

IFIP WCCE 2005

Stellenbosch University
South Africa

in cooperation with ICOOL and UNITAR

Conference Programme

Friday, July 1st 2005

TCO (14:00 **TC3 Officers Meeting**
-
18:00)

chair:
Jan Wibe Cillie
5003

Saturday, July 2nd 2005

TC 3 (09:00 **TC 3 Meeting (Session 1)**
1 -
12:30)

chair:
Jan Wibe Cillie
5003

TC 3 (14:00 **TC 3 Meeting (Session 2)**
2 -
18:00)

chair:
Jan Wibe Cillié
5003

TC 3 (20:00 **TC 3 Dinner**
D -
23:30)

De Oewer

Sunday, July 3rd 2005

TC 3 (09:00 **TC 3 Meeting (Session 3)**
3 -
12:00)

chair:
Jan Wibe Cillié
5003

IPC 1 (12:30 **IPC Meeting**
-
16:00)

chair:
Bernard Cornu Cillié
5003

WG (13:00 **IFIP Working Group 3.5 (AGM)**
3.5 -
14:30)

chair:
Sindre Rosvik Lettere
224

T1 (14:30 - **Tea**
15:00)

Lettere
Cillié

REG (15:00 **Registration**
1 -
18:00)

Lettere

WG (15:00 **IFIP Working Group 3.4 (AGM)**
3.4 -
16:30)

chair:
Barrie Thompson Lettere
225

WG (16:30 **IFIP Working Group 3.2 (AGM)**
3.2 -
18:00)

chair:
John Hughes Lettere
223

WG (16:30 **IFIP Working Group 3.7 (AGM)**
3.7 -
18:00)

chair:
Adrie Visscher Lettere
229

LLL (18:00 **IFIP TC3 Task Force on LLL (AGM)**
-
19:00)

chair:
Brian Samways Lettere
230

Monday, July 4th 2005

REG 2	(08:00 - 12:00)	Registration		Lettere
WG 3.1	(08:30 - 10:00)	IFIP Working Group 3.1 (AGM)	chair: Deryn Watson	Lettere 223
WG 3.3 1	(08:30 - 10:00)	IFIP Working Group 3.3 (Working Session 1)	chair: Paul Nicholson	Lettere 225
WG 3.6 1	(08:30 - 10:00)	IFIP Working Group 3.6 (Working Session 1)	chair: Gordon Davies	Lettere 227
C1	(10:00 - 10:30)	Coffee		Lettere Cillié
WG 3.3 2	(10:30 - 12:00)	IFIP Working Group 3.3 (Working Session 2)	chair: Paul Nicholson	Lettere 225
WG 3.6 2	(10:30 - 12:00)	IFIP Working Group 3.6 (Working Session 2)	chair: Gordon Davies	Lettere 227
WG 3.6	(12:00 - 13:00)	IFIP Working Group 3.6 (AGM)	chair: Gordon Davies	Lettere 227
L1	(12:00 - 13:00)	Lunch		Lettere Cillié
O	(13:00 - 14:30)	Opening Session	chair: Peter Waker	Townhall

	Session Chairman - Peter Waker Organising Committee Chairman, WCCE 2005
13:00	Welcome to WCCE 2005
	Professor Bernard Cornu, Chairman International Programme Committee, WCCE 2005
13:10	Welcome to South Africa and Stellenbosch
	Mr. Bruce Kannemeyer, Municipal Manager: Stellenbosch
13:20	Welcome to Stellenbosch University
	Prof. Chris Brink, Rector, Stellenbosch University
13:30	Opening Address
	Mr. Mohamed Enver Surty, Deputy Minister of Education
14:00	ICT in Education - the global challenge
	Dr. Joseph Njimbdt Ngu, Acting Director and Programme Coordinator, UNESCO,
	International Institute for Capacity Building in Africa (IICBA)
14:30	Multimedia Rich Curriculum Delivery through Technology
	Mr. Mdu Gama, Director, Mustek Ltd holding company of Mecer SA
15:00	Tea
15:30	A Strategic approach to Enabling improvements in Teaching and Learning for ALL

