. Designing a Collaborative Network Learning Experience for Adult Learners**
Vesa Korhonen, Univ. of Tampere, Finland

Learn **Technology Impact on Roles of Instructor and Students - Case Studies**
Amy S. C. Leh, California State Univ. San Bernardino, USA

UNIV. MAIN BLDG., Computer Room 4/Interactive Session

Web Tools for Collaborative Project Learning
Hannu Markkanen, Espoo-Vantaa Inst. of Technology, Finland; Domenico Ponta, DIBE-Univ. of Genova, Italy

5:00-6:00 PM

SIG DISCUSSIONS

See Bulletin Board at Registration Desk for sign-up and meeting rooms. Remember to sign up for SIG Discussions before Wednesday noon.

Wednesday, June 27 • Poster/Demonstrations

6-8 PM • Tampere Hall, Exhibition Hall, 1st Floor

- Tools for Authoring and Delivering Adaptive Instruction**
James McCarthy, John Wayne, and John Morris, Sonalysts, Inc., USA
- R5 Vision**
Petri Kajander, R5 Vision Oy, Finland
- School community**
Herre Rost van Tonningen, NIAM-TMS, Netherlands
- New Advanced Virtual Learning Environment**
Matti Vitikainen, Edusolutions Oy, Finland
- Universitat Oberta de Catalunya**
Francesc Vallverdu, Univ. Oberta de Catalunya, Spain
- The Impact of Epistemological Beliefs on Middle School Students' Knowledge Acquisition and Problem Solving While Working in a Hypermedia-Supported Problem-based Learning Environment (HALE)**
Doug Williams, Univ. of Louisiana at Lafayette, USA
- Workload, Advantages, & Disadvantages of a Newly Developed Online Course**
Susan Lyman, Doug Williams, and Lucy Begnaud, Univ. of Louisiana at Lafayette, USA
- "To DIE for!" - Declarative, Interrogative and Experiential Learning of (Geo)Science on the Web**
Patrick James, Univ. of Adelaide, Australia
- A Direct Path to Online Success for both Students and Faculty**
Nancy Omaha Boy, Rutgers Univ., USA
- A Study of How Technology Influences Interior Design of Primary School**
Rong-Jyue Fang, National Kaohsiung Normal Univ., Taiwan; Sun-Der Su, National Ping-Tong Teachers' College, Taiwan; Hung-Jen Yang, National Kaohsiung Normal Univ., Taiwan; Jui-Chen Yu, National Science & Technology Museum, Taiwan; Hung-Ming Jang, National Kaohsiung Normal Univ., Taiwan
- A Study of Teaching Belief of Using Technology in Taiwan Primary School**
Rong-Jyue Fang and Hung-Jen Yang, National Kaohsiung Normal Univ., Taiwan, R.O.C.; Jui-Chen Yu, National Science & Technology Museum, Taiwan, R.O.C.; Sun-Der Su, National Ping-Tong Teachers' College, Taiwan, R.O.C.
- A Web-based Tool for Collaborative Adaptive Instructional Planning**
Albert K W Wu, Chinese Univ. of Hong Kong, China
- A flexible distance teaching project in higher education: Campus Extens**
Jesus Salinas, Barbara de Benito, and Adolfinia Perez, Univ. of Balearic Islands, Spain
- Active Utilization of Bulletin Board for Developing Cross Cultural Communication and Web-based Japanese Education**
Yaeko Nakanishi, Lumi Tatsuta, Masayuki Ohnishi, and Atsuo Iguchi, Dokkyo Univ., Japan; Giichi Tomizawa, Science Univ. of Tokyo, Japan
- Adaptive User Modeling Based on Linguistic Variable of Fuzzy**
Kyungseob Yoon, Inha Technical College, Korea; Seihoon Lee, Inha Technical College, Korea; Changjong Wang, Inha Univ., Korea; Anca Ralescu, Univ. of Cincinnati, USA
- Attitudes of King Saud University Faculty Toward Development and Implication of a Telecommunications-Based Distance Education Program as an Alternative to Conventional Teaching**
Sara ALOraini, King Saud Univ., Saudi Arabia
- Behind the MASK Project**
Helen Carter, Univ. of Wollongong, CEDIR, Australia
- Building Tissues: Computer-based experimentation in plant tissue design**
Glynis Cron, Univ. of the Witwatersrand, South Africa; Tim House, South Africa
- CITDPress Initiative in Scholarly Publishing with New Media: Can Academics play a role?**
William Barek, CITD, Univ. of Toronto at Scarborough, Canada
- Changing the school culture - the role of Internet-based simulation games in Estonian schools**
Mart Laanpere, Tallinn Pedagogical Univ., Estonia; Anne Villems, Univ. of Tartu, Estonia
- ChineseMorning.com**
Myunghye Kang, Comliving.com, Korea
- Computer Based Lab Methods in the Instruction of Probability and Statistics**
Paul Cabilio, Acadia Univ., Canada; Patrick Farrell, Carleton Univ., Canada
(Poster/Demos continued)

23. **Computer-mediated Communication in English Language Study**
Irina Rozina, Rostov State Pedagogical Univ., Russia; Ronald Eckard, Western Kentucky Univ., USA
24. **Design and Implementation of Intelligent Learning Content Advisor Based on BP-Anneal Algorithm**
Ruimin Shen, Qijun Wang, and Jian Sun, Shanghai Jiao Tong Univ., China
25. **Design and Implementation of a Multimedia Learning Environment for Spelling**
Christina Metaxaki, Areti Baxevanidou, Eleni Ioannidou, and Ourania Monouri, Univ. of Thrace, Greece; Georgios Kouroupetroglou, Univ. of Athens, Greece
26. **Designing an Intelligent Math Tutor for At-Risk Students**
Emily O'Connor, AlphaBeta Learning Inst., USA
27. **E-Learning: A New Approach Software Uses Spectroscopic Methods for Assigning Structure of Organic Compounds**
Czarkie Dorota, Gal Chava, Leopold Ahuva, and Epstein Alit, Open Univ. of Israel, Israel
28. **Electronic literacies: Web-Mediated Language learning Project**
Shu Ching Yang, National Sun Yat-sen Univ, ROC
29. **Emerging Literacies: Beyond the Written Word**
Stephanie Barish, Univ. of Southern California, USA
30. **Englishtown: Innovation in online language learning**
Christopher McCormick, Englishtown, USA
31. **Expectations Of Technology For Learning Communities**
Kaisa Still, SOLIDTECH, USA; Martha Russell, Clickin Research, Inc., USA
32. **Factors Predicting Faculty Use of Television & the Internet in Delivering Distance Education**
Jo Ann Coe, Univ. of South Carolina, USA
33. **Genesis of a CD-based Authorware application: Lessons learned from six years of design and development**
Patricia Backer, San Jose State Univ., USA
34. **Hotel Simulation - a 2nd year student project**
Henric Bundy, Robert Johansson, and Bengt Lennartsson, Linköping Univ., Sweden
35. **Improving Conference Design Through Better Use of Technology**
Allan Ellis, Southern Cross Univ., Australia; Roger Debreceny, Nanyang Technological Univ.
36. **Information and Knowledge Society: An interdisciplinary and International PhD Programme through Internet**
Teresa Sancho and Eduard Aibar, UOC, Spain
37. **Interdisciplinary learning process with ISDN-videoconference: "The production of Wine"**
Jukka Maki, The Ziridis Schools, Greece
38. **KnixSOM method for information resource management**
Tomi Suuronen, Harri Airaksinen, and Matti Hämäläinen, Espoo-Vantaa Inst. of Technology, Finland
39. **Launching WBT Service for Librarians**
Tomo'o Inoue and Haruki Ueno, National Inst. of Informatics, Japan
40. **Learner Differences and Authoring Concepts: Non-interactive and Interactive Multimedia/Hypermedia Products**
W. Michael Reed and P. David Tarcy, New York Univ., USA
41. **Learner Led Learning: The case of Business-to-Business Marketing**
Sicco Santema, and Ralph Genang, Delft Univ. of Technology, The Netherlands
42. **Learning from Discussions: Strategies for Listening and Speaking: A computer-based learning environment for English language learners**
Lisa Larson, Teachers College Columbia Univ., USA
43. **Learning with Multimedia Technologies: Some examples**
Nicoletta Sala, Univ. of Italian Switzerland, Switzerland
44. **Lesson Plans on the Internet: A Critical Appraisal**
Robert Hanny, Robert Hannafin, and Ella Donaldson, College of William and Mary, USA
45. **Multimedia Guide to Fractal Geometry in Progress**
Vladimir Shlyk, Belarusian State Pedagogical Univ., Belarus
46. **OMETZ: Virtual Learnig Civil Community**
Booki Kimchi and Irit Lifshitz, Center for Educational Technology(CET), Israel
47. **Perspectives on Web-based Historical Audio**
Dean Rehberger, Michigan State Univ., USA; Jerry Goldman, Northwestern Univ., USA; Steve Cohen, Tufts Univ., USA; Joyce Grant, Michigan State Univ., USA
48. **Student individual differences, reactions, and learning in a molecular biochemistry course using web technology**
Holly Traver and Joyce Diwan, Rensselaer Polytechnic Inst., USA
49. **Systematic Planning for Online Teaching to Support Faculty's New Role**
Rowena Santiago, California State Univ. San Bernardino, USA
50. **The Classroom and Distance Education; Issues of Quality and Equity**
Peter West, Northern Illinois Univ., USA
51. **The Computer-Mediated Professional Discussions in Teacher Settings**
Kati Mäkitalo, Marja Kankaanranta, Päivi Kupila, Pirjo-Liisa Poikonen, and Marja-Kristiina Lerkkanen, Univ. of Jyväskylä, Finland
52. **The Internet: Possibilities of Interaction in the Constructivist Perspective**
Valdemarina Souza and Helena Cortes, PUCRS, Brazil
53. **The Use of Hypermedia and Multimedia in course related projects at the University of Maine, USA**
Andrei Strukov, The University of Maine, USA
54. **The flexible learning model at LITU**
Ethel Dahlgren, Umea Univ., Sweden
55. **Use of Mobile Computers for Teaching and Learning**
Dorene Yeo, Ngee Ann Polytechnic, Rep. Of Singapore
56. **Visual Thinking in Service to Crafting a Teacher**
Olga Kritskaya, Michigan State Univ., USA
57. **Web Usability Criteria: The SCANMIC Model**
Shahizan Hassan and Feng Li, Univ. of Strathclyde, Scotland
58. **Webering a Brazilian University: A successful case of change**
Pericles Gomes and Sonia Vermelho, Pontifical Univ. Catolica do Parana, Brazil
59. **Working towards a Virtual University**
Marialice Moraes, Leslie Paas, Dulce Márcia Cruz, and Ricardo Miranda Barcia, Federal Univ. of Santa Catarina - UFSC, Brazil
60. **ePolytechnic - eHAMK**
Kaisa Rissanen, Leena Vainio, Jusri de Vries, Pertti Puusaari, and Jorma Saarinen, Hame Polytechnic, Finland

Concurrent Sessions – Thursday, June 28

THURSDAY, JUNE 28

8:30-9:30 AM

TAMPERE HALL MAIN AUDITORIUM

Keynote & Awards

E-Learning to Solve Problems

David Jonassen, University of Missouri, USA

Special best paper award donated by:

Hannu O. Nieminen, Head of Laboratory, Nokia Research Center, Finland

Beverage Break: 9:30-10:00 AM

10:00-11:00 AM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

E-Learning and the Professorate: The Issue of Productivity

Thomas C. Reeves, The Univ. of Georgia, USA

TAMPERE HALL, STUDIO/Corporate Showcase (1 hour)

IBM's m-Learning Strategy and Demonstration

Chris T. von Koschembahr, European Director of e-Learning Technology, IBM Learning Services, Belgium

PINNI BLDG., PAAVO KOLI/Brief: NewDev

Learn Developing New Roles in Teaching and Learning through Electronic Portfolios
Andrea Bartlett, Univ. of Hawaii at Manoa, USA

Tools Emerging Issues in Information Economy & Electronic Commerce: A Strategic Analysis
Nitya L Karmakar, Univ. of Western Sydney, Australia

Cases Student Directed Generation of Word Clusters with "Hikari": Utilizing WordNet in an Intelligent Vocabulary Tutoring System for Adults Learning English on the Web
Juan Leon, Kyoto Univ., Japan

UNIV. MAIN BLDG., D11/Brief: NewDev

Cases A North American Nationally Distributed Multimedia Course
Janice Fletcher, Laurel Brannen, and Erik Anderson, Univ. of Idaho, USA

Cases Developing More Effective Access to Higher Education for People with Disabilities: A Case Study in the Design of Accessible Online Courseware
Elaine Pearson, Univ. of Teesside, UK; Tony Koppi, Univ. of New South Wales, Australia

Cases Using Concept Mapping as an Interactive Learning Tool in Web-based Distance Education
Ann Shortridge, Univ. of Arkansas-Fayetteville, USA

UNIV. MAIN BLDG., TYT Auditorium/Full: SysRes

Learn Electronic Portfolios in Tenure and Promotion Decisions: Making a Virtual Case
Kristine Blair, Bowling Green State Univ., USA

Learn InTime (Integrating Technology Into the Methods of Education)
William Callahan, Univ. of Northern Iowa, USA

UNIV. MAIN BLDG., A2A/Full: SysRes

Infra Learning Resource Catalogue Design of the UNIVERSAL Brokerage Platform
Gorazd Vrabec, Inst. Jozef Stefan, Slovenia; Bernd Simon, Vienna Univ. of Economics and Business Administration, Austria

Infra Online education practice: A dual track balancing act
Mari Pete, Technikon Natal, South Africa

UNIV. MAIN BLDG., D10 B/Brief: NewDev

Cases Net-based Learning
Riitta Rinta-Filppula and Mick Draper, CERN, Switzerland

Cases Promoting best practice in information and computer science education through the UK national subject centre
Sylvia Alexander, Univ. of Ulster, Northern Ireland; Tom Boyle, Univ. of North London, England; Mike Joy, Univ. of Warwick, England

Cases UniWap project [<http://ok.helsinki.fi/sivut/uniwap.html>] This project deals with the WAP technology to be tested, piloted and completed in order to facilitate teaching and learning in the university
Kari Tuononen, Univ. of Helsinki, Finland

PINNI BLDG., 0081/Brief: NewDev

Cases A Requirements Model for a Quality of Service-aware Multimedia Lecture on Demand System
Earl F. Ecklund, UniK - Center for Technology at Kjeller, Norway; Vera H. Goebel, Univ. of Oslo, Norway; Jan Oyvind Agedal, SINTEF Telecom and Informatics, Norway; Edvin Bach-Gansmo, Faculty of Medicine, Univ. of Oslo, Norway; Thomas Plagemann, UniK - Center for Technology at Kjeller, Norway

HCI On Effects of Information Technology on Learning

Zoran Putnik, Univ. of Novi Sad, Yugoslavia

HCI When Good Courses Go Bad: The Anguish of Online Dysfunctionality
Dianne Conrad, Univ. of Alberta, Canada

UNIV. MAIN BLDG., A2B/Brief: NewDev

Learn Competencies for Online Teaching & Training
J. Michael Spector, Syracuse Univ./Univ. of Bergen, USA; Radha Ganesan, Syracuse Univ., USA; Peter Goodyear, Lancaster Univ., UK; Ileana de la Teja, Tele-universite, Canada

Learn Linking Teaching Styles and Learning Styles with Compatible Pedagogy: A Guide for Online Instruction
Karen Hallett and Chris Essex, Indiana Univ., USA

Learn Insuring Quality for Online Instructors: The Walden Certified Online Instructor (COI) Program
Marilyn Simon, Walden Univ., USA

UNIV. MAIN BLDG., A1/Brief: NewDev

Tools Novel Client Representations for the Collaborative Virtual Learning Environment sTeam
Projektgruppe sTeam, Univ. of Paderborn, Germany

Tools The Advance Distributed Learning (ADL) Initiative
G.A. Redding, Inst. for Defense Analyses, USA

Tools The SALSA Animation System - Simply Generating Java Applets to Learn with Basic Animations
Andreas Brennecke, Univ. of Paderborn, Germany; Jochen Greiving, Manfred Hußmann, and Michael Wegener, Univ. of Paderborn, Germany

UNIV. MAIN BLDG., A3/Brief: NewDev

Tools A Review of Web-based Learning Systems for Programming
Fadi Deek and Ki-wang Ho, New Jersey Inst. of Technology, USA; Haider Ramadhan, Sultan Qaboos Univ., Oman

Tools Accreditation of Prior Learning through Internet Technology
Bruno Emans, Univ. of Amsterdam, The Netherlands; Esther Oprins, CINOP, The Netherlands; Jacobijn Sandberg, Univ. of Amsterdam, The Netherlands

Tools Supporting Developers by Building-Block Methods: The Case of the Templates
Eddy Boot, TNO Human Factors, The Netherlands

UNIV. MAIN BLDG., A4/Brief: NewDev

Tools Interface Design and Tools for Creating a Multimedia Measurement Instrument
Maria Lorna Kunnath, Univ. of Central Florida, USA

Tools Towards a Compromise Between Talking Heads & Interface Agents: A Web-based "Mentor" for Computer Assisted Language Learning (CALL)
Julie Voce and Marie- Josée Hamel, UMIST, UK

Tools Personal Digital Assistants in the classroom: An experience
Patricio Rodriguez, Miguel Nussbaum, Gustavo Zurita, Ricardo Rosas, and Francisca Lagos, Catholic Univ., Chile

PINNI BLDG., 0078/Brief: NewDev

Infra Digital Broadband technologies and Handheld Devices opportunity for Modern Organisations and New Homo Mobiles
Harri Keiho, Jari Lahti, Jari Multisilta, and Harri Ketamo, Pori School of Technology and Economics, Finland

Infra Organization of Streaming Media Delivery in Academia. Case study at St. Cloud State University, St. Cloud, MN
Plamen Miltenoff, Saint Cloud State Univ., USA

Infra The Invisible Student: Total technology control of course delivery and management
Dwight Laws, Brigham Young Univ., USA

Concurrent Sessions – Thursday, June 28

11:15 AM-12:15 PM

UNIV. MAIN BLDG., D10 A/Panel (1 hour)

Telematics Simulation: Recent Developments & Issues
Janet Sutherland, Univ. Bremen, Germany; David Crookall, Univ. de Nice - Sophia Antipolis, France; Konrad Morgan, Univ. i Bergen, Norway; Amparo Garcia Carbonell, Univ. Politcnica de Valencia, Spain; Knut Ekker, Hogskolen i Nord-Trondelag, Norway

PINNI BLDG., PAAVO KOLI/Full: SysRes

Tools **EVA: Collaborative Distributed Learning Environment Based in Agents**
Leonid Sheremetov and Rolando Quintero, National Technical Univ., Mexico

Tools **Reflective Learning with Agent Simulations in Emergency Team Training**
Michael Dobson, Michael Pengelly, and Julie-Ann Sime, Lancaster Univ., UK

UNIV. MAIN BLDG., D11/Full: CES

Learn **Constructivist Design of Technology to Scaffold Student Learning of Scientific Phenomena and Principles**
Jerry P. Suits, McNeese State Univ., USA

Learn **Motivational approach of project based teaching**
Nathalie Huet, Christian Escribe, Claudette Marin, and Hadj Batatia, Univ. of Toulouse Le Mirail, France

UNIV. MAIN BLDG., TYT Auditorium/Full: CES

Learn **Gender and Learning Strategies within Cyberspace**
Insook Lee, Sejong Univ., R. of Korea