16:00	Microsoft's Partners in Learning - Digital Inclusion
	Mr. Alfie Hamid, Education Programme Manager, Microsoft South Africa
16:30	How Online Learning Can Reach a Global Audience
	Mr. Toby Burton, Vice President, Internet Business Solutions Group EMEA, Cisco Systems Inc.
17:00	Welcome from IFIP TC 3
	Prof. Jan Wibe IFIP TC3 Chairman
17:10	Welcome from ICOOL
	Professor Alain Senteni, University of Mauritius & Chairman ICOOL 2005
17:20	Welcome from Computer Society of South Africa
	Ms. Moira De Roche, President Computer Society of South Africa
	Professor Basie von Solms, Vice President IFIP & IFIP representative for South Africa

MR (17:30 **Welcome Cocktail**

Stellenbosch
Town Hall

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19:00)

Sponsored by Stellenbosch Municipality Dress: Jacket & Tie / Smart Casual

Tuesday, July 5th 2005

IC D (08:30 **ICOOL DEMO**

Lettere
226

–
10:00)

DM 1 (08:30 **Demo Session 1**

Lettere
225

–
10:00)

14 Anette van Rooyen, The Development of Interactive Learning Activities for ICT Integration

Country: ZA

Presenter: Anette van Rooyen

P (08:30 **Full Paper Session**

chair: Lettere
P.G. 230
Hogenbirk

01.1

–
10:00)

Pre-service Teacher Education

75 Eric Bruillard, Study and design of new modalities of learning and work for pre-service teachers assisted by ICT.

Country: FR, Further authors: Baron

Presenter: Eric Bruillard

28 Avril Loveless, Creativity and ICT as catalysts for change in Teacher Education

Country: GB

Presenter: Dr Avril Loveless

136 Jocelyn Wishart, PDAs and handheld PCs: Does potential equate to practice in initial teacher training?

Country: GB, Further authors: Andy Ramsden, Angela McFarlane

Presenter: Jocelyn Wishart

P (08:30 **Full Paper Session**

chair: Cillié
Gordon 1028
Davies

01.2

–
10:00)

The future for Lifelong Learning

408 Mike Kendall, Growing Importance of Lifelong Learning with ICT

Country: GB Presenter: Mike Kendall & Tom van Weert

- 240 Peter Williamson**, Crossing the Digital Divide in Little Bounds to the Digital Collection
Country: AU, Further authors: Kefford, Dr R.E., Steele, S.L., Vallis, K.G.
Presenter: Peter Williamson
- 275 Tommy Nordeng**, BrainBank– a Topic Maps E-portfolio System for Meaningful Learning
Country: NO, Further authors:
Presenter: Tommy Nordeng
- P 01.3** (08:30 **Full Paper Session** chair: Cillié
 - Anne 3001
 10:00) McDougall
 HE: distance education
- 48 Dagrún Sjöhelle**, Learning potential in net communication
Country: NO
Presenter: Dagrún Sjöhelle
- 145 Dolf Jordaan**, Software applications to support international collaboration between educational institutions in developed and developing countries.
Country: ZA, Further authors: Jon Gregson
Presenter: Dolf Jordaan
- 18 Anne Fuller**, Distance education teaching and tutoring: Two evolving Australian models
Country: AU, Further authors: Penney McFarlane, Patricia Cretchley, Christine McDonald, Cam Le Lam
Presenter: Anne Fuller & Patricia Cretchley
- P 01.4** (08:30 **Full Paper Session** chair: Wilcocks
 - Judy Beal 201
 10:00)
 Collaboration and interaction
- 92 Geoff Romeo**, Using scenarion planning to develop a shared vision for ICT in education
Country: AU
Presenter: Dr Geoff Romeo
- 269 Thierry Nodenot**, Creating rich Collaborative Learning Scenarios
Country: FR, Further authors: Gaio, Mauro Bessagnet, MN Sallaberry, C
Presenter: Marie-Noelle Besagnet
- 258 Steve Kennewell**, Interactive teaching with interactive technology
Country: GB
Presenter: Steve Kennewell
- P 01.5** (08:30 **Full Paper Session** chair: Wilcocks
 - Margaret 323
 10:00) Cox
 Management of Learning
- 76 Brigid Barron**, Designing a Computer Science Curriculum for Bermuda's Public Schools
Country: US, Further authors: Caitlin K. Martin, Eric Roberts
Presenter: Eric Roberts
- 289 William Marion**, Preparation for Teaching a CC2001 Discrete Structures Course: A Joint Effort
Country: US
Presenter: William A Marion
- P 01.6** (08:30 **Full Paper Session** chair: Geology
 - Paul Nicholson
 10:00)
 Learning Environments
- 126 Denis Bouhineau**, Two years of use of the APLUSIX system.
Country: FR, Further authors: Jean-Francois Nicaud, Hamid Chaachoua, Marilena Bittar and Alain Bronner.
Presenter: Denis Bouhineau
- 104 Giuseppe Chiazze**, A tool to visualize surfing paths of students.
Country: IT, Further authors: Giovanni Todaro
Presenter: Giuseppe Chiazze
- 279 Tore Hoel**, Standardization as a professional conversation - the need for auxiliary means
Country: NO
Presenter: Tore Hoel

PN 1	(08:30 - 10:00)	Panel Session KALEIDOSCOPE: A European Network for Excellence in Technology - Enhanced Learning Panelists: Martha Turcsany-Szabo Ivan Kalas Martin Owen Rosa Maria Bottino proposed by: 446 Pierre Tchounikine , KALEIDOSCOPE: A European Network for Excellence in Technology Enhanced Learning <i>Country: FR</i>	chair: Rosa Maria Bottino	Lettere 229
WS 01	(08:30 - 10:00)	Workshop 1 361 Delia Kench , Introduction to object oriented programming in Java using the GOGGA Class <i>Country: ZA, Further authors: Genevieve Wilcook</i> <i>Presenter: Delia Kench</i>		Lettere 227
C2	(10:00 - 10:30)	Coffee		Lettere Cillié
DM 2	(10:30 - 12:00)	Demo Session 2 226 Pascal Ravesteyn , Business Process Integration Lab <i>Country: NL</i> <i>Presenter: Pascal Ravesteyn</i>		Lettere 225
P 02.1	(10:30 - 12:00)	Full Paper Session In-service Teacher Education 16 Ann Trewern , Describes how a government funded nation-wide professional learning community initiative designed to strengthen teacher professional capacity in ICT <i>Country: NZ, Further authors: Nick Billowes</i> <i>Presenter: Ann Trewern</i> 13 Andy Convery , Exploring Teachers' Understanding of ICT Pedagogy in Practice <i>Country: GB, Further authors:</i> <i>Presenter: Andy Convery</i> 217 Nicola Yelland , Rethinking Curricula with ICT in the Knowledge Era <i>Country: AU, Further authors:</i> <i>Presenter: Professor Nicola Yelland</i>	chair: Deryn Watson	Lettere 230
P 02.2	(10:30 - 12:00)	Full Paper Session LLL: Dealing with Special Students 287 Wallace Chigona , Investigation on the Use and Adoptability of Information and Communication Technology (ICT) as a Tool for Improving Adult Functional Literacy in South Africa <i>Country: ZA, Further authors: 4</i> <i>Presenter: Wallace Chigona</i> 342 Anthony Jones , Changing Educational Provision for Stitronic Illness <i>Country: AU, Further authors: Margaret Robertson, Anne McDougall</i> <i>Presenter: Anthony Jones</i> 295 Gerald Futschek , Rehabilitation of Prisoners via E-Learning <i>Country: AT, Further authors: Hakan KALINYAPRAK, Horst KARGL</i> <i>Presenter: Gerald Futschek</i>	chair: Elisabeth Stacey	Cillié 1028