Learn **Model of Utilizing ICT in Teaching Information and Communication Ethics**
Chul-Hyun Lee, Soo-Bum Shin Shin, and Soon-Gyu Jang, Tae-Wuk Lee, Korea National Univ. of Education, Korea

UNIV. MAIN BLDG., A1/Full: CES

HCI **Are Experts Able to Predict Learner Problems during Usability Evaluations?**
Maia Dimitrova, Helen Sharp, and Stephanie Wilson, City Univ. London, UK

HCI **Communication Styles of Mentoring in an Electronic Forum**
Cheng-Chih Wu, Chin-Yuan Lai, and Greg. C. Lee, National Taiwan Normal Univ., Taiwan

UNIV. MAIN BLDG., D10 B/Full: CES

Cases **An ICT based project for the Facilitation of Equality, Understanding and Tolerance Among Israeli Jewish and Bedouin High School Students**
Yaacov Yablon and Yaacov J Katz, Bar-Ilan Univ., Israel

Cases **Satellite Home Tutorials vs. Satellite Classroom Tutorials**
Ruth Beyth-Marom, Edna Yafe, Meira Privman, and Hamutal Razi Harpaz, The Open Univ. of Israel, Israel

PINNI BLDG., 0081/Full: CES

Cases **Middle School Students as Multimedia Designers: A look at their cognitive skills development**
Min Liu and Yu-ping Hsiao, Univ. of Texas- Austin, USA

Cases **Challenges of Designing Communal Web-based Learning Environments**
Sanna Vahtivuori and Teemu Masalin, Univ. of Helsinki, Finland

UNIV. MAIN BLDG., A2B/Full: CES

Cases **Developing a questionnaire to measure the effectiveness of computers in teaching**
Ananda Mitra, Wake Forest Univ., USA

Cases **Intercultural Foreign Language Studies in the Russian on the Net Learning Environment**
Nina Forsblom, Tampere Univ. of Technology, Finland

TAMPERE HALL, STUDIO/Full: SysRes

Tools **Building A Virtual Learning Community of Distributed Knowledge on Web for University Students, ROC**
Chi-Cheng Chang, National Taipei Univ. of Technology, ROC

Tools **MathCAL and Its Database Design**
Janet Mei-Chuen Lin, Long-Hwai Huang, Kevin K. Huang, and Jie-Yong Juang, National Taiwan Univ., Taiwan

UNIV. MAIN BLDG., A2A/Full: SysRes

Tools **Cooperative Monitoring Agent using Mobile Agent**
Chul-Hwan Lee, Incheon National Univ. of Education, Korea; Sun-Gwan Han, Incheon National Univ. of Education, Korea

Tools **The Fluid Reading Primer: Animated decoding support for emergent readers**
Polle Zellweger and Jock Mackinlay, Aarhus Univ., Denmark

UNIV. MAIN BLDG., A3/Full: SysRes

Tools **Authoring Techniques for Educational Video Data**
Arno Klein, Univ. of Erlangen-Nuremberg, Germany

Tools **Towards More Independent Learning: A Southern Nevada Perspective**
Scott Beckstrand, Community College of Southern Nevada, USA; Philip Barker and Paul van Schaik, School of Social Sciences, Univ. of Teesside, UK

UNIV. MAIN BLDG., A4/Full: CES

Learn **Learning with cyberfriends: The development of professional reflection-on-action skills through online partnerships**
Catherine McLoughlin, The Univ. of New England, Australia; Joe Luca, Edith Cowan Univ., Australia

Learn **Learning contracts - A measure to set up a framework for communication and cooperation in e-Learning?**
Jens Breuer, Univ. of Cologne, Germany

PINNI BLDG., 0078/Full: CES

Learn **Computing learning in secondary schools in Spain: Some implications related to gender**
Esther Ruiz Ben, Institut fur Informatik und Gesellschaft, Germany

Learn **Evaluation of Program Impact Based on Teacher Implementation and Student Performance**
Laurie Ruberg, Wheeling Jesuit Univ., USA

Lunch Break: 12:15-1:30 PM

1:30-2:30 PM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

Relationships Among Learner Characteristics, Course Design Factors, and Student Perceptions of Learning Online
Karen Swan, Univ. at Albany Graduate School of Education; Director of the Learning Technologies Laboratory and the Summer Technology Institute, USA

PINNI BLDG., PAAVO KOLI/Brief: NewDev

Cases **Authoring tools for construction of personally meaningful artefacts**
Rob Wright, Barry Harper, and John Hedberg, Univ. of Wollongong, Australia

Cases **Improving Motivation by Flexible Course Organization: Case Study on Telecommunicatios Education**
Joao-Batista Destro-Filho, State Univ. of Campinas, Brazil; Jose-Paulo Breda-Destro, OasiSTEC Foundation, Brazil

Cases **New Designs for Web Based Learning Environments**
Barry Harper, Univ. of Wollongong, Australia; John O'Donoghue, Univ. of Wolverhampton, UK; Ron Oliver, Edith Cowan Univ., Australia; Lori Lockyer, Univ. of Wollongong, Australia

UNIV. MAIN BLDG., D11/Brief: NewDev

Learn **The Continuous Education Solution for a Country Wide Telecommunication Company**
Marcelo Leifheit, Juarez Sagebin, Daniel Fink, Candida Moraes, and Alexandre Sonntag, CRT - Brasil Telecom, Brazil

Learn **Use of Video Mediated Instruction in Teaching American Heart Association Emergency Cardiac Care Training Courses**
Darrell DeMartino, Univ. of Houston, USA

Tools **Virtual Planetarium**
Igor Nikitin, GMD - National Research Center for Information Technology, Germany; Stanislav Klimenko, ICCPT - Inst. of Computing for Physics and Technology, Russia

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev

Learn **Don't give up! The online course will get better. How to minimize critical success factors for online courses**
Marilene Garcia, Univ. Anhembi Morumbi - Univ. de Franca, Brazil

Learn **Professional Second Skin**
Valdemarina Bidone de Azevedoe Souza-, Claudia Bahia-Carrion, and Celina Verran Faillace, Pontificia Univ. Catolica do Rio Grande do Sul - PUCRS, Brazil

Learn **Reinventing the TV and the video in school: Report of a workshop for training teachers**
Luciana Rocha de Dalla Valle, TV Escola - Parana, Brazil; Dulce Marcia Cruz, Univ. Federal de Santa Catarina - Univ. Regional de Blumenau, Brazil

Concurrent Sessions – Thursday, June 28

UNIV. MAIN BLDG., A2A/Brief: NewDev

HCI **Concept Maps: E - Learning Environment**
Nurit Natan and Ilana Barkai, Kaye College of Education, Israel

Learn **Education Administrator Technological Competencies and Training**
L. Dean Webb, Arizona State Univ., USA; Roger Yohe, Maricopa Community Colleges, USA

HCI **How Faculty Develop and Deliver Online Courses: A Task Analysis**
Anne Archambault and John Nesbit, Technical Univ. of British Columbia, Canada; Louise Allen, Louise Allen & Associates, Canada

UNIV. MAIN BLDG., D10 B/Brief: NewDev

Cases **Enhancing Student Performance on State Mathematics Proficiency Tests: Using Multimedia Collaborative Web-based Lesson Plans and Practice Tests**
Lih-Ching Chen Wang and Holly Brinda, Cleveland State Univ.

Cases **In Search of a Web Course Management Tool: Selection and Evaluation of web course management tool**
Radha Ganesan, Syracuse Univ., USA; Michael Spector, IDDE, Syracuse Univ.; IFI, Univ. of Bergen, USA

Cases **The Design of an Intelligent Automatic Learning Assistant for the Promotion of Learner Independence**
Ray Jones, John Cook, and Fiona French, Univ. of North London, UK

PINNI BLDG., 0081/Brief: NewDev

Cases **A snapshot of technology in US Schools: Where are we today?**
Jennifer Richardson, Doug Levin, and Vicki Lundmark, American Inst. for Research, USA

Cases **A system for Creating and Offering Customisable Training Material Applied to Digital Printing - Project description**
Helene Juhola and Asta Bäck, VTT, Finland

Cases **Multimedia and Telelearning at the Grammer School of the Pedagogic High School of the Archdiocese of Vienna**
Wolfgang Seper, Grammar School at the Pedagogic High School, Austria

UNIV. MAIN BLDG., A2B/Brief: NewDev

Cases **Developing an online ESL course using Available Instructional Materials and Formative Analysis**
Robert Berman, Univ. of Alberta, Canada

Cases **Innovative use of Bulletin Boards in undergraduate and masters level online courses**
Stuart Young, UNITEC Inst. of Technology, New Zealand

Learn **the Web in the Eyes of the Learner**
Quynh Le and Thao Le, Univ. of Tasmania, Australia

TAMPERE HALL, STUDIO/Brief: NewDev

Infra **Education Support Paradigm as Knowledge Management**
Toyohide Watanabe, Nagoya Univ., Japan

Infra **Collaborative Adaptive Instructional Planning: Problems, Issues and Concerns**
Albert K W Wu, Chinese Univ. of Hong Kong, China

Infra **Agent-based workflow systems in electronic distance education**
Nomusa Dlodlo, Joseph Bhekizwe Dlodlo, and Bighton Siyanda Masiye, National Univ. of Science and Technology, Zimbabwe

UNIV. MAIN BLDG., A1/Brief: NewDev

Tools **Coimbra, a New Authoring Tool for Electronic Textbooks**
Edgar Weippl, Software Competence Center Hagenberg, Austria; Hans Lohninger, Vienna Univ. of Technology, Austria

Cases **Distributed Cognitive Tools to Improve High order Cognitive Skills such as: Argumentation, negotiation and restructuring of knowledge**
Max Giardina and Laila Oubenaissa, Univ. of Montréal, Canada

Tools **Using metadata for re-using material and providing user support tools**
Allard Strijker, Univ. of Twente, The Netherlands

UNIV. MAIN BLDG., A3/Brief: NewDev

Tools **Education and Information of Architects - New Media for Innovative Solar Architecture**
Stephan Benkert, Joachim Clemens, and Frank-Dietrich Heidt, Univ. of Siegen, Germany

Tools **Using Two-Way Audio Video Desktop Technology to Support Educators Seeking Educational Diagnostician Certification in a Distance Education Program**
Jane Pemberton, Tandra Tyler-Wood, Maria Victoria Perez-Cereijo, Joyce Rademacher, and Pam Tipton, Univ. of North Texas, USA

Tools **xClass - Extensible Virtual Classroom - Mobile communication possibilities in teaching**
Harri Ketamo, Jari Multisilta, Jari Lahti, and Harri Keiho, Pori School of Technology and Economics, Finland

UNIV. MAIN BLDG., A4/Brief: NewDev

Learn **Developing Online E-Commerce Business Plans to Provide Students with Context and Job Opportunities**
Joe Luca, Edith Cowan Univ., Australia; Catherine McLoughlin, Univ. of New England, Australia

Tools **Distributed Learning: Intranet and Internet Applications**
Elinor Greene, TransTech Interactive Training, USA

Learn **Facing the Vast Information Network: Finnish Primary School Student Teachers reflect on their Relationship with the Internet**
Ilta-Kanerva Kankaanrinta, Univ. of Helsinki, Finland

PINNI BLDG., 0078/Brief: NewDev

Learn **Implementing a Rubric for Appropriate Application of Multimedia in Online Courses: A Case Study**
Mary Wall and Joyce Grohman, Atlantic Cape Community College

Learn **The New Digital Civilization: The Best of Times, the Worst of Times**
Melissa Roberts Becker and Donna Wood, Northeastern State Univ., USA

Learn **The Role of Pedagogy in the Use of Networked Learning Environments**
Chrystalla Mouza, Teachers College, Columbia Univ., USA; Benjamin Bell, Lockheed Martin Advanced Technology Laboratories, USA

UNIV. MAIN BLDG., Computer Room 4/Interactive Session

Exploring the use of electronic portfolios in international contexts, Finland
Marja Kankaanranta, Univ. of Jyväskylä, Institute for Educational Research, Finland

Beverage Break: 2:30-2:45 PM

2:45-3:45 PM

UNIV. MAIN BLDG., D10 A/Panel (1 hour)

Simulations for Social Reasoning: Helping Students Understand the Complexity Behind Social Decisions
Steve Cohen and Kent Portney, Tufts Univ., USA; Jerry Goldman, Northwestern Univ., USA; Dean Rehberger, Michigan State Univ., USA

PINNI BLDG., PAAVO KOLI/Full: CES

Learn **Virtual Career Guidance Provision in Education**
George Papas, Pedagogical Inst., Greece; Petros Stefanias, National Technical Univ. of Athens, Greece

UNIV. MAIN BLDG., D11/Full: CES

Learn **Gender and Online Discussions: Similarities or Differences in Participation?**
Gayle V Davidson-Shivers, Samantha Morris, and Tuangrat Sriwongkol, Univ. of South Alabama, USA

Learn **Learning Style Theory and Computer Mediated Communication**
Hilary Atkins and David Moore, Leeds Metropolitan Univ., England; Dave Hobbs, Bradford Univ., England; Simon Sharpe, Leeds Metropolitan Univ., England

UNIV. MAIN BLDG., TYT Auditorium/Full: CES

HCI **Using Electronic Art to Define Navigation Paradigms for Hypermedia Communication**
Patricia Search, Rensselaer Polytechnic Inst., USA

HCI **A Real Time text to Emotion Engine for Expressive Internet Communications**
Anthony Boucouvalas and Hasan Chowdhury, Bournemouth Univ., DEC., UK

UNIV. MAIN BLDG., A2A/Full: SysRes

Infra **Design and Implementation of a LoD System for Multimedia-Supported Learning for Medical Students**
Chuanbao Wang, Denise Ecklund, and Earl Ecklund, UniK - Center for Technology at Kjeller, Norway; Vera Goebel, Univ. of Oslo, Norway; Thomas Plagemann, UniK - Center for Technology at Kjeller, Norway

Infra **Middleware to Support an Asynchronous Internet Course**
Shunichi Toida, Chris Wild, M. Zubair, Li Li, and Chunxiang Xu, Old Dominion Univ., USA

Concurrent Sessions – Thursday, June 28

UNIV. MAIN BLDG., D10 B/Full: CES

Learn Useability and Learning in Online Environments
Rod Sims, Southern Cross Univ., Australia

Cases Rethinking Education: From Teacher led to Learner Led Learning
Ralph Genang, Ralph Genang and Sicco Santema, Delft Univ. of Technology, The Netherlands

PINNI BLDG., 0081/Full: CES

Cases Comparing the Impact of Two Types of Knowledge Organizers on Learning Complex Conceptual Material in a Second Year Course on German Thought and Culture
Paul Malone and Vivian Rossner-Merrill, Univ. of Waterloo, Canada

Cases Human-Centred Use and Development of Information Systems
Hannakaisa Isomäki, Miika Marttunen, Jouko Kari, and Antti Pirhonen, Univ. of Jyväskylä, Finland; Jyrki Suomala, Univ. of Turku, Finland

UNIV. MAIN BLDG., A2B/Full: Other

Cases Improving Access Using Simulations of Community Resources
Clark Germann, Jane Kaufman Broida, Jeffrey Broida, and Scott Houck, Metropolitan State College of Denver, USA

Cases Instructional Strategies for the World Wide Web: Outline of a Taxonomy
Jan L. Plass and Robert R. Whelan, New York Univ., USA

TAMPERE HALL, STUDIO/Full: SysRes

Tools Experiences with the ARIADNE pedagogical document repository
Bart Verhoeven, Kris Cardinaels, Rafael Van Durm, Erik Duval, and Henk Olivi, Katholieke Univ. Leuven, Belgium

Tools Learning Objects Metadata and Tools in the Area of Operations Research
Stephan Kassanke, Univ. of Paderborn, Germany; Achim Steinacker, Technical Univ. of Darmstadt, Germany

UNIV. MAIN BLDG., A1/Full: SysRes

Learn A Survey of Current Computer Skill Standards and Implications for Teacher Education
Valerie Irvine and T. Craig Montgomerie, Univ. of Alberta, Canada

Tools Using "WoundCare" to Learn
Glenn Ross, Charles Sturt Univ., Australia; Juhani Tuovinen, Monash Univ., Australia

UNIV. MAIN BLDG., A3/Full: SysRes

Tools A Framework for Microworld-style Construction Kits
Adrienne H. Slaughter, Stanford Univ., USA; Carol Strohecker, MERL, USA

Tools Analysing User Actions in a Smalltalk Programming Environment
Malcolm Macgregor, Pete Thomas, and Carina Paine, Open Univ., UK

UNIV. MAIN BLDG., A4/Full: SysRes

Tools Errors as learning opportunities in foreign language learning: The computer as an intelligent corrector
Bert Wyltin and Piet Desmet, K.U.Leuven Campus Kortrijk, Belgium

Tools New Concepts for the Usage of Groupware in Software Engineering Education
Stefan Werner, Axel Hunger, and Frank Schwarz, Gerhard Mercator Univ. of Duisburg, Germany

PINNI BLDG., 0078/Full: SysRes

Learn Combining Different Aims in a Portfolio System: A Web-based Portfolio and the Various Ways in Which It Can Serve the Student
Magda Ritzen, Hogeschool van Utrecht/Cetis, The Netherlands; Jacqueline Kosters, Amsterdam Faculty of Education, The Netherlands

Learn Facilitating the mental integration of multiple sources of information in multimedia learning environments
Rolf Ploetzner, Daniel Bodemer, and Inge Feuerlein, Univ. of Freiburg, Germany

4:00-5:00 PM

UNIV. MAIN BLDG., D10 A/Brief: Demo

Learn Supplemental Course Delivery via the World Wide Web: An Introduction to Design
R. Brian Stone, The Ohio State Univ., USA

Learn The Educational Process in the Emerging Information Society: Conditions for the Reversal of the Linear Model of Education and the Development of an Open Type Hybrid Learning Environment
Panagiotes Anastasiades and Simos Retalis, Univ. of Cyprus, Cyprus

PINNI BLDG., PAAVO KOLI/Brief: NewDev

Tools Computer-based Tools for the Development and Investigation of Mental Model Reasoning about Causal Systems
Danielle Kaplan and John Black, Teachers College, Columbia Univ., USA

Cases Learning About Multimedia Design Through Real-Life Cases
Sue Bennett, Barry Harper, and John Hedberg, Univ. of Wollongong, Australia

Cases Supporting Social Interactions in Distance Education with a 3D Virtual Learning Space
Daniel Skog, Ulf Hedestig, and Victor Kaptelinin, Umea Univ., Sweden

UNIV. MAIN BLDG., D11/Brief: NewDev

Learn Development of a CD-ROM based Inservice teacher training program for ICT instruction
Katsuaki Suzuki, Iwate Prefectural Univ., Japan; Shigeru Hirasawa, Bunkyo Univ., Japan

Learn Some "Do's and Don'ts" in the Delivery of Distance/Online Education
A. Richard Tarver, Lissa Pollacia, and Thomas Hanson, Northwestern State Univ., USA; Claude Simpson, Texas A & M Univ. at Kingsville, USA

Learn Virtual Communities: A New Distance Learning Application for a Telecommunication Company
Candida Moraes, Daniel Fink, Juarez Sagebin, Alexandre Sonntag, and Paulo Mendel, CRT Brasil Telecom, Brazil

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev

Tools A Systematic Approach for Multimedia Development with the Six-Leaves-Model
Gerard Veldhuis and Yvonne Barnard, TNO Human Factors, The Netherlands; John Van Rooij, Staff COKL RNLA, The Netherlands

Cases Discotech-Bimbotech. A case study: Spontaneous Interaction between Kindergarten Children and Computer
Isabella Rega, Sara Petazzi, and Aldo Torrebruno, Politecnico di Milano, Italy