- P 02.3** (10:30 **Full Paper Session**
- 12:00)
chair: **Mikko Ruohonen** Cillié 3001
HE: theory and practice
- 31 Bodil Ask**, The Pedagogical Touch on e-Learning
Country: NO, Further authors: Harald Haugen (male)
Presenter: Bodil Ask & Harald Haugen
- 109 Henk Plessius**, Educating ICT in context
Country: NL, Further authors: Vodegel, Frans
Presenter: Henk Plessius
- 471 Maree Pather**, Towards Interoperable Electronic Interaction among Entities in the Educational System
Country: ZA
- P 02.4** (10:30 **Full Paper Session**
- 12:00)
chair: **Joe Turner** Wilckocks 201
What Works In The Classroom?
- 450 Tanya Harber Stuart**, Interactive Whiteboards
Country: GB
Presenter: Tanya Harber Stuart
- 298 Jenny Masters**, What Works In The Classroom? How an Exemplary Teacher Supports Children Using Computers
Country: AU
Presenter: Jenny Masters
- 313 Judy Beal**, Students Online - What works?
Country: AU
Presenter: Judy Beal
- P 02.5** (10:30 **Full Paper Session**
- 12:00)
chair: **Marta Turcsanyi-Szabo** Wickocks 323
Analysis of what is successful
- 134 Jianwei Zhang**, Harnessing Technology during the Transition of Learning Cultures in the West and East
Country: CN, Further authors: Qi Chen
Presenter: jianwei Zhang
- 114 I.E. du Toit**, The effect of ICT curriculum support on the measured skills levels of learners two sub - projects...
Country: ZA
Presenter: Isabel du Toit
- 491 Ann Lamont**, Supporting Education through Technology:
Country: ZA, Further authors:
Presenter: Fatima Adam
- P 02.6** (10:30 **Full Paper Session**
- 12:00)
chair: **Barrie Thompson** Geology
Enhancing interaction between students
- 368 M. C. Moraes**, Enhancing interaction through improvisational interface agents
Country: BR, Further authors: A.C.R. Costa
Presenter: Antônio Carlos da Rocha Costa
- 371 Michelle Denise. Leonhardt**, Doroty: An extension in the architecture of a chatterbot for academic and professional training in the field of network management
Country: BR, Further authors: Renato L.S. Dutra, Lisandro Z. Granville, Liane M.R. Tarouco
Presenter: Michelle Denise Leonhardt

- 394 Pascal Lando**, Progetto: a Design Method for Distant Collective Project-Based Learning Activities
Scenarios Patterns
Country: FR, Further authors: Anne Lapujade
Presenter: Pascal Lando
- PN 2 (10:30 Panel Session**
- ICT and Educational Management
 12:00)
- chair: Lettere
Ian Selwood 229
- Panelists:**
 Adrie Visscher NL
 Arthur Tatnall AU
 Ronald Bisaso UG
 Greg Baker AU
 Dennis Spuck US
- proposed by:**
481 Adrie Visscher, Educational Management
Country: NL, Further authors:
- WS (10:30 Workshop 2**
02 -
 12:00)
- 63 Denric Blaauw**, Developing investigative activities for innovative Science teaching into the e-LAB
Country: ZA
- L2 (12:00 - Lunch**
 13:00)
- R1 (12:30 Reflexion Session 1**
-
 13:00)
- chair: Lettere
Brian 230
Samways
- DM 3 (13:00 Demo Session3**
-
 14:30)
- 388 Lorenzo Dalvit**, E-ncedo:
Country: ZA, Further authors: Sarah Murray, Alfredo Terzoli, Xiaogeng Zhao
Presenter: Lorenzo Dalvit
- P (13:00 Full Paper Session**
03.1 -
 14:30)
- chair: Lettere
Raul Sidnei 230
Wazlawick
- E-Communities and Learning Theory
- 204 Mary Ulicsak**, Designing a computer game to support collaboration and scientific enquiry skills
Country: GB
Presenter: Martin Owen
- 402 Jon Hoem**, Personal Publishing and Media Literacy
Country: NU, Further authors: Schwebs, Ture
Presenter: Dr. Ture Schwebs
- 454 Linda Van der Loo**, Mirandanet
Country: ZA, Further authors: Christina Preston, Rupert Wegerif
Presenter: Christina Preston
- P (13:00 Full Paper Session**
03.2 -
 14:30)
- chair: Cillie
Brian 1028
Samways
- LLL: "Learning with Networks"
- 168 Kwok- Wing Lai**, OOtogoNet: A videoconferencing network for
Country: NZ, Further authors:
- 389 Juan M. Santos**, Semantic Brokerage in Standards-Driven e-Learning
Country: ES, Further authors: Luis Anido, Martín Llamas
Presenter: Luis Anido Rifon
- 251 Rosa Maria Bottino**, On line Learning Networks: Frameworks and Scenarios
Country: IT
Presenter: Rosa Maria Bottino

- P 03.3** (13:00 **Full Paper Session**) chair: Cillié 3001
 - 14:30) Lena Olsson
 HE: ICT is everywhere
- 108 Henk Plessius**, Educating ICT in a business context
Country: NL, Further authors: Pascal Ravesteijn, Leon de Bruin
Presenter: Henk Plessius
- 333 Quintin Gee**, Building a Virtual University for Orthopaedics
Country: GB, Further authors: Leslie carr, Gránne Conole, Simon Grange, Wendy Hall, Gary Wills
Presenter: Quintin Gee
- 413 Estelle Drysdale**, Adoption of a WebCT learning environment in lecture-based mining engineering education
Country: ZA, Further authors: Roger Thompson
Presenter: Estelle Drysdale and Roger Thompson
- P 03.4** (13:00 **Full Paper Session**) chair: Wilckocks 201
 - 14:30) Catherine Fulford
 Information, learning and thinking
- 379 Pam Miller**, Factors that influence interaction of high school learners with information in a digitally enhanced environment
Country: ZA, Further authors: Johannes Cronje
Presenter: Pam Miller
- 363 Maree A. Skillen**, Promoting thinking skills within the secondary classroom using digital media
Country: AU
Presenter: Maree Skillen
- 359 Christine Bescherer**, LoDiC – Learning on Demand in Computing
Country: DE
Presenter: Christine Bescherer
- P 03.5** (13:00 **Full Paper Session**) chair: Wickocks 323
 - 14:30) Adrie Visscher
 Teacher Education: theory & practice
- 334 Joyce Pittman, Ph.D.**, Technology, Pedagogy and Professional Development
Country: US, Further authors: 1
Presenter: Dr. Joyce Pittman
- 120 Andrej Blaho**, Object metaphor: From programming to building behaviours
Country: SK, Further authors: Ivan Kalas
Presenter: Ivan Kalas
- 9 Andrea Bartlett**, Technology Use by Beginning Teachers who Created Electronic Portfolios
Country: US
Presenter: Andrea Bartlett
- P 03.6** (13:00 **Full Paper Session**) chair: Geology
 - 14:30) Willis King
 Broadband, virtual experts and XML
- 116 Ian Selwood**, Teacher Use of Broadband Technology
Country: GB, Further authors: Peter Twining
Presenter: Ian Selwood
- 340 David Reid**, Collaborative IMS-LD
Country: GB, Further authors: Mark Anderson Mark Barret-Baxendale
Presenter: David Reid
- 399 Paul Nicholson**, Virtual Experts: Who's online?
Country: AU, Further authors: Julia Walsh
Presenter: Paul Nicholson

PN 3	(13:00 - 14:30)	Panel Session New Ways of Learning through ICT	chair: P.G. Hogenbirk	Lettere 229
		Panelists: Alnaaz Kassam, CA Mike Kendall, UK Anne McDougall, AU Bob Munro, UK Theo Muntingh, NL David Passig, IL proposed by: 468 Pieter Hogenbirk , New ways of learning through ict <i>Country:</i> NL, <i>Further authors:</i> see panellist <i>Presenter:</i> Pieter Hogenbirk		
WS 03	(13:00 - 14:30)	Workshop 3		Lettere 227
		256 Sigrid Schubert and Johannes Magenheim , Educational Standards of Informatics for International Student Assessment <i>Country:</i> DE <i>Presenter:</i> Sigrid Schubert and Johannes Magenheim		
T3	(14:30 - 15:00)	Tea		Lettere Cillié
HP	(15:00 - 16:30)	Full Paper Session on History on ICT in Education	chair: Sindre Rosvik	Wilckocks 323
		What can we learn from history? 96 Georges-Louis Baron , ICT, Educational technology and educational instruments - Will what has worked work again elsewhere in the future <i>Country:</i> FR, <i>Further authors:</i> Bruillard Eric <i>Presenter:</i> Baron Georges-Louis 141 John Impagliazzo , History: A vehicle for teaching introductory computing courses <i>Country:</i> US <i>Presenter:</i> John Impagliazzo 403 Paul Nicholson , eLearning: 40 Years of Evolution? <i>Country:</i> AU, <i>Further authors:</i> Anne McDougal <i>Presenter:</i> Paul Nicholson		
SP 1.1	(15:00 - 16:00)	Short Paper Session	chair: Joe Turner	Lettere 230
		Collaborative learning 443 Laura Zurita , Towards a conceptual base for evaluation of e-learning platforms in a collaborative context <i>Country:</i> DK <i>Presenter:</i> Laura Zurita 483 Diane Mavers , Making Meaning with the Ressources of Animation <i>Country:</i> GB, <i>Further authors:</i> <i>Presenter:</i> Diane Mavers 486 Jinyu Zhang , Internetics Scheme: Six Years' Practice and Experience <i>Country:</i> CN, <i>Further authors:</i> <i>Presenter:</i> Jinyu Zhang		
SP 1.2	(15:00 - 16:00)	Short Paper Session	chair: Paul Nicholson	Cillié 1028
		Higher Education 170 Lawrence Williams , The STAR Project <i>Country:</i> GB		