Tools Problem-based learning with multimedia interactive cases in nursing and orthopedagogy
Nicole Viaene and Marc Vercruysee, Impulscentre of Educational Innovation KATHO-KULAK, Belgium

UNIV. MAIN BLDG., A2A/Full: SysRes

Learn Myths and Realities of Using WBT to Deliver Training Worldwide
Margaret Driscoll, IBM Mindspan Solutions, USA

Tools The Development of a Hypermedia Language Learning Environment For Teaching Academic English
Jin Chen, Alexandra Critea, Toshio Okamoto, and Hisayoshi Inoue, The Univ. of Electro-communications, Japan

UNIV. MAIN BLDG., D10 B/Brief: NewDev

Cases Analytic Studies of Bulletin Board for Cross Cultural Communication
Yaeko Nakanishi, Lumi Tatsuta, Masayuki and Atsuo Iguchi, Dokkyo Univ., Japan; Giichi Tomizawa, Schience Univ. of Tokyo, Japan

Cases Designing a Virtual Laboratory for an Online Course in Microelectronics
Gabriel Dima, Razvan Matel, Ciprian Cudalbu, and Marcel Profirescu, Univ. Politehnica of Bucharest, Romania

Cases Project COMPETE (Competency-Based Continuing Education for Teachers Utilizing Distance Education Technologies and Materials)
Erlinda Pefianco, Eligio Barsaga, and Maryam Jameelah Mangorangca, SEAMEO INNNOTECH, Philippines

PINNI BLDG., 0081/Brief: NewDev

Infra Developing Generic Skills through Online Courses
Joe Luca and Ron Oliver, Edith Cowan Univ., Australia

Tools Generating Personalized Education Documents Using a Presentation Planner
Paul Libbrecht, Erica Melis, and Carsten Ullrich, DFKI Saarbruecken, Germany

Infra Implementing Learning Object Metadata using RDF
Walid Kekhia, Supelec, France; Yolaine Bourda, Supelec, France

UNIV. MAIN BLDG., A2B/Brief: Other

Cases Developing Infrastructure in Developing Countries: A Role for Faith-based Organizations in Technology Transfer in Kenya
Pamela Hassebroek, Georgia Inst. of Technology, USA

Cases Planning A Technology-based Learning Infrastructure for Recurrent Education of Police in Taiwan
Szuchien S. Wu, Central Police Univ., Taiwan; Hueychig J. Jih, Tamkang Univ., Taiwan

Cases Training, Support, Practices and Needs of the Distance Educator
Susan Lyman, Doug Williams, Lucy Begnaud, and Renee LeJeune, Univ. of Louisiana at Lafayette, USA

Concurrent Sessions

TAMPERE HALL, STUDIO/Brief: Other

- Learn** **Cyber-based Service Learning: Community Projects in Africa**
Peggy James, Univ. of Wisconsin-Parkside, USA
- Learn** **Effective Instructional Technology Training and Support for Faculty**
Michael Rodgers and David Starrett, Southeast Missouri State Univ.
- Learn** **Teacher Guidance to Digital Lectures**
Manfred Schertler and Freimut Bodendorf, Univ. of Erlangen-Nuremberg, Germany

UNIV. MAIN BLDG., A1/Brief: NewDev

- Tools** **An Online Simulated Golf League Multimedia Environment: A Case Study from a Postgraduate Computing Module**
Peter K. Oriogun, Wanda K. Roberts, Mustapha Zaouini, and Nicholas J. Swann, Univ. of North London, England
- Cases** **Gender Differences in Online Learning**
Stuart Young and Mae McSparran, UNITEC Inst. of Technology, New Zealand
- Tools** **Helping Authors to be More Explicit**
Saïd Tazi, Univ. Toulouse 1, France

UNIV. MAIN BLDG., A3/Brief: NewDev

- HCI** **A Computer Tool for Writing Japanese as a Foreign Language**
Chris Houser, Kinjo Gakuin Univ., Japan
- Cases** **Adopting an Instructional Pedagogy for Constructive Online Learning**
Stylianios Hatzipanagos, Chris Sadler, Mark Woodman, and Maya Milankovic-Atkinson, Middlesex Univ., UK
- HCI** **Children as Design Partners: A Qualitative Study of Process and Products**
Gail Fitzgerald, Hsinyi Peng, and Ran-Young Hong, Univ. of Missouri-Columbia, USA

UNIV. MAIN BLDG., A4/Brief: NewDev

- Tools** **A tool for practicing formal proofs**
David Abraham, Liz Crawford, Leanna Lesta, Agathe Merceron, and Kalina Yacef, Univ. of Sydney, Australia
- Tools** **Designing Simulator for Construction of a Virtual Computer System Using Arbitrary Levels of Abstraction**
Tomohiro Nishida, Osaka Gakuin Univ., Japan; Junichi Yahara, Osaka Univ., Japan; Kazutoshi Fujikawa, Hayato Ishibashi, and Kota Abe, Osaka City Univ., Japan
- Tools** **X-Quest: An Open Tool to Support Evaluation in Distance Learning**
Juan C. Burguillo, Univ. de Vigo, Spain; Jose V. Benlloch, Univ. Politécnica de Valencia, Spain; Juan M. Santos and Daniel A. Rodriguez, Univ. de Vigo, Spain; Felix Buendía, Univ. Politécnica de Valencia, Spain

PINNI BLDG., 0078/Brief: NewDev

- Learn** **Changing Role of Teachers and Learners in Web-based Education**
Pithamber R. Polsani, Univ. of Arizona, USA
- Learn** **Some Observations on Student Use of Electronic Communications in Second-Year Biology Courses**
Michael Collins, and Michael Barbour, Memorial Univ. of Newfoundland, Canada
- Learn** **A Collaborative Environment for Visual Representation of the Knowledge on the Web - VEDA**
David Prata and Fabio Paraguacu, Univ. Federal de Alagoas, Brazil

UNIV. MAIN BLDG., Computer Room 4/Interactive Session

Using Adobe Acrobat as the ideal hypermedia format for Electronic Portfolio Development
Helen Barrett, Univ. of Alaska Anchorage, USA

Thursday, June 28 • Poster/Demonstrations 6-8 PM • Tampere Hall, Exhibition Hall, 1st Floor

- Tools for Authoring and Delivering Adaptive Instruction**
James McCarthy, John Wayne, and John Morris, Sonalysts, Inc., USA
- R5 Vision**
Petri Kajander, R5 Vision Oy, Finland
- School community**
Herre Rost van Tonningen, NIAM-TMS, Netherlands
- New Advanced Virtual Learning Environment**
Matti Vitikainen, Edusolutions Oy, Finland
- Universitat Oberta de Catalunya**
Francesc Vallverdu, Univ. Oberta de Catalunya, Spain
- Delivering E-Learning via a Combination of Web and WAP Technologies**
Geoff Ring, ICUS, Singapore
- A Scripting Language for Multi-Character Presentation Agent based on Multimodal Presentation Markup Language**
He Binda, Santi Saeyor, and Mitsuru Ishizuka, The Univ. of Tokyo, Japan
- A multimedia gate to Museum of Astronomy**
Anna Lina Auricchio, Astronomical Observatory of Capodimonte, Italy; Enrica Stendardo, II Univ. of Naples - Faculty of Letters, Italy
- A prototype for optimizing Web browsing in wireless environment**
Cosmina Ivan, Technical Univ. of Cluj, Romania
- AIOLOS: A Tutoring System for Wast Management**
Spiros Sirmakesis, Maria Rigou, and Athanasios Tsakalidis, Computer Tech. Inst., Greece
- An Evaluation of TIES (Training, Infrastructure & Empowerment System): Evaluating Learning Technology Initiatives in Continuing Professional Development**
Michael Szabo and Daylene Lauman, Univ. of Alberta, Canada
- Campus Neo - A Bothnian Virtual Campus**
Tor Söderström and Kåre Synnes, Centre for Distance-spanning Learning, Sweden; Timo Parkka, Learning and Research Services, Finland
- Childrens' Attitude toward Internet**
Takashi Ikuta, Niigata Univ., Japan; Toshiyuki Kihara, Osaka City Univ., Japan
- Collaborative Learning: A Web-based Case Study**
Quynh Le and Thao Le, Univ. of Tasmania, Australia
- Collaborative Technology Exploration: Bridges Between University and K-12 Education**
Carol Wolfe and Jefferey Ashley, Saginaw Valley State Univ., USA; Nancy Elliott, Ubyly Public Schools, USA; Ericka Taylor, Saginaw Public Schools, USA; Janice Wolff, Saginaw Valley State Univ., USA
- Computer-Supported Collaborative Work (CSCW)**
Gerald Edmonds, Denis Eseryl, Radha Ganesan, and Michael Spector, Syracuse Univ., USA
- Coordination Role in Evolution Systems**
Angela Carrillo, Univ. de los Andes, Colombia
- Coupling IP-videoconference with web-based learning environment**
Timo Pärkkä, Univ. of Oulu, Finland; Markku Ojala, VIDERA, Finland; Ville Juutinen, Univ. of Oulu, Finland; Arne Oehlsen, Charite, Germany; Janne Himanka, Sonera, Finland
- Creating a Campus Center for Teachers "Teaching with Technology": Emory's Center for Interactive Teaching**
Jason Lemon, Emory Univ., USA; Wayne Morse, Emory Univ., USA
- Designing Dynamical Learning Environments for Simulation**
R. (Rik) Min, Univ. of Twente, Holland
- Designing for Harmony and Diversity**
Therese Nelson, Univ. of Chicago, USA
- Development and Evaluation of Introductory IT Self-training System for Life-long Learners**
Katsuaki SUZUKI, Masahumi Deguchi, and Hiroshi Takahashi, Iwate Prefectural Univ., Japan; Tetsuo Kato, Sendai-Miyagi and Ryo Oikawa, Iwate NPO-NET Support, Japan
- Differences in Learning with Multimedia vs Non-Multimedia Presentation Formats**
Fidel Michael Salinas, Univ. of the Pacific, USA
- Digital Learning Hubs - developing, converging and managing educational information streams**
Alan Cody, Susan Hamilton, and Andrew Noskoff, The Univ. of Queensland, Australia; Stephen Atherton, Apple Australia, Australia; Hank Szeto, The Univ. of Queensland, Australia

(Poster/Demos continued)

25. **Direct Path Online Learning**
Nancy Omaha Boy, Rutgers Univ., USA
26. **Distance-Collaborative Design: An Approach to the Design of Children's Electronic Textbooks**
Norshuhada Shiratuddin and Monica Landoni, Univ. of Strathclyde, UK
27. **Do Gender Differences in Computer Efficacy Affect Course Grade Performance in Interactive Technology Courses?**
Holly Traver and Bianca Dupuis, Rensselaer Polytechnic Inst., USA
28. **Doing research on web-based learning**
Leena Kuure and Saarenkunnas Maarit, Univ. of Oulu, Finland; Taalas Peppi, Univ. of Jyväskylä, Finland
29. **Electronic Portfolio Development and Publishing: Options and Issues**
Helen Barrett, Univ. of Alaska Anchorage, USA
30. **Empowering the citizen**
Frank von Danwitz, Deutsches-Diabetes-Forschungsinstitut, Germany; Thomas Baehring, Heinrich-Heine-Universitaet Duesseldorf, Germany; Werner A. Scherbaum, Deutsches-Diabetes-Forschungsinstitut, Germany
31. **Evaluating the impact of multimedia learning environments: Visit to a virtual primary school**
Fiona French, Univ. of North London, UK; Ian Cumpson, Univ. of Greenwich, UK; Ruth Wood, Kingston Univ., UK
32. **Exploring Roles for Intelligent Agents in a Language Learning MOO**
Juan Leon, Kyoto Univ., Japan
33. **Feedback in Virtual Learning Environments**
Marja Kallonen-Rönkkö, Univ. of Joensuu, Finland
34. **Filling RL/IT Gap with International Curricula**
Nina Rubina and Yury Kirchin, Federal Univ. Computer Network of Russia RUNNet, Russia
35. **GUIDE: An instrument for Evaluating Quality of Instructional Design in Mixed-Mode University Courses**
Karen Belfer and John Nesbit, Technical Univ. of British Columbia, Canada
36. **Grounding in collaborative web-based interaction and learning**
Kati Mäkitalo, Univ. of Jyväskylä, Finland; Piritta Salo, Univ. of Oulu, Finland; Päivi Häkkinen, Univ. of Jyväskylä, Finland; Sanna Järvelä, Univ. of Oulu, Finland
37. **How to implement WBT into higher education**
Anna Grabowska, Technical Univ. of Gdansk, Poland
38. **Incorporating Computer Assisted Learning into the Teaching of Cultural Studies: The Virtual Shopping Mall Case Study**
Annamarie Jagose and Somaiya Naidu, Univ. of Melbourne, Australia; Lee Wallace, Univ. of Auckland, New Zealand
39. **Integrating XML-based Courses into a LTSA-Environment**
Ralph Sontag and Uwe Hübner, TU Chemnitz, Germany
40. **Interactive Video Distance Education Classroom Design For Effective Instruction and Learning**
Chien-Chih (James) Lee, Mississippi State Univ., USA
41. **Interface Design and Tools for Creating a Multimedia Measurement Instrument**
Maria Lorna Kunnath, Univ. of Central Florida, USA
42. **Learner characteristics that negatively impact online versus paper-and-pencil test performance**
Roy Clariana, Penn State Univ., USA; Patricia Wallace, The College of New Jersey, USA
43. **Managing Learning Technologies Laboratories: Some Issues That Are Not Related to Technology**
M.O. Thirunarayanan, Florida International Univ., USA
44. **New Possibility in Medical Education**
Erzsebet Forczek, SZTE, AOK, Hungary
45. **Novel client representations for the Collaborative Virtual Learning Environment sTeam**
Projektgruppe sTeam, Germany
46. **PDAs: Learning in the Palm of Your Sweaty Little Hands**
Carol Gilley, Univ. of Arkansas, USA; Donetta Ginn, Univ. of Memphis, USA
47. **PICCO - the Pictorial Computer Simulation of a Selected Natural Phenomenon: Description, Demonstration and Research Results**
Marjatta Kangassalo, Univ. of Tampere, Finland
48. **Practice makes perfect: Preparing participants for an online conference**
Jean Vermel, Mofet Inst. and Beit Berl College, Israel
49. **Proposal of an Integrated Tool Involving Multiple Technologies for the Development of Courses on the Web**
Rafael Scapin, Elaine Oliveira, and Wilson Vicentini, Univ. of Sao Paulo, Brazil
50. **QuS-Support of Digital Video Broadcast (DVB) in the Next-Generation-Internet**
Artur Lugmayr, TTKK, Finland
51. **Relationship between technology design characteristics and the effects of small group learning**
Yiping Lou, Louisiana State Univ., USA
52. **Remote Control Laboratory for Physics Experiments via Internet**
Heebok Lee, Jong-Heon Kim, and Keun-Cheol Yuk, Kongju National Univ., South Korea; Heeman Lee, Seowon Univ., South Korea
53. **Retrieval System of Online Kanji Dictionary with Learning Functions**
Koji Iida, Kazuto Yamada, Shinichi Fujita, and Seinosuke Narita, Waseda, Japan
54. **Situating Training for Early Childhood Educators in An Authentic Multimedia Learning Environment: The Case of Chelsea**
Gail Fitzgerald, Univ. of Missouri-Columbia, USA; Louis Semrau, Arkansas State Univ., USA
55. **Small enterprises creating knowledge with information technology and networking**
Taina Era and Kirsi Karjalainen, Univ. of Joensuu, Finland
56. **TELEADAPT-SOCINF: Continuous training for SMEs employers and employees in Catilla y Leon and Berlin**
Maria Angeles Perez, Maria Jesus Verde, Blanca Rodriguez, and Luisa Regueras, Univ. of Valladolid, Spain
57. **THE 'REDI' PROJECT Online educational resources for the development of professional multimedia skills**
Ricardo Dal Farra, National Ministry of Education, Argentina
58. **TOETS: Development of a computer assisted assessment system**
Eddy Demeersseman, Bert Wylin, and Jos Panen, KULAK, Belgium
59. **Teaching Science through Web Adventures**
Leslie Miller, Janice Mayes, and Donna Smith, Rice Univ., USA
60. **Technology and Early Childhood Education: Issues and Resources for Supporting Young Children's Healthy Sexuality**
Kent Chrisman and Donna Couchenour, Shippensburg Univ. of Pennsylvania, USA
61. **Technology-related Promotion & Tenure Guidelines**
David Starrett and Michael Rodgers, Southeast Missouri State Univ., USA
62. **The Effects of College Student's Educational Level and Gender on their Use of the Internet as: (A) An Instructional Tool, (B) A Research Tool, (C) A Communication Tool, and (D) An Entertainment Tool**
Abdulrahman Al-Motrif, King Saud Univ., Saudi Arabia
63. **The Empirical Study of College Student's Attitudes Toward Computer Networks and Internet Addiction Tendency**
Ching-Hwei Hsieh and Shu Ching Yang, National Sun Yat-sen Univ.
64. **The Notebook Manager: Handling courses on electromagnetics written in Mathematica ®**
Marc Helier, Frederic Suspene, and Walid Tabbara, SUPELEC, France
65. **The Virtual Reality Science Museum of Kongju National University in Korea**
Heebok Lee, Jong-Heon Kim, and Keun-Cheol Yuk, Kongju National Univ., South Korea; Heeman Lee, Seowon Univ., South Korea
66. **The elements of hypertext concept in some monographs published between Hypertext '87 -conference and the launch of World Wide Web: In progress -report**
Juha Kämäräinen, Univ. of Oulu, Finland
67. **The NCTM Illuminations Website Project: Changing the Vision of School Mathematics**
Eric Hart, Western Michigan Univ. & Maharishi Univ., USA; Brian Keller, Michigan State Univ., USA
68. **The process of constructive learning: analysing children's collaborative work while constructing with LegoMindstorms**
Stefan Aufenanger, Univ. of Hamburg, Germany
69. **Using PDP As A Skills Audit Tool To Support Professional Development**
Charles Juwah, The Robert Gordon Univ., Scotland; Jenny Ure, Univ. of Aberdeen, Scotland
70. **Video Supported Web Learning**
Matjaz Debevc and Dean Korosec, Univ. of Maribor, Slovenia
71. **WWW-based Multimedia Training System Linked with Teaching Materials**
Yamato Harada, Yusuke Yanagida, Shinichi Fujita, Chun Chen Lin, and Seinosuke Narita, Waseda Univ., Japan

Concurrent Sessions – Friday, June 29

FRIDAY, JUNE 29

8:30-9:30 AM

TAMPERE HALL MAIN AUDITORIUM

Keynote

**The Learning Federation:
A Research Agenda for Transforming Learning in the Digital Age**
Randy J. Hinrichs, Group Research Manager
Learning Sciences and Technology, Microsoft Research, Microsoft, USA

Beverage Break: 9:30-10:00 AM

10:00-11:00 AM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

Linking Organizational Knowledge and Learning
Betty Collis, Univ. of Twente, The Netherlands

PINNI BLDG., PAAVO KOLI/Full: SysRes

- Tools** **A Navigation Path Planning Assistant for Web-based Learning**
Ryoichi Suzuki, Shinobu Hasegawa, Akihiro Kashiara, and Jun'ichi Toyoda, Osaka Univ., Japan
- Infra** **Students' Assessment in Computer-Supported Cooperative Project-Based Learning Environments**
Flávia Santoro, Univ. Federal do Rio de Janeiro, Brazil; Neide Santos, Univ. do Estado do Rio de Janeiro, Brazil; Marcos Borges, Univ. Federal do Rio de Janeiro, Brazil

UNIV. MAIN BLDG., D11/Full: CES

- Learn** **Dialogic Knowledge Construction as the Crucial Issue in Network-Based Learning in Vocational Education**
Helena Aarnio and Jouni Enqvist, Häme Polytechnic, Finland
- Learn** **Guidelines for Network Based Education in Vocational Schools**
Janette Moreno, Marika Helenius, and Jarmo Viteli, Univ. of Tampere, Finland

UNIV. MAIN BLDG., TYT Auditorium/Brief: Other

- Tools** **Streaming Video Cases for the Support of Preservice Teacher Education**
Doug Williams, Susan Lyman, Mary Jane Ford, and Sally Dobyns, Univ. of Louisiana at Lafayette
- Tools** **An expert authoring tool for dynamic scenarios**
Antonio Cisternino, Enrico Del Cioppo, Paolo Marotta, Giuliano Pacini, and Maria Simi, Univ. of Pisa, Italy
- Tools** **Distance Education Creating an Environment for All: Content Accessibility - Tools, Techniques, and Methods**
David Williamson, Indiana Univ. Purdue Univ. Indianapolis, USA

UNIV. MAIN BLDG., A2A/Full: SysRes

- Infra** **Transforming Educational Management In a Networked Institute: Networked Educational Management**
Philip Uys, Massey Univ./Inst. for Networked Education in Africa, New Zealand
- Infra** **Architectural Aspects of a Web-based ITS for Teaching New Information Technologies**
Jim Prentzas, Constantinos Koutsojiannis, Ioannis Hatzilygeroudis, Dimitrios Giakovis, and Spiros Vathis, Univ. of Patras, Greece

UNIV. MAIN BLDG., D10 B/Full: SysRes

- Cases** **Creating and Supporting Online Learning Communities**
Philip Barker, Univ. of Teesside, UK
- Cases** **Enthusiasm Meets Experience: Collaboration of two communities through computer conferencing**
Pentti Hietala, Univ. of Tampere, Finland

PINNI BLDG., 0081/Full: Cases

- Cases** **The development of an online course for a virtual university**
Claire Bradley and Tom Boyle, Univ. of North London, England
- Cases** **Virtual Museums from Four Directions: An Emerging Model for School-Museum Collaboration**
Mark Christal, Univ. of Texas, USA; Marty de Montano, Smithsonian National Museum of the American Indian, USA; Paul Resta and Loriene Roy, Univ. of Texas, USA

UNIV. MAIN BLDG., D16/Full: Cases

- Cases** **DNAexplorer: Computer facilitated learning of bioinformatics using a situated model**
Gregor Kennedy, Terry Judd, Mike Keppell, Carol Ginns, and Brendon Crabb, Univ. of Melbourne, Australia
- Cases** **Web teaching of SQL: A five years experiment**
Yolaine Bourda, Supélec, France

UNIV. MAIN BLDG., D17/Full: SysRes

- Tools** **FutureBoard: Supporting Collaborative Design Activities**
Yuhei Yamauchi, IBARAKI Univ., Japan; Takeshi Sunaga and Yumiko Nagai, Tama Art Univ., Japan
- Tools** **The Learning Net - An Interactive Representation of Shared Knowledge**
Martin Wessner, Torsten Holmer, and Hans-Rüdiger Pfister, GMD-IPSI, Germany

TAMPERE HALL, STUDIO/Full: CES

- Tools** **Image Analysis and Teaching the Concept of Function**
Steven Tanimoto, Univ. of Washington, USA
- HCI** **The relationship Between performance in Virtual Course and Thinking Styles, Gender, and ICT Experience**
Nehama Shany, Ort Israel, Israel; Rafi Nachmias, Tel-Aviv Univ., Israel

UNIV. MAIN BLDG., A3/Full: SysRes

- Tools** **Multimedia Learning Systems based on IEEE Learning Objects Metadata (LOM)**
Andreas Holzinger, Graz Univ., Austria; Thomas Kleinberger, Tecmath AG, Germany; Paul Müller, Univ. of Kaiserslautern, Germany
- Learn** **TRIANGLE: A Multi-Media test-bed for examining incidental learning, motivation and the Tamagotchi-Effect within a Game-Show like Computer Based Learning Module**
Andreas Holzinger, Graz Univ., Austria; Arnold Pichler, Wolfgang Almer, and Hermann Maurer, Graz Univ. of Technology, Austria

UNIV. MAIN BLDG., A4/Full: SysRes

- Tools** **The Essen Learning Model - A Step Towards a Representation of Learning Objectives**
Markus Bick, Jan M. Pawlowski, and Patrick Veith, Univ. of Essen, Germany
- Tools** **VoiceXML Editor: A Workbench for Investigating Voiced-Based Applications**
Janet Hartman and Joaquin Vila, Illinois State Univ., USA

PINNI BLDG., 0078/Full: CES

- HCI** **Interaction Evokes Reflection: Learning Efficiency in Spatial Visualization**
Glenn Smith, State Univ. of New York at Stony Brook, USA
- Learn** **Teaching Over the Web versus Face to Face**
Glenn Smith and David Ferguson, State Univ. of New York at Stony Brook, USA; Mieke Caris, Adelphi Univ., The Netherlands

UNIV. MAIN BLDG., Computer Room 4/Interactive Session

Constructing a WebQuest: An Inquiry-based Solution for the Responsible Use of the Internet
Maureen Yoder, Lesley Univ., USA; Catherine Collier, Shirley School District - Massachusetts, USA

11:15 AM-12:15 PM

UNIV. MAIN BLDG., D10 A/Panel (1 hour)

Designing Case-Based Hypermedia Learning Environments for Problem Solving Across Professional Fields
Louis Semrau, Arkansas State Univ., USA; Gail Fitzgerald, Univ. of Missouri-Columbia, USA; Jens Riedel, Univ. Hospital Heidelberg, Germany

PINNI BLDG., PAAVO KOLI/Brief: NewDev

- Cases** **Algorithm Visualization using QuickTime® Movies**
Jay Anderson, Franklin and Marshall College, USA
- Cases** **Assessment of class organization based on the computer skill level**
Michio Nakanishi and Akira Harada, Osaka Univ., Japan
- Cases** **Innovations in Mobile Learning**
Jarmo Levonen, Univ. of Tampere, Finland

UNIV. MAIN BLDG., D11/Brief: Other

- Learn** **Epistemological Development: An Implicit Entailment of Constructivist Learning Environments**
David Jonassen and Rose Marra, Univ. of Missouri, USA

Concurrent Sessions – Friday, June 29

Learn **Limitations of Online Courses: Barriers to Supporting Constructive Learning**
Rose Marra and David Jonassen, Univ. of Missouri, USA

Tools **System Integration Tools for Working and Learning Environment: Universal Clipboard, FindCommander and ExMouse**
Tomoko Sagisaka and Tsutomu Munakata, Tamagawa Univ., Japan

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev

Learn **Constructivist Approach toward Designing IT-Based Constructivist Learning Activities**
Seng Chee Tan, Nanyang Technological Univ., Singapore

Learn **Training Preservice Teachers to Use Technology Intelligently: ThinkQuest for Tomorrow's Teachers (PT3) Grant**
Sue Eskridge, Univ. of the Pacific, USA; Robert Sibley, ThinkQuest, Inc., USA; Marilyn Draheim, Univ. of the Pacific, USA; Matthew Russell, Center for Evaluation and Research, USA; Carla Piper, Univ. of the Pacific, USA

Learn **Is the Web Too Powerful?**
Judith Walker and Quynh Le, Univ. of Tasmania, Australia

UNIV. MAIN BLDG., A2A/Brief: NewDev

Infra **An Intelligent tutoring system: Smart Tutor**
Jie Zhang, Bruce Cheung, and Lucas Hui, The Univ. of Hong Kong, Hong Kong

Infra **Creating web-based programs for international delivery: Curriculum and faculty concerns**
A.W. Strickland, Larry Harris, T.C. Mattocks, Jane Strickland, and Dorothy Sammons, Idaho State Univ., USA

Infra **Integrating a course delivery platform with information, student management and administrative systems**
Anne A'Herran, James Cook Univ., Australia

UNIV. MAIN BLDG., D10 B/Brief: NewDev

Learn **Application of Virtual Reality to the periodic table for chemistry education**
Park JongSeok, Kim JaeHyun, and Ryu Haiil, Kongju National Univ., Republic of Korea

Learn **Self-regulated learning as a strategy for enhancing the effectiveness of adult online learning**
Cheng-Yen Wang, National Kaohsiung Normal Univ., Taiwan

Learn **Using computers in the programs of qualifying teachers of Arabic in the faculties of education in Egypt**
Abdelrahman Kamel Abdelrahman, Cairo Univ., Egypt

PINNI BLDG., 0081/Brief: NewDev

Cases **"Do no Harm" A First Measure of Effectiveness in Small Distance Education Programs**
Gerald "Jerry" Nelson, Casper College, USA

Learn **Creating A Web-based Graduate Core Course in Instructional Technology for International English Speaking Students**
Jane Strickland and Al Strickland, Idaho State Univ., USA

Cases **Teacher professional development through online netcourses: The design of a course to support scientific inquiry**
Michele Spitulnik, CILT - Univ. of California, Berkeley, USA

UNIV. MAIN BLDG., D16/Brief: NewDev

Cases **Designing Children's Electronic Textbooks With Distance Partners**
Norshuhada Shiratuddin and Monica Landoni, Univ. of Strathclyde, UK

Cases **Entrepreneur simulation**
Terry Schumacher, Rose-Hulman Inst. of Technology, USA

Cases **Quality in Web-supported Learning**
Jill Fresen, Univ. of Pretoria, South Africa

UNIV. MAIN BLDG., D17/Brief: Other

Learn **Design for Learnactivity in E-Learning**
Daniel Churchill, Inst. of Technical Education, Singapore; Philip Wong, National Inst. of Education, Singapore

HCI **It's Like Telling Myself A Story; Increasing Reading Comprehension Through Thoughtful Formatting and Presentation of Text in Digital Media**
Brock Dubbels, Univ. of Minnesota, USA

HCI **Web-based Instruction; A Paradox and Enigma in Instructional Paradigms and Design Principles**
Michael G. Kadlubowski, Northern Illinois Univ., USA

TAMPERE HALL, STUDIO/Brief: NewDev

Tools **An Architecture of an Electronic Education Market Using XML-Standards**
Jan M. Pawlowski, Markus Bick, and Patrick Veith, Univ. of Essen, Germany

Cases **Ludus Vitae: The Challenge of Educational Game Design**
Suzanne de Castell and Jennifer Jenson, Simon Fraser Univ., Canada

Tools **NetKnowledge Presenter and Content Reuse**
Ng S. T. Chong and Ney Andre de Mello Zunino, United Nations Univ./Inst. of Advanced Studies, Japan

UNIV. MAIN BLDG., A3/Brief: NewDev

Tools **Analitic Geometry on the Web**
Araceli Reyes, Instituto Tecnológico Autonomo de Mexico, Mexico

Tools **Cost Effective Electronic Course Development and Delivery via the Internet**
Konrad Michalski, Athabasca Univ., Canada

Tools **Electronic Collaboration Tools -Diffusion of an Innovation**
Brian Mackie and Jack Marchewka, Northern Illinois Univ., USA

UNIV. MAIN BLDG., A4/Brief: NewDev

Tools **Design and Implementation of Java and Flash Programs for Teaching and Learning Elementary Number Theory**
Yiu Kwong Man, The Hong Kong Institute of Education, Hong Kong

Tools **Using an in-house developed e-Learning portal at Ngee Ann Polytechnic to deliver an online course in Calculus**
Seu-Kea Lua and Hock Guan Tan, Ngee Ann Polytechnic, Singapore

Tools **Urania, the new technologies for the information and education in Science**
Leopoldo Benacchio, Federica Guadagnini, Luca Nobili, Melania Brolis, and Caterina Boccato, Astronomical Observatory of Padua, Italy

PINNI BLDG., 0078/Brief: NewDev

Learn **A technological framework for teachers' training through case-based reasoning and collaborative learning**
Michel Aubé, Denis Bédard, Robert David, and Denis Trudelle, Univ. de Sherbrooke, Canada

Learn **Implementing a Digital Campus: Nuisance or Nirvana**
Steve Schlough, Univ. of Wisconsin-Stout, USA

Learn **Socio-Cultural Factors Influencing Face-to-Face and Online Collaborative Knowledge Building: Preliminary Research Findings from Survey Data**
Cher Hill and Jan van Aalst, Simon Fraser Univ., Canada

Lunch Break: 12:15-1:30 PM

1:30-2:30 PM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

The Online Learning Alchemist: Strategies for Preventing Gold from Turning into Lead
Rod Sims, Deakin University, Australia

PINNI BLDG., PAAVO KOLI/Full: Cases

Cases **Building Online Community for Professional Development**
Bronwyn Stuckey and John Hedberg, Univ. of Wollongong, Australia

Cases **Developing a Collaborative Learning Environment in Physiology - Using an Online Architecture to Link Faculty and Institution Needs**
Helen Kavnoudias, Paul Fritze, Robert Kemm, and Williams Neil, Univ. of Melbourne, Australia

UNIV. MAIN BLDG., D11/Full: CES

Learn **Computer supported problem solving: Enhancing thinking skills in science**
Catherine McLoughlin and Rowan Hollingworth, Univ. of New England, Australia

Learn **Understanding the Quality of Students' Interactions through Computer Conferencing in Higher Education from the Social Constructivist Perspective**
Veronica Hendriks and Dorit Maor, Curtin Univ. of Technology, Australia

Concurrent Sessions – Friday, June 29

UNIV. MAIN BLDG., TYT Auditorium/Full: CES

Learn **Fostering Higher Order Thinking through Online Tasks**
Joe Luca, Edith Cowan Univ., Australia; Catherine McLoughlin, Univ. of New England, Australia

Learn **Time versus utility: What IT staff say about the educational use of the Web**
Judy Sheard, Margot Postema, Selby Markham, and John Hurst, Monash Univ., Australia

UNIV. MAIN BLDG., A2A/Full: SysRes

Infra **The Internet as a tool for a revolution in education in Africa: A dream or reality**
Nomusa Dlodlo, National Univ. of Science and Technology, Zimbabwe; Nompilo Sithole, Solusi Univ., Zimbabwe

Infra **Using Educational Dialogues to Design Systems for Learning**
John Cook, Univ. of North London, UK; Martin Oliver, Univ. College London, UK; Grainne Conole, Univ. of Bristol, UK

UNIV. MAIN BLDG., D10 B/Full: Cases

HCI **Scenario-based Design of Flexible Hypermedia Learning Environments**
Huberta Kritzenberger, Ronald Hartwig, and Michael Herczeg, Univ. of Luebeck, Germany

Learn **Collaborative Knowledge Building in Web-based Learning: Assessing the Quality of Dialogue**
Elsebeth Sorensen, Aalborg Univ., Denmark; Eugene Takle, Iowa State Univ., USA

PINNI BLDG., 0081/Full: CES

HCI **The usability of the Technology Acceptance Model in an attempt to predict teachers' computer use**
Johan van Braak, Vrije Univ. Brussel, Belgium

Cases **Multipoint Desktop Videoconferencing for Teacher Education: A Singapore Experience**
Chun Hu, Angela Wong, Leslie Sharpe, Lachlan Crawford, and Saravanan Gopinathan, National Inst. of Education, Singapore

UNIV. MAIN BLDG., D16/Full: Cases

Cases **Developing Learning Environments: Finnish Information Strategy for Education and Research 2000-2004**
Liisa Huovinen, Finnish Ministry of Education, Finland

Cases **Creating An Active Learning Environment Using Digital Video: What I Did and How I Did It**
Alfred Benney, Fairfield Univ., USA

UNIV. MAIN BLDG., D17/Full: SysRes

Tools **A Generator and a Meta Specification Language for Courseware**
Bernd Gaede, FORWISS, Germany; Herbert Stoyan, FAU Erlangen, Germany

Tools **New Media in the Design of a Learners' Dictionary**
Johann Gamper and Judith Knapp, European Academy Bolzano/Bozen, Italy

TAMPERE HALL, STUDIO/Full: SysRes

Tools **Extending The ARIADNE Web-based Learning Environment**
Rafael Van Durm and Erik Duval, K.U.Leuven, Belgium

Tools **Supporting Faculty in the design and structuring of Web-based courses**
Howard Freeman, Steve Ryan, and Jos Boys, De Montfort Univ., UK

UNIV. MAIN BLDG., A3/Full: SysRes

Tools **Developing Modular and Adaptable Courseware Using TeachML**
Frank Wehner and Lorz Alexander, Dresden Univ. of Technology, Germany

Tools **Drawing Together in the Classroom: An Application of the "cartable électronique" Project**
Christine Ferraris, Christian Martel, and Philippe Brunier, Equipe SysCom – Univ. de Savoie, France

UNIV. MAIN BLDG., A4/Full: SysRes

Tools **Student modeling for performance assessment using Bayesian network on web portfolios**
Chen-Chung Liu, Gwo-Dong Chen, and Chin-Yeh Wang, National Central Univ., Taiwan; Ching-Fen Pai, Fortune Inst. of Technology, Taiwan

Tools **Universitas 21 Learning Resource Catalogue using IMS Metadata and a New Classification of Learning Objects**
Tony Koppi and Lisa Hodgson, Univ. of New South Wales, Australia

PINNI BLDG., 0078/Full: CES

Learn **Collaborative knowledge construction in electronic forums and integrative scenarios development as bridges between the socioconstructivist discourse and its application in educational practice: An exploratory research with Preservice teachers**
Jacques Viens, Univ. de Montréal, Canada; Geneviève Légaré, Concordia Univ., Canada

Learn **Investigating processes of social knowledge construction in online environments**
Catherine McLoughlin, Univ. of New England, Australia; Joe Luca, Edith Cowan Univ., Australia

UNIV. MAIN BLDG., Computer Room 4/Interactive Session

CD-ROM of Teaching Greek, Irish and Finnish History of Arts in Secondary Education

Jukka Maki and Nick Gratsounis, The Zirdis Schools, Greece

Beverage Break: 2:30-2:45 PM

2:45-3:45 PM

UNIV. MAIN BLDG., D10 A/Panel (1 hour)

Learner Led Learning in an Online Community

Wim Veen, Delft Univ. of Technology, The Netherlands; Betty Collis, Univ. of Twente, The Netherlands; Sicco Santema, and Ralph Genang, Delft Univ. of Technology, The Netherlands

PINNI BLDG., PAAVO KOLI/Brief: NewDev

Cases **A Network Learning Environment to Support Control Engineering Learning**
Juha Lindfors, Univ. of Oulu, Finland

Cases **Mobile technology and the social context of distance learning**
Carl Johan Orre, Ulf Hedestig, and Victor Kaptelinin, Umea Univ., Sweden

Tools **A distributed computer-based screening system for learning disabilities with centralised data processing**
Athanasios Protopapas, Inst. for Language and Speech Processing, Greece; Michalis Karamanis, Hellenic Paedagogical Inst., Greece; Christos Skaloumbakas, and Dimitrios Nikolopoulos, Inst. for Language and Speech Processing, Greece; Anna Kriba, Hellenic Paedagogical Inst., Greece

UNIV. MAIN BLDG., D11/Brief: NewDev

HCI **Examining Social Presence in Online Courses**
Jennifer Richardson and Karen Swan, Univ. at Albany/SUNY, USA

HCI **Infusing Technology in Our Teacher Education Courses**
Maria Victoria Perez Cereijo, Tandra Tyler-Wood, and Jane Pemberton, Univ. of North Texas, USA

HCI **Knowledge Elicitation Systems: Reflective Technology for personal learning**
Steven Coombs, Sonoma State Univ., USA