	100	Glenda Cox , Staff development workshops for Humanities educators: teaching with technology <i>Country: ZA, Further authors: Tony Carr, Laura Czerniewicz</i> <i>Presenter: Glenda Cox</i>		
	20	Anne Fuller , Encouraging participation in electronic discussion forums <i>Country: AU, Further authors: Penney McFarlane, Cam Le Lam</i> <i>Presenter: Anne Fuller, Penney McFarlane</i>		
SP 1.3	(15:00 - 16:00)	Short Paper Session Assessment and online environments	chair: Rosa Maria Bottino	Cillié 3001
	82	Franziska Keller , Personalization of Online Assessments on the basis of a taxonomy matrix <i>Country: CH, Further authors: Prof. Dr. Helmut Schauer</i> <i>Presenter: Franziska Keller</i>		
	231	Paul McKimmy , Proving our Outcomes : The Task of Implementing Electronic Portfolio Assessments <i>Country: US</i> <i>Presenter: Paul McKimmy</i>		
	404	Shaun Nykvist , Establishing a sense of community within an online learning environment using open source software <i>Country: AU</i> <i>Presenter: Shaun Nykvist</i>		
SP 1.4	(15:00 - 16:00)	Short Paper Session Interactive learning	chair: Gordon Davies	Wilckocks 201
	427	QUEK Geok Cheng LAK Yau Hui , Designing Interactive Resources for Singapore Schools <i>Country: SG</i> <i>Presenter: QUEK Geok Cheng</i>		
	386	Robert Gajewski , e-Learning in Polish Universities of Technology <i>Country: PL</i> <i>Presenter: Robert Gajewski</i>		
	69	Betty Breed , Effective Learning in Computer Programming: The Role of Learners' Reflective Thinking <i>Country: ZA, Further authors: J.L. de K. Monteith ; E. Mentz</i> <i>Presenter: Betty Breed:</i>		
WS 04	(15:00 - 16:30)	Workshop 4 242 Pieter Hogenbirk , Portraying professional development of teachers <i>Country: NL, Further authors: Theo Muntingh</i> <i>Presenter: Pieter Hogenbirk</i>		Lettere 227
DM 4	(16:30 - 18:00)	Demo Session 4 418 Lori Rounds , Teaching Internet Safety with i-Safe America <i>Country: US, Further authors: Teri Schroeder (President and Founder, i-SAFE America)</i> <i>Presenter: Lori Rounds, Teri Schroeder</i>		Lettere 225
P 04.1	(16:30 - 18:00)	Full Paper Session E-Inclusion	chair: Marta Turcsanyi-Szabo	Lettere 230
	30	Birgitte Sorensen , Children's informal learning forms in the school context <i>Country: DK, Further authors: Oluf Danielsen</i> <i>Presenter: Birgitte Holm Sørensen, Oluf Danielsen, Janni Nielsen</i>		
	180	Lisa Seymour , The influence of demographic variables on web-based learning tool perceptions and adoption intent <i>Country: ZA, Further authors: Irwin Brown</i> <i>Presenter: Lisa Seymour</i>		