UNIV. MAIN BLDG., TYT Auditorium/Special Finnish R&D Presentations (continued at 4 PM)

Innovative Research from Tekes eLearning Program USIX (Finnish R&D projects supported by the Finnish Technology Agency)

Tools **Ladder - the Virtual Club for Teenage Writers**
Päivi Paananen, Arkkivolti Partnership/Partner and Pirkko Mäkimattila, Media Company Rajapinta/Manager, Finland

Tools **Individual and Collaborative Learning in One Learning Environment**
Matti Vitikainen, Managing Director, Edusolutions Oy (Ltd.), Finland

Tools **Crafting Media Objects for Cooperative Language Learning**
Pekka Lehtiö, Managing Director, Lingonet Oy, Finland

Tools **The value chains in distance technology for small businesses and education**
Harri Keiho, Project Manager, Pori School of Technology and Economics affiliated to Tampere Univ. of Technology and Turku School of Economics and Business Administration, Finland

UNIV. MAIN BLDG., D10 B/Brief: NewDev

Cases **Development of Technology Based Distance Learning: A Case Study of the Centre for Commerce and Administrative Studies at Athabasca University**
David Annand, Athabasca Univ., Canada

Cases **Using Virtual Environments to Construct Competitive Advantage for Virtual Communities**
Jenny Ure, Aberdeen Univ., Scotland UK; Julian Malins, Robert Gordon Univ., Scotland UK; Gudrun Jaegersberg, Zwickau Hochschule, Germany

Concurrent Sessions – Friday, June 29

Cases Laptops, Learning Outcomes, and Abayas
Robin McGrew-Zoubi, Winnifred Procyshen, and Mohammed El Darabie, Zayed Univ., United Arab Emirates

PINNI BLDG., 0081/Brief: NewDev

Learn Experienced Teachers as Novice Knowledge Builders in Online and Face-to-Face Environments: Informing Professional Development
Jan van Aalst and Cher Hill, Simon Fraser Univ., Canada

Learn Infusing Information Technology into Preservice teacher education. No computer lab, no budget for software, no time at the University. No problem
Simao Pedro Marinho, Pontifical Catholic Univ. of Minas Gerais, Brazil

Learn eLearning in Education at Vocational Teacher Education College in Hämeenlinna
Outi Kallioinen and Auli Härkönen, Häme Polytechnic, Finland

UNIV. MAIN BLDG., D16/Brief: NewDev

Cases Computer Mediated Communication Application in Vocational English in Hong Kong
Esther Chan, Hong Kong Inst. of Vocational Education (Chai Wan), Hong Kong

Cases Someone Initiated - Someone Understood
Lois Hendrickson, Getronics Government Solutions, USA; Peter Mecca, DoDEA, USA

Cases e-Learning for Corporate Training: A Review of the Literature
Randall Alford and Judith Strother, Florida Inst. of Technology, USA

UNIV. MAIN BLDG., D17/Brief: NewDev

Infra Architectural Concept for an Integrated Learning Platform using Learning Object Metadata
Christian Ruess, Jan Hoerd, Reinhold Eberhardt, and Michael Wolf, DaimlerChrysler AG, Germany

Infra Crossing Boundaries: An Integrative Architecture for Campus-Wide Digital Libraries in Research Universities
Barbara Dewey, Univ. of Tennessee, USA

Infra Networking Schools: What Services do we Need?
Patrick Barrett, Catholic Education Office-Parramatta, Australia

TAMPERE HALL, STUDIO/Brief: NewDev

Learn eLearning community - Hämeenlinna model
Leena Vainio, Häme Polytechnic, Finland; Kirsti Mäensivu, City of Hämeenlinna, Finland; Martti Piipari, Univ. of Tampere, Finland; Jusri de Vries, Häme Polytechnic, Finland; Jarmo Viteli, Univ. of Tampere, Finland

Learn Application of Cooperative Learning Environment in Developing Students' Environmental Decision-Making Skills
Kai Pata and Tago Sarapuu, Univ. of Tartu, Estonia

Learn OrtoWeb - Instructor Networking over Internet for Orthodox Religious Education
Risto Aikonen, University of Joensuu, Finland

UNIV. MAIN BLDG., A3/Brief: NewDev

Tools Exemplary-based learning: a new way of Web-based training
Andriani Kraan and Henk Sligte, Univ. van Amsterdam, The Netherlands

Tools Initial Design of an Interactive Learning Environment for Statistics
Rob Weitz, Columbia Univ., USA

Tools The Impact of Mobile Computing in an Accountancy Course
Dorene Yeo, NgeeAnn Polytechnic, Rep. of Singapore

UNIV. MAIN BLDG., A4/Brief: NewDev

Tools Development of interactive online cases in a medical school: A case study in Pediatric Genetics
Anju Relan and Pedro Sanchez, School of Medicine, UCLA, USA

Tools Education Portal for a K - Economy
Nair Vijay, Planetklik Sdn Bhd, Malaysia

Tools Secure & Credible E-Learning Systems
Dennis Anderson, Pace Univ., USA; Sabah Jassim, Univ. of Buckingham, UK

PINNI BLDG., 0078/Brief: NewDev

Learn The Information Revolution and The Future Role of Educators
Michael Szabo, Univ. of Alberta, Canada

Tools Transforming Educational Media Through Imperceptible Digital Watermarking Technologies
Tammy McGraw, Appalachian Educational Laboratory, USA

Tools SPicE Project: Web-based Instruction in Acquiring Science Process Skills
Rohaida Mohd-Saat, Universiti Putra Malaysia, Malaysia

4:00-5:00 PM

UNIV. MAIN BLDG., D10 A/Full: SysRes

Tools A Framework for Creating Counterexamples in Discovery Learning Environment
Tomoya Horiguchi, Kobe Univ. of Mercantile Marine, Japan; Tsukasa Hirashima, Kyushu Inst. of Technology, Japan

Tools Application of Mobile agents in Web-based Learning environment
Hong Hong, Dr Kinshuk, and Xiaoqin He, Massey Univ., New Zealand; Ashok Patel, De Montfort Univ., UK; Chris Jesshope, Massey Univ., New Zealand

PINNI BLDG., PAAVO KOLI/Full: CES

Learn Emergent-collaboration in Web-supported academic courses
Rafi Nachmias, David Mioduser, Avigail Oren, and Judith Ram, Tel-Aviv Univ., Israel

Learn Motivation and Participation in Inquiry Learning within a Networked Learning Environment
Anna Tapola, Kai Hakkarainen, Juha Syri, Lasse Lipponen, and Markku Niemivirta, Univ. of Helsinki, Finland

UNIV. MAIN BLDG., D11/Full: CES

Tools A Review of Virtual Learning Environments From a Learner Centred Approach
Suzanne Hardy and Megan Quentin-Baxter, Univ. of Newcastle, UK

Learn Developing technology-supported inquiry practices in two comprehensive school classrooms
Hanna Salovaara and Piritta Salo, Univ. of Oulu, Finland; Marjaana Rahikainen, Univ. of Turku, Finland; Lasse Lipponen, Univ. of Helsinki, Finland; Sanna Järvelä, Univ. of Oulu, Finland

UNIV. MAIN BLDG., TYT Auditorium/Special Finnish R&D Presentations (continued from 2:45 PM)

*Innovative Research from Tekes eLearning Program USIX
Finnish R&D projects supported by the Finnish Technology Agency)*

Tools Content Management and Standardization in eLearning Solutions-Case Evolution-plan
Esko Liimatta, R&D Manager, R5 Vision, Finland

Tools Virtual Presence, new dimensions in e-Learning-Case study: "Virtual Language Lab" Teleste Educational's co-development project with California State University
Andrzej Styrz, Marketing Manager, Teleste Educational Oy, Finland

Tools Open Learning Environment Project: Research, Development and Experimentation
Seppo Pohjolainen, Hypermedia Laboratory, Tampere Univ. of Technology, Finland

UNIV. MAIN BLDG., A4/Brief: Other

Tools Interactive Virtual Electronics Lab
Tania Vassileva, Technical Univ., Bulgaria; Ivan Furnadziev, Technical Univ., Bulgaria; Vassilij Tchoumatchenko, Technical Univ., Bulgaria

Tools The Use of the Dedicated Web Site to Develop and Maintain Communications Skills Among Business School Students and Graduates
Beverly Block and Mark Comstock, Missouri Southern State College School of Business Admin., USA

Tools The third generation of computerized counseling
Jari Laami, Helsinki School of Economics and Business Admin., Finland

UNIV. MAIN BLDG., D10 B/Full: Cases

Cases The role of visual expression in the genesis of epistemological interpretations:
Olga Kritskaya, Michigan State Univ., USA

Cases Training Virtual Tutors: The JOB experience
Ruth Garner, Learn Net Advisors & Research, UK; Margaret Dilloway, Bourneville College of Further Education, UK

PINNI BLDG., 0081/Full: SysRes

Cases Scaffolding Performance in EPSSs: Bridging Theory and Practice
Michael Hannafin, Univ. of Georgia, USA; James McCarthy, Sonalysts, USA; Kathleen Hannafin, Univ. of Georgia, USA; Paul Radtke, NAWCTSD, USA

Tools Countermeasures against Security Breaches in Web-based Training Environments
Edgar Weippl, Software Competence Center Hagenberg, Austria

Concurrent Sessions

UNIV. MAIN BLDG., D16/Full: SysRes

Infra A model for online unit development: Necessity, the catalyst for invention
Maria Northcote and Tony Fetherston, Edith Cowan Univ., Australia

Infra The Logistics Knowledge Portal: Gateway to More Individualized Learning in Logistics

Gaby Neumann, Univ. of Magdeburg, Germany; Stanislaw Krzyzaniak, Inst. of Logistics and Warehousing, Poland; Carl Christian Lassen, Technical Univ. of Denmark

UNIV. MAIN BLDG., D17/Full: SysRes

Tools MediBook: Combining semantic networks with metadata for learning resources to build a web based learning system

Achim Steinacker, Andreas Faatz, Cornelia Seeberg, Ivica Rimac, and Stefan Hoermann, KOM, TU Darmstadt, Germany

Tools EM2 - an Educational Meta-data Management tool

Panagiota Karadimitriou, Athanasios Papageorgiou, Charalampos Karagiannidis, and Demetrios Sampson, ITI-CERTH, Greece

TAMPERE HALL, STUDIO/Full: SysRes

Infra Improving Web-based Training using an XML content base

Simon G. Wiest, Univ. of Tuebingen, Germany; Andreas Zell, Univ. of Tuebingen, Germany

HCI Videogames and Gameplay

Matthew Southern, Liverpool John Moores Univ., UK

UNIV. MAIN BLDG., A3/Full: SysRes

Tools A Mentor finder based on student preference and learning status for web-based learning systems

Gwo-Dong Chen, National Central Univ., Taiwan; Chin-Yeh Wang, National Central Univ., Taiwan; Chen-Chung Liu, National Central Univ., Taiwan

Tools Current Practice in Designing Training for Complex Skills: Implications for Design and Evaluation of ADAPT-IT

Deniz Eseryel, Univ. of Bergen/Syracuse Univ., Norway/USA; Marian Schuervan Blanken, National Aerospace Laboratory (NLR), The Netherlands; J. Michael Spector, Univ. of Bergen/Syracuse Univ., Norway/Syracuse

PINNI BLDG., 0078/Full: SysRes

Cases CRACTIC: Lesson learned from the implementation of a socioconstructivist approach in a multiple classrooms collaborative project using the Web

Jacques Viens, Univ. de Montréal, Canada; Allen Istvanffy, Mc Gill Univ., Canada; Sonia Rioux, Univ. de Montréal, Canada; Alain Breuleux, Mc Gill Univ., Canada; Pierre Bordeleau, Univ. de Montréal, Canada

Tools ITCOLE Project - Designing Innovative Technology for Collaborative Learning and Knowledge Building

Teemu Leinonen, Univ. of Art and Design Helsinki, Finland; Kai Hakkarainen, Univ. of Helsinki, Finland; Wolfgang Appelt, Forschungszentrum Informationstechnik GmbH, Germany; Antonio Gómez-Skarmetav, Univ. of Murcia, Spain; Samu Leinonen, Univ. of Art and Design Helsinki, Finland

Concurrent Sessions

SATURDAY JUNE 30

8:30-9:30 AM

TAMPERE HALL MAIN AUDITORIUM

Keynote

Guidelines For Designing and Developing Online e-Learning Courses Including Intellectual Property Considerations

Gary Bitter, Arizona State University, USA

Beverage Break: 9:30-10:00 AM

10:00-11:00 AM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

The Galileo Educational Network: Bringing Learning to Learners

Pat Clifford & Sharon Friesen, Galileo Educational Network, Canada

PINNI BLDG., PAAVO KOLI/Brief: Other

Learn A Study of How Technology Influences Interior Design of Primary School

Rong-Jyue Fang, National Kaohsiung Normal Univ., Taiwan; Sun-Der Su, National Ping-Tong Teachers' College, Taiwan; Hung-Jen Yang, Tai-Shen Lee, National and Yeong-Diann Wang, National Kaohsiung Normal Univ., Taiwan

Learn Mentoring at a Distance: Helping Adult Learners Succeed in an Online Learning Environment

Vincent E. Shrader, Western Governors Univ., USA; Mingming Jiang, Western Governors Univ., USA

Learn Study of thermal phenomena in junior high school. A new technology based learning environment

Panagiotis Dimitriadis, Lamprini Papatsimpa, and George Kalkanis, Univ. of Athens, Greece

UNIV. MAIN BLDG., D11/Full: CES

Learn Digital Audio/Video in Multimedia: New Challenge for Educators

James E. Yao, Texas A&M Univ.-Commerce, USA; Chang Liu, Northern Illinois Univ., USA

Learn Using Databases in Teaching Advanced Mathematics Courses

Mikhail Bouniaev, Southern Utah Univ., USA

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev

Infra Accessing Best-Match Learning Resources in WBT Environment

Denis Helic, Hermann Maurer, and Nick Scherbakov, TU Graz, Austria

Infra Developing and Deploying Online Courses with JCourse

Willie Wheeler, Carnegie Mellon Univ., USA; David Danks, Univ. of California, San Diego, USA; Joseph Ramsey, Richard Scheines, and Joel Smith, Carnegie Mellon Univ., USA

Infra Potential Energy Courseware: A Prototype for Scientific Experiments utilizing the WWLab System

Motoyuki Saisho, Prefectural Univ. of Kumamoto, Japan; Yutaka Tsutsumi, Kumamoto Gakuen Univ., Japan; Ryouji Matsuno, Prefectural Univ. of Kumamoto, Japan

UNIV. MAIN BLDG., A2A/Brief: NewDev

Learn Designing Collaborative Teaching and Learning in Virtual Environments for Large Scale International Participation

Friedrich Scheuermann, Univ. of Innsbruck, Austria; Ken Larsson, Stockholm Univ./Royal Inst. of Technology, Sweden; Roxanne Toto, The Pennsylvania State Univ., USA

Tools FAIRWIS Usage for Virtual Learning in Student Micro Enterprises

Emanuela Pauselli and Alessandro D'Atri, LUISS, Italy; Paolo Buono, Univ. di Bari, Italy; Maria Francesca Costabile, Univ. di Bari, Italy; Matthias Hemmje, GMD, Germany

Cases Ghost Movies: Augmented Reality and Educational Narratives

Jay Bolter, Blair MacIntyre, and Kavita Philip, Georgia Inst. of Technology, USA

UNIV. MAIN BLDG., D10 B/Brief: Other

Cases Coaching medical academics in multimedia and Online teaching and learning principles

Mike Keppell, The Univ. of Melbourne, Australia

Learn Pedagogical issues on using Web based Instruction

Isidora Mitchell, Mt. Hope Junir Secondary, Trinidad and Tobago

Concurrent Sessions – Saturday, June 30

PINNI BLDG., 0081/Brief: Other

- Cases** **Capturing History: How Technology Helped Middle School Students Learn History**
Melinda Wolfrum, Leslie Miller, and Donna Olde Smith, Rice Univ., USA
- Cases** **Interaction in Online Courses - Case Studies**
Amy S. C. Leh, California State Univ. - San Bernardino, USA
- Cases** **Computer Based Video Production**
Bogdan Dugonik and Matjaz Debevc, Faculty of EE&CS Maribor, Slovenia

UNIV. MAIN BLDG., D16/Brief: Other

- Cases** **De Bono's Six Thinking Hats Technique: A Communication Metaphor in Computer Mediated Classrooms.**
Karen Belfer, Technical Univ. of British Columbia, Canada
- Cases** **E-Learning-on-the-job in the Steel Industry**
Esther Oprins and Pieter de Vries, CINOP, Netherlands
- Cases** **Teaching Together but Apart: A New Model for Teachers' Professional Development in the Information Age**
Edna Yaffe, The Open Univ. of Israel, Israel

UNIV. MAIN BLDG., D17/Brief: Other

- Tools** **A Multimedia Tool for the Classroom**
Robert Whelan and Elizabeth McAlpin, NYU, USA
- Cases** **One-to-One Technology: A Model for 21st Century Education? The Reality, Process and Results of Instituting**
Jerry Crystal, Bloomfield Connecticut Board of Education, USA
- Cases** **The Virtual Planetarium: The use and improvement of a Website as a case study of collaboration between Scientists, School Teachers and Students**
Leopoldo Benacchio, Melania Brolis, and Giovanna Mistrello, Padova Astronomical Observatory, Italy

UNIV. MAIN BLDG., A1/Brief: NewDev

- Tools** **Animated Agents for Language Conversation Training**
Helmut Prendinger and Mitsuru Ishizuka, Univ. of Tokyo, Japan
- Tools** **Educational Applications of Conversational Agents**
Jeremy Baer, Univ. of Washington, USA

UNIV. MAIN BLDG., A3/Brief: NewDev

- Tools** **Development and Evaluation of a Web-based Learning Program for Pharmaceutical Management in Thailand**
Maneerat R. Layton, Supatra Chadbunchachai, and Sumon Sakolchai, Khon Kaen Univ., Thailand
- Tools** **The Application for Hand-written Recognition in order to Search on Electric KANJI Dictionaries for Non-Japanese Learners**
Shinichi Fujita, Kazuto Yamada, and Koji Iida, Waseda Univ., Japan; ChunChen Lin, Univ. of Tokyo Foreign Language, Japan; Seinosuke Narita, Waseda Univ., Japan
- Tools** **The Hypermedia as Supporting Tool for the Learning Process**
Adriana Claudia Fantini and Marta Isabel Dans, Univ. Nacional de la Patagonia, Argentina

UNIV. MAIN BLDG., A4/Brief: Other

- Learn** **Issues of the Online Program Planning Process**
Lise Patton, North Carolina State Univ., USA; Susan Hines, Eduprise, USA
- Cases** **Online Workshops as a Tool for Creating Professional Learning Communities**
Wim Veen and Marie-Jose Verkroost, Delft Univ. of Technology, The Netherlands; Santi Scimeca, European Schoolnet, Belgium
- Learn** **Trends in Computer Education and Training**
Janet Vijaya Light and Bhuvaneshwari A., Avinashilingam Univ., India

PINNI BLDG., 0078/Brief: Other

- HCI** **Interaction and learning - Learning results in multimedia geometry -game**
Harri Ketamo, Pori School of Technology and Economics, Finland
- Tools** **Learning Data Mining - A Tool for Understanding Knowledge Discovery and Qualitative Data Analysis**
Satoru Fujitani, Mejiro Univ. College, Japan
- HCI** **Strategies Freshmen Use to Learn New Computer Software**
M.O. Thirunarayanan and Aixa Perez-Prado, Florida International Univ., USA

11:15 AM-12:15 PM

UNIV. MAIN BLDG., D10 A/Full: SysRes

- Cases** **Computer Network Based Learning in Project Group Environment**
Raymond Silfver, Espoo-Vantaa Inst. of Technology, Finland
- Cases** **PERIGRAMMA - A system for the support of people with cognitive or movement impairments working in secretarial positions**
Panagiotis Destounis, John Garofalakis, Theodore Kondilis, George Mavritsakis, and Maria Rigou, Computer Technology Inst., Greece

PINNI BLDG., PAAVO KOLI/Full: Other

- HCI** **A Computer-Managed Instruction Module: Metric Instruction for Preservice Elementary Teachers**
A W Strickland, Jane Strickland, Martin Horejsi, and John Springer, Idaho State Univ., USA
- HCI** **Measurement and Modelling for Dynamical Human cognition motion**
Noboru Ashida, and Atsushi Tsubokura, Osaka Electro-Communication Univ., Japan; Kagemasa Kozuki, Konami Co., Japan; Katsunori Nakamura, and Katsuji Higashio, Heian Jogakuin Univ., Japan

UNIV. MAIN BLDG., A1/Full: Other

- Learn** **Situation Learning: A New Approach to Knowledge Mediation**
Hermann Maurer and Maja Pivec, Graz Univ. of Technology, Austria
- Learn** **The Implementation of E-Learning in UK Higher Education**
Terence Goodison, Delta Inst., Univ. of Wolverhampton, UK

UNIV. MAIN BLDG., TYT Auditorium/Full: Other

- Learn** **Constructing the Online Classroom: Interaction in the Synchronous Chat Room**
Florence Sullivan, Teachers College, Columbia Univ., USA
- Learn** **Promoting Self-Regulated Learning in an Online Environment**
Mark McMahon and Ron Oliver, Edith Cowan Univ., Australia

UNIV. MAIN BLDG., A2A/Full: CES

- Learn** **Developing a Typology of Students in a Web-based Instruction course**
Patricia Medici and Craig Montgomerie, Univ. of Alberta, Canada
- Learn** **Extending the IEEE - LTSA**
Jörg Voskamp and Sybille Hambach, Fraunhofer-Inst. for Computer Graphics Rostock, Germany

UNIV. MAIN BLDG., D10 B/Full: Other

- Cases** **Distributed Group Design Process: Lessons Learned**
Deniz Eseryel and Radha Ganesan, Syracuse Univ., USA
- Cases** **Hypermedia-Based CSCL system**
Yacine Lafffi, Departement d'informatique, Algeria

PINNI BLDG., 0081/Full: SysRes

- Cases** **Anthropology 491: Teaching an Online laboratory course.**
Dorothy Sammons, E.S. Lohse, and Robert Schadler, Idaho State Univ., USA
- Cases** **Deconstruction of Socio-technical Information Systems with Virtual Exploration Environments as a Method of Teaching Informatics**
Johann S. Magenheim, Univ. of Paderborn, Germany

UNIV. MAIN BLDG., D16/Full: SysRes

- Cases** **A Web-based Intelligent Agent Who Manages Mixed Initiative Dialog to Optimize Information Retrieval**
Natalie Person, Rhodes College, USA; Barry Gholson, Scotty Craig, and Xiangen Hu, Univ. of Memphis, USA; Craig Stewart, Thoughtware Technologies, Inc., USA
- Cases** **Preparing the Teachers of the Information Society in Greece**
Giorgos Papadopoulos, Eleni Houssou, Barbara Ioannou, and Michalis Karamanis, Hellenic Pedagogical Inst., Greece

UNIV. MAIN BLDG., D17/Full: SysRes

- Tools** **CoBrowser: Surfing the Web Using A Standard Browser**
Kurt Maly, Mohammad Zubair, and Li Li, Old Dominion Univ., USA
- Tools** **Magellan, the Paderborn Approach for Distributed Knowledge Organization**
Thorsten Hampel, Heinz Nixdorf Inst., Germany

UNIV. MAIN BLDG., D11/Full: SysRes

- Tools** **Interactive History with Learning Affordance for Knowledge Construction in Web-based Learning**
Akihiro Kashihara, Masanao Sakamoto, Shinobu Hasegawa, and Junichi Toyoda, Osaka Univ., Japan
- Tools** **The HyperScript Authoring Environment: An Integrated Approach for Producing, Maintaining, and Using Multimedia Lecture Material**
Andreas Brennecke, and Harald Selke, Univ. of Paderborn, Germany

Concurrent Sessions – Saturday, June 30

UNIV. MAIN BLDG., A3/Full: SysRes

Cases The NCTM Illuminations Website Project: Changing the Vision of School Mathematics

Eric Hart, Western Michigan Univ. & Maharishi Univ., USA; Brian Keller, Michigan State Univ., USA

Tools A Local Indexing for Web-based Learning Resources

Shinobu Hasegawa, Akihiro Kashihara, and Jun'ich Toyoda, Osaka Univ., Japan

UNIV. MAIN BLDG., A4/Full: SysRes

Tools Aspects of collaborative learning environment using distributed virtual environments

Christos Bouras, Univ. of Patras, Greece; Vasilis Triantafyllou, and Thrasivoulos Tsiatsos, Computer Technology Inst., Greece

Tools Preparing oral examinations of mathematical domains with the help of a knowledge-based dialogue system

Peter Schmidt, Univ. of Bonn, Germany

PINNI BLDG., 0078/Full: CES

Learn Relationships among Learning Characteristics, Course Design Factors, and Student Perceptions of Learning Online

Karen Swan, Univ. at Albany/SUNY, USA

Learn Teaching Pedagogy and Computer-facilitated Instruction: The Results of a National Survey in the United States

Debra Gohagan, Minnesota State Univ., Mankato, USA

Lunch Break: 12:15-1:30 PM

1:30-2:30 PM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

Dynamic tools for problem-based learning

Erno Lehtinen, Univ. of Turku, Finland

PINNI BLDG., PAAVO KOLI/Brief: Other

Learn Do new media need new didactic methods?

Patrick Kunz, ETH Swiss Federal Inst. of Technology, Switzerland

Learn Exploring the Efficacy of Student Moderators

Liam Rourke and Terry Anderson, Univ. of Alberta, Canada

Learn Web-based Training and Corporate American

Doris Lee and Terri Chalmers, Penn State Univ., USA

UNIV. MAIN BLDG., D11/Brief: Other

Learn Online Pedagogy as a Challenge to the Traditional Distance Education Paradigm

Jacquelin McDonald, and Shirley Reushle, Univ. of Southern Queensland, Australia

Learn Teaching And Learning In A Technological Age: Transforming Learning Through Teacher Training

Gerald W. Burgess, Barbara D. Holmes, and Bette Seeley, Albany State Univ., USA

Learn Technology as Text

Mark McMahon and Tony Fetherston, Edith Cowan Univ., Australia

UNIV. MAIN BLDG., TYT Auditorium/Brief: ProjOpp

Cases Computerizing College Composition

Joel Foreman, George Mason Univ., USA

Cases The Virtual Friends: An electronic discourse among preservice teachers and high school students with learning disabilities

Lea Kozminsky and Ulzan Goldstein, Kaye College of Education, Israel

UNIV. MAIN BLDG., A2A/Brief: ProjOpp

Infra A Framework for Self/Collaborative - Learning in the Internet Environment

Toshio Okamoto, Univ. of Electro-Communications, Japan

Infra Personalizing Digital Libraries for Learners

Su-Shing Chen, Othoniel Rodriguez, Chee-Yoong Choo, Hongchi Shi, and Yi Shang, Univ. of Missouri-Columbia, USA;

Infra Requirements and Management of IT Resources

George Pappas, Greek Pedagogical Inst., Greece; Petros Stefanias, NTUA, Greece

UNIV. MAIN BLDG., D10 B/Brief: Other

Cases A cost-effective way to teach scattered international students with the latest technology

Pekka Nieminen, Lappeenranta Univ. of Technology, Finland

Cases The Clipper Project: An Introduction to the Impact of Web-based Courses on Pre-Baccalaureate Students

Stephen Bronack and Tammy Chapman, Lehigh Univ., USA

Cases Using WebCT to supplement a distance learning class: student perceptions of effectiveness

Dorothy Sammons, Albert Strickland, and Charles Zimmerly, Idaho State Univ., USA

PINNI BLDG., 0081/Brief: Other

Cases The Canadian TeleLearning Network of Centres of Excellence:

A National, Multidisciplinary, Multisectoral Approach to Catalyzing Innovative Research and Effective Online Learning Practice
Joanne Curry, TeleLearning NCE, Canada

Cases The Effects of Strategies Instruction via Computer on Student Attitudes toward Mathematics Problem-Solving

Doehee Ahn, Dong-Eui Univ., South Korea

Cases Methodologies of distance invigilation to support distance education

Yanhua Cao, Peking Univ., China; Hongli Zhao, Peking Univ., China; Ke Chen, Peking Univ., China

UNIV. MAIN BLDG., D16/Brief: ProjOpp

Tools How To, and Why? What You Should Know About Learning Management Systems

Susan Hines and Jessamine Cooke-Plagwitz, Eduprise.com, USA

Cases Migration, Income and Employment Linkage in Ethiopia with Special Reference to Bahirdar Town

Faye Chemed, Arsi-Bale Rural Development, Ethiopia

Cases The Role of Exports in Economic Growth with Reference to Ethiopian Country

Faye Chemed, Arsi-Bale Rural Development, Ethiopia

UNIV. MAIN BLDG., D17/Brief: Other

Infra A survey of academic use of information technology

Helen Carter, Paul Else, Brian Ferry, Di Kelly, and Reihaneh Safavi-Naini, Univ. of Wollongong, Australia

Infra Broadband Multimedia for Distance Education via Satellite

Ioan Roxin, IUT Belfort-Montbelliard, France

Learn Collaborative activity: Using concept mapping software in a distributed learning environment

Carole Stekete, Ron Oliver, and Jan Herrington, Edith Cowan Univ., Australia

UNIV. MAIN BLDG., A1/Brief: Other

Cases Digital vs. Analogue

Kimiko Isono, Osaka Kunei Womens College, Japan

Tools The Use of Technology to Improve Mathematics Performance Among Elementary School Students.

Albert Strickland, David Coffland, Jane Strickland, Jack Coffland, and Larry Harris, Idaho State Univ., USA

Tools Developing Web-based Courses on Computing Using a Hypermedia Model

José V. Benlloch-Dualde, Félix Buendía-García, Manuel Agustí i Melchor, José A. Gil-Salinas, and Angel Rodas-Jordá, Escuela Univ. de Informatica, Spain

UNIV. MAIN BLDG., A3/Brief: Other

Tools Collaborative Tools in High Bandwidth Networks: A Case for E-Learning in a Knowledge Management Environment

Shanua Farmer, Defense Intelligence Agency, USA; Sue Stein, Department of Defense, WHS, USA

Tools GAIA: Curriculum-based Exploratory Educational Software Using 3D Components

Athanasios Papageorgiou, and Demetrios Sampson, Informatics and Telematics Inst. (ITI), Greece; Ioannis Kotsanis, Pliroforiki Tehnognosia, Greece; Nikolaos Dapontes, Pliroforiki Tehnognosia, Greece

Tools Online assessment decision supports in electronic portfolio systems using data mining technologies

Gwo-Dong Chen, Chen-Chung Liu, and Kuo-Liang Ou, National Central Univ., Taiwan; Ching-Fen Pai, Fortune Inst. of Technology, Taiwan; Baw-Jhiune Liu, Yuan Ze Univ., Taiwan

UNIV. MAIN BLDG., A4/Brief: Other

Learn Faculty Development Webbing: A Model of Just-in-Time Mentoring and Beyond

Donna Wood, Melissa Becker, and Susan Frusher, Northeastern State Univ., USA

Learn Humanities on the Internet: A Collaborative Model for Faculty Development

Carol Hansen, and Catherine Zublin, Weber State Univ., USA

Learn Successful integration of learning technologies in school classrooms (SILT)

Elizabeth Hartnell-Young, Univ. of Sydney, Australia

Concurrent Sessions – Saturday, June 30

PINNI BLDG., 0078/Brief: Other

- HCI** Capturing Communication and Interaction Needs of the Users-Building Better ICT Based Learning Environments
Raila Ollikainen, and Johanna Leppävirta, Helsinki Univ. of Technology, Finland; Sigrún Gunnarsdóttir, Iceland Telecom, Iceland; Dijua Debra, BT, Great Britain
- HCI** Computer and Internet Attitudes of Adult GED Students
Carol Gilley, Univ. of Arkansas, USA
- Learn** Development and Assessment of a Graduate Level Statistics Course Online
Candace Gunnarsson, Xavier, USA

UNIV. MAIN BLDG., Computer Room 4/Interactive Session

- Designing Effective User-Interfaces for Computer-Based and Web-based Training Programs
Peter Fenrich, British Columbia Inst. of Technology, Canada

2:45-3:45 PM

UNIV. MAIN BLDG., D10 A/Full: SysRes

- HCI** Applying Navigation Mechanism to Virtual Experiment Environment on WWW with XML-style Teaching Materials
Maiga Chang, Rita Kuo, and Jia-Sheng Heh, Chung-Yuan Christian Univ., Taiwan

PINNI BLDG., PAAVO KOLI/Full: CES

- Learn** Different Levels of Internet Integration in University Academic Activities: examples and pedagogical implications
Denis Harvey, Univ. de Montréal, Canada; Christian Depover, Bruno DeLievre, and Jean Jacques Quintin, Univ. de Mons-Hainaut, Belgium
- Learn** Web-based Instruction: The Effect of Design Considerations on Learner Perceptions and Achievement
Colleen Jones and Min Liu, Univ. of Texas at Austin, USA

UNIV. MAIN BLDG., D11/Brief: Other

- Infra** A System Approach to Manage Educational Change in a Web-based Educational Setting
Armand St-Pierre, Royal Military College, Canada
- Infra** Intelligent Agents for Support of Distance Learning Environments
Thresa Lang, Veridian, USA
- Infra** Specification of an online programme for South African teachers
Elias Oupa Mashile, Univ. of South Africa, South Africa

UNIV. MAIN BLDG., TYT Auditorium/Brief: ProjOpp

- Cases** A Project for Supporting Photonics Development as a Modern University Research Centre
Mihaela Ghelmez (Dumitru), Politehnica Univ. of Bucharest, Romania
- Cases** Digital Image Deployment - Production and
Barbara Dewey, Univ. of Tennessee, USA
- Cases** The Use of Business Game in the Learning Process
Edmundo Gonzalez and Sergio Ortiz, Tecnologico de Monterrey, Mexico

UNIV. MAIN BLDG., A2A/Brief: ProjOpp

- Cases** Communicative Collaboration: Four CSDL Students' Online Group Collaborative Learning Perceptions and Experiences
C.Y. Janey Wang and Paul Resta, Univ. of Texas at Austin, USA
- Cases** MATAR: The Israeli Online Learning Community of Science and Technology Teachers
Mintz Rachel, CET, Israel; Hava Ben-Horin, Cet, Israel; Rafi Nachmias, Tel-Aviv Univ., Israel; Tuvia Dressler, Tel-Aviv Univ., Israel
- Cases** TeleQACE: A dynamic web-based knowledge network of health professionals
Mike Keppell, Teng Liaw, and Chris Pearce, The Univ. of Melbourne, Australia
- UNIV. MAIN BLDG., D10 B/Full: SysRes**
- Cases** NetPro: methodologies and tools for Project Based Learning in Internet
Hannu Markkanen, Espoo-Vantaa Inst. of Technology, Finland; Domenico Ponta, DIBE-Univ. of Genova, Italy
- Cases** Scouting Internet Resources for Teachers Using Technology
Feng-Kwei Wang, John Wedman, and Ronda Mitchell, Univ. of Missouri - Columbia, USA

PINNI BLDG., 0081/Full: SysRes

- Learn** Teaching University-Level Computer Science to High School Students over the Web
Arto Haataja, Sirpa Kontkanen, Jarkko Suhonen, and Erkki Sutinen, Univ. of Joensuu, Finland
- Learn** The WWW&OVER project: real-time distance education and the role of the Street Singer
Luigi Colazzo, Francesco Conte, and Andrea Molinari, Univ. of Trento, Italy

UNIV. MAIN BLDG., D16/Brief: ProjOpp

- HCI** Distributed Adaptive Learning Systems
Richard Hetherington, Yugi Lee, and Juhu Kim, Univ. of Missouri Kansas City, USA
- HCI** Need for Intelligent Web Server with Powerful Authoring Functions: No More Stress on Web Authors
Junichi Azuma, Univ. of Marketing and Distribution Sciences, Japan
- HCI** Selecting And Using Technologies Based On Cognitive Load
Rob McTavish, Simon Fraser Univ., Canada

UNIV. MAIN BLDG., D17/Full: SysRes

- Tools** A learning environment based on metaphors, concepts maps and hypermedia: Application to computer networks' training
Cécile Meyer, René Chalou, Bertrand David, and Christian Bessiere, Ecole Centrale de Lyon, France
- Tools** Flexible Course Configuration based on a Modular Course Model and a new Reference Mechanism
Anette Knierriem-Jasnock, Center for Computer Graphics, Germany

UNIV. MAIN BLDG., A1/Full: SysRes

- Tools** Combining Instructionist and Constructionist Learning in a Virtual Biotech Lab
Peter Dawabi and Martin Wessner, GMD-IPSI, Germany
- Tools** Learner-formulated questions in technology-supported learning applications
Eva Heinrich, Russell Johnson, and Daoshui Luo, Massey Univ., New Zealand; Hermann Maurer, Graz Univ. of Technology, Austria; Marianne Sapper, Surfmed Austria, Austria

UNIV. MAIN BLDG., A3/Full: SysRes

- Tools** A Multimedia Repository for Online Educational Content
Thomas Kleinberger and Lutz Schrepfer, Tecmath AG, Germany; Andreas Holzinger, Graz Univ. of Technology, Austria; Paul Müller, Univ. of Kaiserslautern, Germany
- Tools** ITMS: Individualized Teaching Material System -Adaptive Integration of Web Pages Distributed in Some Servers
Hiroyuki Mitsuhara, Tokushima Univ., Japan; Yoshinobu Kurose, Kinki Univ., Japan; Youji Ochi, Tokushima Univ., Japan; Yoneo Yano, Tokushima Univ., Japan

UNIV. MAIN BLDG., A4/Full: Other

- Learn** A Virtual Community under Construction: Beginning of an Enchantment
Luciane Sato, Débora Maçada and Cleci Maraschin, Federal Univ. of Rio Grande do Sul, Brazil
- Learn** Defining a new role for the instructor in the digital age: The case of a university in a developing country.
Ray Charakupa, Univ. of Botswana, Botswana

PINNI BLDG., 0078/Brief: Other

- Learn** Design for teamwork and team-Learning in an Online JAVA programming course
Rachel Or-Bach, Wim Veen, Maarten van de Ven, and Toine Andernach, Delft Univ., The Netherlands
- Learn** In-Service and Preservice Teacher Training: A Study of Online Dialogue
Kevin Koury, California Univ. of PA, USA; Gail Fitzgerald, Univ. of Missouri-Columbia, USA; Suzanne Cosgrove-Grubisa, California Univ. of PA, USA
- Learn** Intelligent Online-Knowledge-Resources for Intentional Learning
Heidrun Allert, Hadhami Dhraief, and Wolfgang Nejdil, Univ. of Hanover, Germany