- | | | | | |
|-------------|--|--|----------------------------|-----------|
| | 445 | Hermann Puhlmann , Essential ingredients of literacy in informatics
<i>Country:</i> DE, <i>Further authors:</i> Ludger Humbert
<i>Presenter:</i> Hermann Puhlmann | | |
| P | (16:30 | Full Paper Session | | |
| 04.2 | - | | chair: | Cillié |
| | 18:00) | | Ian Selwood | 1028 |
| | LLL: ICT and the Learner | | | |
| | 347 | Luis Anido , Integration of ICT into the Post-graduate Studies in a Conventional University
<i>Country:</i> ES, <i>Further authors:</i> Diego Conde, Juan Aguiar, Antón Fernández, Emilio González
<i>Presenter:</i> Luis Anido Rifon | | |
| | 67 | Duan van der Westhuizen , The student at risk in online learning: The case for appropriate research
<i>Country:</i> ZA, <i>Further authors:</i> Elizabeth Henning
<i>Presenter:</i> Duan vd Westhuizen | | |
| | 439 | Bent B. Andresen , Best Practice in Professional Development
<i>Country:</i> DK, <i>Further authors:</i> Brian Knudsen
<i>Presenter:</i> Bent B. Andresen | | |
| P | (16:30 | Full Paper Session | | |
| 04.3 | - | | chair: | Cillié |
| | 18:00) | | Alain Senteni | 3001 |
| | HE: creativity and learning | | | |
| | 1 | Ada Wai Wing MA , Fostering Creativity in a CSCL Environment
<i>Country:</i> HK
<i>Presenter:</i> Ada Wai Wing MA | | |
| | 107 | Hélène Godinet , Scenario for Collaborative Learning in a Digital Campus : What Works ?
<i>Country:</i> FR
<i>Presenter:</i> Helene Godinet | | |
| | 447 | Nils Ole Nilsen , Digital Portfolios - a Method for Learning and Assessment in Higher Education
<i>Country:</i> NO
<i>Presenter:</i> Nils Ole Nilsen | | |
| P | (16:30 | Full Paper Session | | |
| 04.4 | - | | chair: | Wilckocks |
| | 18:00) | | Brian Samways | 201 |
| | Teaching and Learning with ICT | | | |
| | 205 | Mary Webb , Teachers' pedagogical decision making and practices in relation to the use of ICT for learning and teaching
<i>Country:</i> GB, <i>Further authors:</i> Margaret Cox
<i>Presenter:</i> Mary Webb and Margaret Cox | | |
| | 207 | Anders Tveit , The integration of economic and human resource aspects by using computer bases tools
<i>Country:</i> NO, <i>Further authors:</i> Emanuel Blattner and Stig Ytterstad
<i>Presenter:</i> Anders Tveit, Emanuel Blattner and Stig Ytterstad | | |
| | 86 | Gail Weldon , Integrating Education for Human Rights and Democracy with ICT
<i>Country:</i> ZA, <i>Further authors:</i> | | |
| P | (16:30 | Full Paper Session | | |
| 04.5 | - | | chair: | Wilckocks |
| | 18:00) | | Asbjoern Rolstadaas | 323 |
| | Case studies in using ICT in Teacher Education | | | |
| | 305 | Keth Vallis , An Immersion Model for Teacher Training in the Integration of Technology: The Impact on Teaching and Learning
<i>Country:</i> AU, <i>Further authors:</i> Dr. Rod Kefford, Steven Steele, Peter Williamson
<i>Presenter:</i> Keith Vallis | | |
| | 411 | Nick Reynolds , A Constructivist Learning Environment in Undergraduate IT
<i>Country:</i> AU
<i>Presenter:</i> Nick Reynolds | | |
| | 99 | Giovanni Fulantelli , A model to train teachers on the educational value of hypertexts
<i>Country:</i> IT
<i>Presenter:</i> Giovanni Fulantelli | | |

P	(16:30 Full Paper Session	chair:	Geology
04.6	-	Erling	
	18:00)	Schmidt	
	Digital Learning Resources		
	434 Mark Pullen , Presenting an Online Graduate Computer Science Program at Low Cost Using Open-Source Software <i>Country: US</i>		
	175 Lillian Cassel , A Digital Library for Cyberlearning in the Sciences (originally: The U.S. National Science Digital Library) <i>Country: US, Further authors: Lee Zia</i> <i>Presenter: Lillian N. Cassel</i>		
PN 4	(16:30 Panel Session	chair:	Lettere
	- What works and what does not work?	Raymond	229
	18:00)	Morel	
	Panelists: Niki Davis UK Andrea Karpati HU Christina Preston, UK		
	proposed by:		
	219 Niki Davis , What works and what does not? <i>Country: US, Further authors: Andrea Karpati</i> <i>Presenter: Niki Davis</i>		
GD	(18:30 Gala Dinner		Outside
	-		Lettere
	23:00)		
	Sponsored by Mecer South Africa		
	Dress: Jacket & Tie / Traditional		
	Busses will pick up delegates from the front of Lettere Building at 18:30		