3:45-4:15 PM

Main Entrance Area of University Main Building

Closing Remarks

Index of Primary Authors

LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME
Aarnio	Helena	29	10 AM	Brennecke	Andreas	30	11:15 AM	Dewey	Barbara	29	2:45 PM
Abraham	David	28	4 PM	Breuer	Jens	28	11:15 AM	Dewey	Barbara	30	2:45 PM
A'Herran	Anne	29	11:15 AM	Brickell	Gwyn	27	11:15 AM	Dima	Gabriel	28	4 PM
Ahmad	Norhayati	27	2:45 PM	Bronack	Stephen	30	1:30 PM	Dimitriadis	Panagiotis	30	10 AM
Ahn	Doehee	30	1:30 PM	Brown	Helen	27	11:15 AM	Dimitrova	Maia	28	11:15 AM
Aikonen	Risto	29	2:45 PM	Brown	Ian	27	10 AM	Dlodlo	Nomusa	28	1:30 PM
Akahori	Kanji	27	2:45 PM	Brusilovsky	Peter	26	1:30 PM	Dlodlo	Nomusa	29	1:30 PM
Alexander	Sylvia	28	10 AM	Bundy	Henric	27	6 PM	Dobson	Michael	27	4 PM
Alford	Randall	29	2:45 PM	Burgess	Gerald W.	30	1:30 PM	Dobson	Michael	28	11:15 AM
Allert	Heidrun	30	2:45 PM	Burquillo	Juan C.	28	4 PM	Dorota	Czarkie	27	6 PM
Al-Motrif	Abdulrahman	28	6 PM	Burrell	Andrew	25	8:30 AM	Dorothy	Sammons	30	1:30 PM
ALOraini	Sara	27	6 PM	Cabilio	Paul	27	6 PM	Drabe	Michael	27	4 PM
Anastasiades	Panagiotes	28	4 PM	Callahan	William	28	10 AM	Driscoll	Margaret	28	4 PM
Andersen	Christopher	27	1:30 PM	Cao	Xiaoli	27	4 PM	Dubbels	Brock	29	11:15 AM
Anderson	D. Michael	27	10 AM	Cao	Yanhua	30	1:30 PM	Dugonik	Bogdan	30	10 AM
Anderson	Dennis	29	2:45 PM	Carmichael	Dawn	27	1:30 PM	Duval	Erik	27	1:30 PM
Anderson	Jay	29	11:15 AM	Carrillo	Angela	28	6 PM	Ecklund	Earl F.	28	10 AM
Andrew	Malcolm	27	10 AM	Carter	Helen	27	6 PM	Edmonds	Gerald	28	6 PM
Annand	David	29	2:45 PM	Carter	Helen	30	1:30 PM	Ellis	Allan	27	6 PM
Archambault	Anne	28	1:30 PM	Chan	Esther	29	2:45 PM	Emans	Bruno	28	10 AM
Archee	Ray	27	2:45 PM	Chang	Chi-Cheng	28	11:15 AM	Era	Taina	28	6 PM
Ashida	Noboru	30	11:15 AM	Chang	Chih-Kai	27	1:30 PM	Eseryel	Deniz	29	4 PM
Atkins	Hilary	28	2:45 PM	Chang	Maiga	30	2:45 PM	Eseryel	Deniz	30	11:15 AM
Aubé	Michel	29	11:15 AM	ChanLin	Lih-Juan	27	1:30 PM	Eskridge	Sue	29	11:15 AM
Aufenanger	Stefan	28	6 PM	Charakupa	Ray	30	2:45 PM	Fang	Rong-Jyue	27	6 PM
Auricchio	Anna Lina	28	6 PM	Cheers	Chris	27	10 AM	Fang	Rong-Jyue	27	6 PM
Azevedo e Souza-	Valdemarina Bidone de	28	1:30 PM	Chemeda	Faye	30	1:30 PM	Fang	Rong-Jyue	30	10 AM
Azuma	Junichi	30	2:45 PM	Chemeda	Faye	30	1:30 PM	Fantini	Adriana Claudia	30	10 AM
Backer	Patricia	27	6 PM	Chen	Gwo-Dong	29	4 PM	Farmer	Shanan	30	1:30 PM
Baer	Jeremy	30	10 AM	Chen	Gwo-Dong	30	1:30 PM	Fenrich	Peter	30	1:30 PM
Bagnasco	Andrea	27	11:15 AM	Chen	Jin	28	4 PM	Ferraris	Christine	29	1:30 PM
Baniulis	Kazys	27	2:45 PM	Chen	Su-Shing	30	1:30 PM	Firdyiwek	Yitna	27	10 AM
Baptista Nunes	Miguel	27	4 PM	Chong	Ng S. T.	29	11:15 AM	Fitzgerald	Gail	28	4 PM
Barek	William	27	6 PM	Chrisman	Kent	28	6 PM	Fitzgerald	Gail	28	6 PM
Barish	Stephanie	27	6 PM	Christal	Mark	29	10 AM	Fletcher	Janice	28	10 AM
Barker	Philip	29	10 AM	Churchill	Daniel	29	11:15 AM	Forczek	Erzsebet	28	6 PM
Barrett	Helen	27	5 PM	Cisternino	Antonio	29	10 AM	Foreman	Joel	30	1:30 PM
Barrett	Helen	28	4 PM	Clariana	Roy	28	6 PM	Forsblom	Nina	28	11:15 AM
Barrett	Helen	28	6 PM	Clarkson	Barney	27	1:30 PM	Freeman	Howard	29	1:30 PM
Barrett	Patrick	29	2:45 PM	Clifford	Pat	30	10 AM	French	Fiona	28	6 PM
Bartlett	Andrea	28	10 AM	Cody	Alan	28	6 PM	Fresen	Jill	29	11:15 AM
Barufaldi	James P.	27	2:45 PM	Coe	Jo Ann	27	6 PM	Fujita	Shinichi	30	10 AM
Basal	Mine	27	4 PM	Cohen	Steve	28	2:45 PM	Fujitani	Satoru	30	10 AM
Beasley	Martha	27	11:15 AM	Colazzo	Luigi	30	2:45 PM	Fulantelli	Giovanni	27	10 AM
Becker	Melissa Roberts	28	1:30 PM	Collins	Michael	28	4 PM	Gaede	Bernd	29	1:30 PM
Beckstrand	Scott	27	2:45 PM	Collis	Betty	29	10 AM	Gamez	Rosalba	27	2:45 PM
Beckstrand	Scott	28	11:15 AM	Combs	Leon	25	8:30 AM	Gamper	Johann	29	1:30 PM
Belfer	Karen	28	6 PM	Combs	Leon	27	1:30 PM	Ganesan	Radha	28	1:30 PM
Belfer	Karen	30	10 AM	Conrad	Dianne	28	10 AM	Garcia	Marilene	28	1:30 PM
Benacchio	Leopoldo	29	11:15 AM	Contreras Castillo	Juan José	27	1:30 PM	Garner	Ruth	29	4 PM
Benacchio	Leopoldo	30	10 AM	Cook	John	29	1:30 PM	Geer	Ruth	27	10 AM
Benkert	Stephan	28	1:30 PM	Coombs	Steven	29	2:45 PM	Genang	Ralph	28	2:45 PM
Benlloch-Dualde	José V.	30	1:30 PM	Cron	Glynis	27	6 PM	Gengler	Manfred	27	2:45 PM
Bennett	Sue	28	4 PM	Crystal	Jerry	30	10 AM	Germann	Clark	28	2:45 PM
Benney	Alfred	29	1:30 PM	Cudowska	Agata	27	11:15 AM	Ghelmez	Mihaela	30	2:45 PM
Berman	Robert	28	1:30 PM	Cummings	Leslie E.	27	2:45 PM	Giardina	Max	28	1:30 PM
Beyth-Marom	Ruth	28	11:15 AM	Cunningham	Michael	27	2:45 PM	Gilley	Carol	28	6 PM
Bick	Markus	29	10 AM	Curry	Joanne	30	1:30 PM	Gilley	Carol	30	1:30 PM
Binda	He	28	6 PM	Dahlgren	Ethel	27	6 PM	Giouvanakis	Thanasis	27	4 PM
Bitter	Gary	30	8:30 AM	Dal Farra	Ricardo	28	6 PM	Gohagan	Debra	30	11:15 AM
Black	John	27	1:30 PM	Dalla Valle	Luciana Rocha de	28	1:30 PM	Gomes	Pericles	27	6 PM
Blair	Kristine	28	10 AM	Daniel	Esther	27	10 AM	Gonzalez	Edmundo	30	2:45 PM
Bloch	Beverly	29	4 PM	Davidson-Shivers	Gayle V.	28	2:45 PM	González	Julio	27	4 PM
Boff	Elisa	27	2:45 PM	Davis	Mike	27	2:45 PM	Goodison	Terence	30	11:15 AM
Bolter	Jay	30	10 AM	Dawabi	Peter	30	2:45 PM	Grabowska	Anna	28	6 PM
Bonk	Curt	26	1:30 PM	De Boer	Wim	27	10 AM	Grabowski	Barbara	27	10 AM
Bonk	Curt	26	8:30 PM	de Castell	Suzanne	29	11:15 AM	Greene	Elinor	28	1:30 PM
Boon	Hans	27	11:15 AM	Debevc	Matjaz	28	6 PM	Gunnarsson	Candace	30	1:30 PM
Boot	Eddy	28	10 AM	Deek	Fadi	28	10 AM	Guttormsen Schär	Sissel	27	10 AM
Boucouvalas	Anthony	28	2:45 PM	DeMartino	Darrell	28	1:30 PM	Haataja	Arto	30	2:45 PM
Bouniaev	Mikhail	30	10 AM	Demeersseman	Eddy	27	2:45 PM	Hachey	Alyse	27	10 AM
Bouras	Christos	30	11:15 AM	Demeersseman	Eddy	28	6 PM	Hallett	Karen	28	10 AM
Bourda	Yolaine	29	10 AM	Demuth	Birgit	27	10 AM	Hambach	Sybille	27	4 PM
Bradley	Claire	29	10 AM	Destounis	Panagiotis	30	11:15 AM	Hampel	Thorsten	30	11:15 AM
Brennecke	Andreas	28	10 AM	Destro-Filho	Joao-Batista	28	1:30 PM	Han	Binglan	27	2:45 PM

Index of Primary Authors

LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME
Hannafin	Michael	29	4 PM	Kankaanranta	Marja	28	1:30 PM	Light	Janet Vijaya	30	10 AM
Hanny	Robert	27	6 PM	Kankaanrinta	Ilta-Kanerva	28	1:30 PM	Limongiello	Gianpiero	27	11:15 AM
Hansen	Carol	30	1:30 PM	Kaplan	Danielle	28	4 PM	Lin	Janet Mei-Chuen	28	11:15 AM
Harada	Yamato	28	6 PM	Karadimitriou	Panagiota	29	4 PM	Lindfors	Juha	29	2:45 PM
Hardy	Suzanne	29	4 PM	Karmakar	Nitya L	28	10 AM	Liu	Chen-Chung	29	1:30 PM
Harley	Diane	27	2:45 PM	Kashihara	Akihiro	30	11:15 AM	Liu	Min	28	11:15 AM
Harper	Barry	28	1:30 PM	Kassanke	Stephan	28	2:45 PM	Lobben	Amy	27	4 PM
Hart	Eric	28	6 pm	Kato	Yukari	27	4 PM	Lou	Yiping	28	6 PM
Hart	Eric	30	11:15 AM	Kaur	Abtar	27	11:15 AM	Love	Matthew	27	10 AM
Hartman	Janet	29	10 AM	Kavnoudias	Helen	29	1:30 PM	Lua	Seu-Kea	29	11:15 AM
Hartnell-Young	Elizabeth	30	1:30 PM	Keiho	Harri	28	10 AM	Luca	Joe	28	1:30 PM
Harvey	Denis	30	2:45 PM	Kekhia	Walid	28	4 PM	Luca	Joe	28	4 PM
Hasegawa	Shinobu	30	11:15 AM	Kemm	Robert	27	10 AM	Luca	Joe	29	1:30 PM
Hassan	Shahizan	27	6 PM	Kendle	Amanda	27	1:30 PM	Lugmayr	Artur	28	6 PM
Hassebroek	Pamela	28	4 PM	Kennedy	David	27	10 AM	Lundquist	Robert	27	10 AM
Hatzipanagos	Stylianos	28	4 PM	Kennedy	David M.	27	2:45 PM	Lyman	Susan	27	6 PM
Hautakangas	Sami	27	1:30 PM	Kennedy	Gregor	27	1:30 PM	Lyman	Susan	28	4 PM
Heinrich	Eva	27	1:30 PM	Kennedy	Gregor	27	10 AM	Lytras	Miltiadis	27	1:30 PM
Heinrich	Eva	30	2:45 PM	Kennedy	Gregor	29	10 AM	Ma	Jianhua	27	11:15 AM
Helic	Denis	30	10 AM	Keppell	Mike	30	10 AM	Macgregor	Malcolm	28	2:45 PM
Helier	Marc	28	6 PM	Keppell	Mike	30	2:45 PM	Mackie	Brian	29	11:15 AM
Heller	Rachelle	25	1:30 PM	Ketamo	Harri	28	1:30 PM	Magenheim	Johann S.	30	11:15 AM
Hendrickson	Lois	29	2:45 PM	Ketamo	Harri	30	10 AM	Maki	Jukka	27	10 AM
Hendriks	Veronica	29	1:30 PM	Kim	Jong-Heon	27	11:15 AM	Maki	Jukka	27	6 PM
Hernandez	Isabel	27	2:45 PM	Kimchi	Booki	27	6 PM	Maki	Jukka	29	1:30 PM
Herrington	Anthony	27	1:30 PM	Kinshuk	Dr	27	11:15 AM	Mäkitalo	Kati	27	6 PM
Hetherington	Richard	30	2:45 PM	Klein	Arno	28	11:15 AM	Mäkitalo	Kati	28	6 PM
Hietala	Pentti	29	10 AM	Kleinberger	Thomas	30	2:45 PM	Malone	Paul	28	2:45 PM
Hill	Cher	29	11:15 AM	Klejna	Tony	25	8:30 AM	Maly	Kurt	30	11:15 AM
Hines	Susan	30	1:30 PM	Knierrim-Jasnoch	Anette	30	2:45 PM	Man	Yiu Kwong	29	11:15 AM
Hinrichs	Randy J.	29	8:30 AM	Kobaysahi	Etsuo	27	11:15 AM	Marinho	Simão Pedro	29	2:45 PM
Hoagland	Carl	27	2:45 PM	Kojiri	Tomoko	27	1:30 PM	Markkanen	Hannu	27	4 PM
Hofmann	Tobias	27	11:15 AM	Koppi	Tony	29	1:30 PM	Markkanen	Hannu	30	2:45 PM
Holley	Debbie	27	1:30 PM	Korhonen	Vesa	27	4 PM	Marra	Rose	29	11:15 AM
Holzinger	Andreas	29	10 AM	Koury	Kevin	30	2:45 PM	Martinez	Raquel	27	2:45 PM
Holzinger	Andreas	29	10 AM	Kozminsky	Lea	30	1:30 PM	Mashile	Elias Oupa	30	2:45 PM
Hong	Hong	29	4 PM	Kraan	Andriani	29	2:45 PM	Maswera	Tonderai	27	11:15 AM
Horiguchi	Tomoya	29	4 PM	Kritskaya	Olga	27	6 PM	Matsuno	Ryoji	27	10 AM
Hourvitz	Leo	26	8:30 AM	Kritskaya	Olga	29	4 PM	Maurer	Hermann	27	11:15 AM
Houser	Chris	28	4 PM	Kritzenberger	Huberta	29	1:30 PM	Maurer	Hermann	30	11:15 AM
Hsieh	Ching-Hwei	28	6 PM	Kunnath	Maria Lorna	28	10 AM	Mayr	Peter	27	4 PM
Hu	Chun	29	1:30 PM	Kunnath	Maria Lorna	28	6 PM	McCarthy	James	27	4 PM
Huet	Nathalie	28	11:15 AM	Kunz	Patrick	30	1:30 PM	McCarthy	James	27	6 PM
Huovinen	Liisa	29	1:30 PM	Kurokami	Haruo	27	10 AM	McCormick	Christopher	27	6 PM
Iida	Koji	28	6 PM	Kuure	Leena	28	6 PM	McDonald	Jacquelin	30	1:30 PM
Ikuta	Takashi	28	6 PM	Laanpere	Mart	27	6 PM	McGraw	Tammy	29	2:45 PM
Inoue	Tomo'o	27	6 PM	Laarni	Jari	29	4 PM	McGrew-Zoubi	Robin	29	2:45 PM
Irvine	Valerie	28	2:45 PM	Laffi	Yacine	30	11:15 AM	McLoughlin	Catherine	25	1:30 PM
Isomäki	Hannakaisa	28	2:45 PM	Lahav	Orly	27	1:30 PM	McLoughlin	Catherine	28	11:15 AM
Isono	Kimiko	30	1:30 PM	Lang	Thresa	30	2:45 PM	McLoughlin	Catherine	29	1:30 PM
Ivan	Cosmina	28	6 PM	Larson	Lisa	27	6 PM	McLoughlin	Catherine	29	1:30 PM
Jaaskelainen	Kari	29	2:45 PM	Laws	Dwight	28	10 AM	McMahon	Mark	30	1:30 PM
Jaaskelainen	Kari	29	4 PM	Layton	Maneerat R.	30	10 AM	McMahon	Mark	30	11:15 AM
Jackson	Kimberly	27	11:15 AM	Le	Quynh	28	1:30 PM	McTavish	Rob	30	2:45 PM
Jagose	Annamarie	28	6 PM	Le	Quynh	28	6 PM	Medici	Patricia	30	11:15 AM
James	Patrick	27	6 PM	Lee	Chien-Chih (James)	28	6 PM	Metaxaki	Christina	27	6 PM
James	Peggy	28	4 PM	Lee	Chul-Hwan	28	11:15 AM	Metaxaki-Kossionides	Christina	27	2:45 PM
Jih	Hueching J.	27	4 PM	Lee	Chul-Hyun	28	11:15 AM	Metros	Susan	25	1:30 PM
Jonassen	David	28	8:30 AM	Lee	Doris	30	1:30 PM	Meyer	Cécile	30	2:45 PM
Jonassen	David	29	11:15 AM	Lee	Heebok	28	6 PM	Michalski	Konrad	29	11:15 AM
Jones	Colleen	30	2:45 PM	Lee	Heebok	28	6 PM	miller	leslie	28	6 PM
Jones	Ray	28	1:30 PM	Lee	Insook	28	11:15 AM	Miltlenoff	Plamen	28	10 AM
JongSeok	Park	29	11:15 AM	Lee	Miwha	27	10 AM	Min	R. (Rik)	28	6 PM
Juhola	Helene	28	1:30 PM	Lee	Vivien	27	4 PM	Mitchell	Isidora	30	10 AM
Juwah	Charles	28	6 PM	Leh	Amy S. C.	27	4 PM	Mitra	Ananda	28	11:15 AM
Kadlubowski	Michael G.	29	11:15 AM	Leh	Amy S. C.	30	10 AM	Mitsuhara	Hiroyuki	30	2:45 PM
Kajander	Petri	27	6 PM	Lehtinen	Erno	30	1:30 PM	Mohd-Saat	Rohaida	29	2:45 PM
Kallioinen	Outi	29	2:45 PM	Leifheit	Marcelo	28	1:30 PM	Montgomerie	Craig	27	11:15 AM
Kallonen-Rönkkö	Marja	28	6 PM	Leinonen	Teemu	29	4 PM	Moraes	Candida	28	4 PM
Kämäräinen	Juha	28	6 PM	Lemon	Jason	28	6 PM	Moraes	Marialice	27	2:45 PM
Kamel Abdelrahman	Abdelrahman	29	11:15 AM	Leon	Juan	28	10 AM	Moraes	Marialice	27	6 PM
Kang	Myunghee	27	11:15 AM	Leon	Juan	28	6 PM	Moreno	Janette	29	10 AM
Kang	Myunghee	27	2:45 PM	Levasma	Jarkko	27	4 PM	Mouza	Chrystalla	27	11:15 AM
Kang	Myunghee	27	6 PM	Levonen	Jarmo	29	11:15 AM	Mouza	Chrystalla	28	1:30 PM
Kangassalo	Marjatta	28	6 PM	Libbrecht	Paul	28	4 PM	Multisilta	Jari	27	2:45 PM

Index of Primary Authors

LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME
Mundell	Roger	27	1:30 PM	Rodríguez	Patricio	28	10 AM	Stekettee	Carole	30	1:30 PM
Musser	Dale	27	11:15 AM	Ross	Glenn	28	2:45 PM	Stevens	Ken	27	11:15 AM
Nachmias	Rafi	29	4 PM	Rost van Tonningen	Herre	27	6 PM	Still	Kaisa	27	6 PM
Naidu	Som	25	1:30 PM	Rourke	Liam	30	1:30 PM	Stone	R. Brian	28	4 PM
Naidu	Som	27	4 PM	Rousselle	Eric	27	1:30	St-Pierre	Armand	30	2:45 PM
Nakanishi	Michio	29	11:15 AM	Roxin	Loan	30	1:30 PM	Strickland	A W	30	11:15 AM
Nakanishi	Yaeko	27	6 PM	Rozina	Irina	27	6 PM	Strickland	A.W.	29	11:15 AM
Nakanishi	Yaeko	28	4 PM	Ruberg	Laurie	28	11:15 AM	Strickland	Albert	30	1:30 PM
Natan	Nurit	28	1:30 PM	Rubina	Nina	28	6 PM	Strickland	Jane	29	11:15 AM
Nejdl	Wolfgang	27	1:30 PM	Ruess	Christian	29	2:45 PM	Strijker	Allard	28	1:30 PM
Nelson	Gerald "Jerry"	29	11:15 AM	Ruiz Ben	Esther	28	11:15 AM	Strukov	Andrei	27	11:15 AM
Nelson	Therese	28	6 PM	Ruokamo	Heli	27	10 AM	Strukov	Andrei	27	6 PM
Neumann	Gaby	29	4 PM	Ryan	Malcolm	27	10 AM	Stuckey	Bronwyn	29	1:30 PM
Nieminen	Pekka	30	1:30 PM	Sagisaka	Tomoko	29	11:15 AM	Suits	Jerry P.	28	11:15 AM
Nikitin	Igor	28	1:30 PM	Saisho	Motoyuki	30	10 AM	Sullivan	Florence	30	11:15 AM
Nishida	Tomohiro	28	4 PM	Sala	Nicoletta	27	2:45 PM	Sutherland	Janet	28	11:15 AM
Nokelainen	Petri	27	2:45 PM	Sala	Nicoletta	27	6 PM	Suuronen	Tomi	27	6 PM
Northcote	Maria	29	4 PM	Salinas	Fidel Michael	28	6 PM	Suzuki	Katsuaki	28	4 PM
O'Connor	Emily	27	6 PM	Salinas	Jesus	27	6 PM	Suzuki	Katsuaki	28	6 PM
O'Dea	Michael	27	11:15 AM	Salovaara	Hanna	29	4 PM	Suzuki	Ryoichi	29	10 AM
Okamoto	Toshio	30	1:30 PM	Sammons	Dorothy	30	11:15 AM	Swan	Karen	28	1:30 PM
Ollikainen	Raila	30	1:30 PM	Sancho	Teresa	27	6 PM	Swan	Karen	30	11:15 AM
Omaha Boy	Nancy	28	6 PM	Santema	Sicco	27	6 PM	Szabo	Michael	28	6 PM
Omaha Boy	Nancy	27	6 PM	Santiago	Rowena	27	6 PM	Szabo	Michael	29	2:45 PM
Oprins	Esther	30	10 AM	Santoro	Flávia	29	10 AM	Tan	Seng Chee	29	11:15 AM
Or-Bach	Rachel	30	2:45 PM	Sato	Luciane	30	2:45 PM	Tanimoto	Steven	29	10 AM
Oriogun	Peter K.	28	4 PM	Scapin	Rafael	28	6 PM	Tapola	Anna	29	4 PM
Orre	Carl Johan	29	2:45 PM	Schertler	Manfred	28	4 PM	Tarver	A. Richard	28	4 PM
Ottaviano	Simona	27	11:15 AM	Scheuermann	Friedrich	30	10 AM	Taylor	Jason	27	1:30 PM
Papadopoulos	Giorgos	30	11:15 AM	Schlough	Steve	29	11:15 AM	Tazi	Said	28	4 PM
Papageorgiou	Athanasios	30	1:30 PM	Schmidt	Peter	30	11:15 AM	Tejada	Jesus	27	4 PM
Papas	George	28	2:45 PM	Schumacher	Terry	29	11:15 AM	Thirunarayanan	M.O.	28	6 PM
Papas	George	30	1:30 PM	Scott	Lisa A.	27	11:15 AM	Thirunarayanan	M.O.	30	10 AM
Pärkkä	Timo	28	6 PM	Search	Patricia	28	2:45 PM	Thornton	Patricia	27	2:45 PM
Pata	Kai	29	2:45 PM	Semrau	Louis	29	11:15 AM	Tim	Bell	27	1:30 PM
Patton	Lise	30	10 AM	Seper	Wolfgang	28	1:30 PM	Toida	Shunichi	28	2:45 PM
Pauselli	Emanuela	30	10 AM	Sethi	Parvinder	27	2:45 PM	Traver	Holly	27	6 PM
Pawlowski	Jan M.	29	11:15 AM	Sethi	Parvinder	27	4 PM	Traver	Holly	28	6 PM
Pearson	Elaine	28	10 AM	Sethi	Parvinder	27	4 PM	Trewern	Ann	27	1:30 PM
Pefianco	Erlinda	28	4 PM	Shany	Nehama	29	10 AM	Tunca	Burcu	27	11:15 AM
Pemberton	Jane	28	1:30 PM	Shaw	Robin	27	2:45 PM	Tuononen	Kari	28	10 AM
Pérez	María Angeles	28	6 PM	Sheard	Judy	29	1:30 PM	Tuovinen	Juhani	27	4 PM
Pérez Cereijo	María Victoria	27	2:45 PM	Shen	Ruimin	27	6 PM	Tyndall	Timothy	27	11:15 AM
Pérez Cereijo	María Victoria	29	2:45 PM	Sheremetov	Leonid	28	11:15 AM	Ure	Jenny	29	2:45 PM
Person	Natalie	30	11:15 AM	Shirattuddin	Norshuhada	28	6 PM	Utsi	Steven	27	4 PM
Pesonen	Katja	27	1:30 PM	Shirattuddin	Norshuhada	29	11:15 AM	Uys	Philip	29	10 AM
Pete	Mari	28	10 AM	Shlyk	Vladimir	27	6 PM	Vahtivuori	Sanna	28	11:15 AM
Plass	Jan L.	28	2:45 PM	Shortridge	Ann	28	10 AM	Vainio	Leena	29	2:45 PM
Ploetzner	Rolf	28	2:45 PM	Shrader	Vincent E.	30	10 AM	Vallverdu	Francesc	27	6 PM
Polsani	Pithamber R.	28	4 PM	Silver	Raymond	30	11:15 AM	van Aalst	Jan	29	2:45 PM
Prata	David	28	4 PM	Simon	Marilyn	28	10 AM	van Braak	Johan	29	1:30 PM
Prendinger	Helmut	30	10 AM	Sims	Rod	26	1:30 PM	Van Durm	Rafael	29	1:30 PM
Prentzas	Jim	29	10 AM	Sims	Rod	26	8:30 AM	vander Westhuizen	Duan	27	4 PM
Priemer	Burkhard	27	2:45 PM	Sims	Rod	28	2:45 PM	Vänskä	Riitta	27	8:30 AM
Protopapas	Athanasios	29	2:45 PM	Sims	Rod	29	1:30 PM	Vassileva	Tania	29	4 PM
Putnik	Zoran	28	10 AM	Sirmakessis	Spiros	28	6 PM	Veen	Wim	29	2:45 PM
Rachel	Mintz	30	2:45 PM	Sisk	Jane	27	4 PM	Veen	Wim	30	10 AM
Redding	G.A.	28	10 AM	Skelton	Stephen	27	2:45 PM	Veldhuis	Gerard	28	4 PM
Reed	W. Michael	27	6 PM	Skog	Daniel	28	4 PM	Verhoeven	Bart	28	2:45 PM
Reeves	Thomas	28	10 AM	Slaughter	Adrienne H.	28	2:45 PM	Vermel	Jean	28	6 PM
Reeves	Thomas C.	26	1:30 PM	Slobodina	Tatiana	27	11:15 AM	Viaene	Nicole	28	4 PM
Reeves	Thomas C.	26	8:30 AM	Smith	Glenn	29	10 AM	Viens	Jacques	29	1:30 PM
Rega	Isabella	28	4 PM	Smith	Glenn	29	10 AM	Viens	Jacques	29	4 PM
Rehberger	Dean	27	6 PM	Söderström	Tor	28	6 PM	Vijay	Nair	29	2:45 PM
Relan	Anju	29	2:45 PM	Solovieva	Tatiana	27	11:15 AM	Vitikainen	Matti	27	6 PM
Resta	Virginia	27	11:15 AM	Sontag	Ralph	28	6 PM	Voce	Julie	28	10 AM
Reyes	Araceli	29	11:15 AM	Sorensen	Elsebeth	29	1:30 PM	von Danwitz	Frank	28	6 PM
Richardson	Jennifer	28	1:30 PM	Southern	Matthew	29	4 PM	von Koschembahr	Chris T.	28	10 AM
Richardson	Jennifer	29	2:45 PM	Souza	Valdemarina	27	6 PM	Voskamp	Jörg	30	11:15 AM
Riera	Adolfo	27	11:15 AM	Spector	J. Michael	28	10 AM	Vrabic	Gorazd	28	10 AM
Ring	Geoff	28	6 PM	Spitulnik	Michele	29	11:15 AM	Walker	David	27	2:45 PM
Rinta-Filppula	Riitta	28	10 AM	Starrett	David	28	6 PM	Walker	Judith	29	11:15 AM
Rissanen	Kaisa	27	6 PM	sTeam	Projektgruppe	28	10 AM	Wall	Mary	28	1:30 PM
Ritzen	Magda	28	2:45 PM	sTeam	Projektgruppe	28	6 PM	Wang	C.Y.Janey	30	2:45 PM
Rodgers	Michael	28	4 PM	Steinacker	Achim	29	4 PM	Wang	Cheng-Yen	29	11:15 AM

Index of Primary Authors

LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME	LAST NAME	FIRST NAME	DATE	TIME
Wang	Chuanbao	28	2:45 PM	Wiest	Simon G.	29	4 PM	Yaffe	Edna	30	10 AM
Wang	Feng-Kwei	30	2:45 PM	Williams	Doug	27	4 PM	Yair	Yoav	27	11:15 AM
Wang	James T.J.	27	2:45 PM	Williams	Doug	27	6 PM	Yamauchi	Yuhei	29	10 AM
Wang	James T.J.	27	2:45 PM	Williams	Doug	29	10 AM	Yang	Shu Ching	27	6 PM
Wang	Lih-Ching Chen	28	1:30 PM	Williamson	David	29	10 AM	Yao	James E.	30	10 AM
Watanabe	Toyohide	28	1:30 PM	Winnips	Koos	27	1:30 PM	Yeo	Dorene	27	6 PM
Weaver	Debbi	27	11:15 AM	Wolfe	Carol	28	6 PM	Yeo	Dorene	29	2:45 PM
Webb	L. Dean	28	1:30 PM	Wolfrum	Melinda	30	10 AM	Yoder	Maureen	29	10 AM
Wehner	Frank	29	1:30 PM	Wood	Donna	30	1:30 PM	Yoon	Kyungseob	27	6 PM
Weippl	Edgar	28	1:30 PM	Wright	Rob	28	1:30 PM	Young	Shelley Shwu-ching	27	11:15 AM
Weippl	Edgar	29	4 PM	Wu	Albert K W	27	6 PM	Young	Stuart	28	1:30 PM
Weitz	Rob	29	2:45 PM	Wu	Albert K W	28	1:30 PM	Young	Stuart	28	4 PM
Werner	Stefan	28	2:45 PM	Wu	Cheng-Chih	28	11:15 AM	Yu	Hai	27	10 AM
Wessner	Martin	29	10 AM	Wu	Szuchien S.	28	4 PM	Yueh	Hsiu-Ping	27	1:30 PM
West	Peter	27	6 PM	Wylin	Bert	27	11:15 AM	Zellweger	Polle	28	11:15 AM
Wheeler	Willie	30	10 AM	Wylin	Bert	28	2:45 PM	Zhang	Jie	29	11:15 AM
Whelan	Robert	30	10 AM	Yablon	Yaacov	28	11:15 AM				

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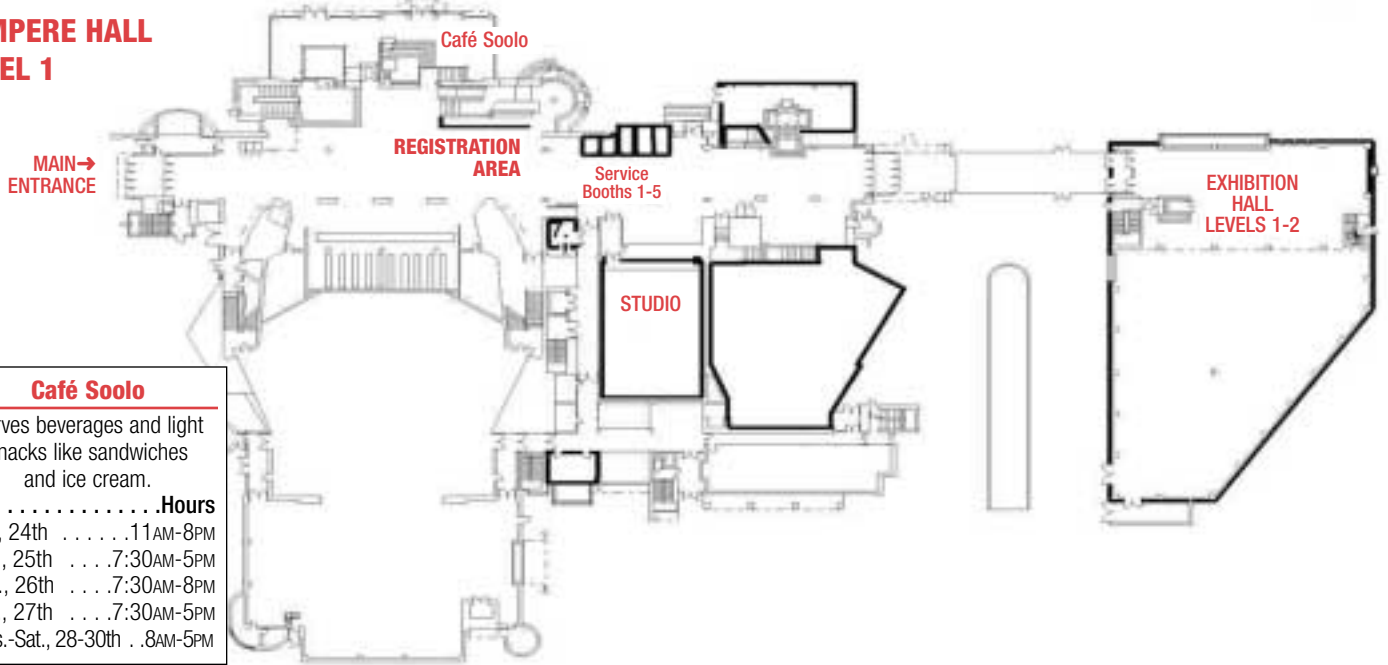
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Notes

Notes

Tampere Hall & Area Map

TAMPERE HALL LEVEL 1

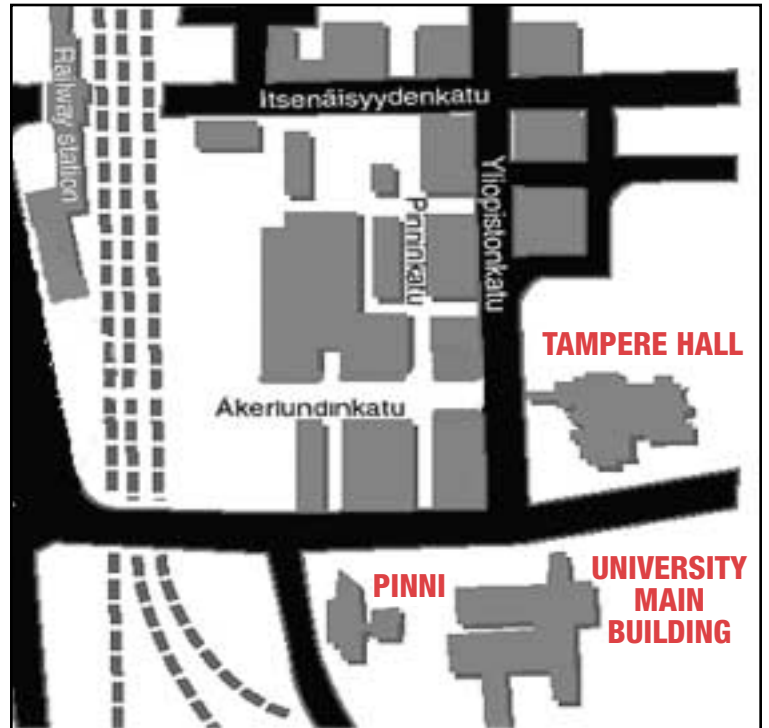
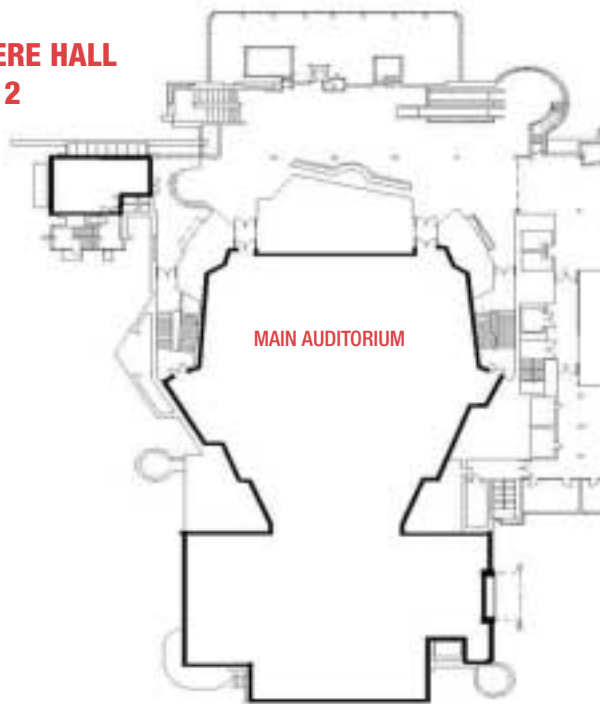


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Serves beverages and light snacks like sandwiches and ice cream.

Day	Hours
Sun., 24th	11AM-8PM
Mon., 25th	7:30AM-5PM
Tues., 26th	7:30AM-8PM
Wed., 27th	7:30AM-5PM
Thurs.-Sat., 28-30th	8AM-5PM

TAMPERE HALL LEVEL 2



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