Wednesday, July 6th 2005

IC D	(08:30 - 10:00)	ICOOL DEMO		Lettere 226
IC 1	(08:30 - 10:00)	ICOOL 1		Lettere 223
IC 2	(08:30 - 10:00)	ICOOL 2		Lettere 225
P 05.1	(08:30 - 10:00)	Full Paper Session	chair: John Hughes	Lettere 230
	Online Learning Environments			
70	Elizabeth Stacey , Problem -based learning in an online environment. <i>Country:</i> AU <i>Presenter:</i> Dr Elizabeth Stacey			
393	Giuseppe Callegarin , Distributed School Lab Experiments Through Web Services <i>Country:</i> IT <i>Presenter:</i> Giuseppe Callegarin			
407	John Pearson , Evaluating E-learning Environments using the Online Learning Environment Survey <i>Country:</i> HK <i>Presenter:</i> John Pearson			

- P 05.2** (08:30 **Full Paper Session**
- 10:00)
Lifelong Learning - the way ahead
- chair: Cillié
Adrie 1028
Visscher
- 263 Sylvia Martinez**, Bridging the Digital Divide with Peer-Assisted ICT Instruction
Country: US
Presenter: Sylvia Martinez
- 237 Cathleen Greiner**, A Changing Paradigm of Adult Learning: Accessible, Accelerated, Adaptable, Applicable
Country: US, *Further authors:* Serdyukova, N., Subbotin, I. and Serdyukov, P.
Presenter: Peter Serdyukov
- 484 Brian Samways**, Concluding Discussion for Lifelong Learning Stream
Country: GB, *Further authors:*
- P 05.3** (08:30 **Full Paper Session**
- 10:00)
HE: professional training
- chair: Cillié
Arthur 3001
Tatnall
- 154 Karin Levinsen**, Qualifying on-line teachers
Country: DK
Presenter: Rikke Orngreen
- 173 Leng-Seow Tan**, Application of a web-based interactive homework system for a course in electrical engineering
Country: SG, *Further authors:* W. B. Tan, W. M. Tay
Presenter: Leng-Seow Tan
- 469 M. Schwesig**, An E-learning experiment in manufacturing strategy
Country: DE, *Further authors:* Rolstadas, A. and Thoben K.-D.
Presenter: Asbjorn Rolstadas
- P 05.4** (08:30 **Full Paper Session**
- 10:00)
Technology-enhanced learning for the future
- chair: Wilckcocks
Torbjørg 201
Breivik
- 97 Peter de Lisle**, How has Intel Teach to the Future worked in South Africa?:
Country: ZA
Presenter: Peter de Lisle
- 138 John Belcher**, Technology enabled active learning at MIT
Country: US, *Further authors:* Dori, Y. J., Dourmashkin, P., Liao, S-B.
Presenter: John Belcher
- 246 Richard Ager**, The Digital Backdrop - using ICT to enhance whole class science teaching
Country: GB
Presenter: Richard Ager
- P 05.5** (08:30 **Full Paper Session**
- 10:00)
National and local approaches
- chair: Wilckcocks
Anna 323
Grabowska
- 59 David Whyley**, Placing the learner at the heart of the system - A city wide approach to the personalised learning agenda.
Country: GB, *Further authors:* Tim Westwood
Presenter: David Whyley and Tim Westwood
- 451 John Scipio**, The KHANYA Methodology for ICT Implementation in Schools
Country: ZA
- 249 Robert Munro**, Impact of ICT Initiatives in Scottish Schools
Country: GB

PN 5	(08:30 - 10:00)	Panel Session History: A Vehicle for Teaching Introductory Computing	chair: Jan Wibe	Lettere 229
		Panelists: John Impagliazzo US Georges-Louis Baron F Paul Nicholson AU proposed by: 475 John Impagliazzo , Using history to teach computing <i>Country:</i> US <i>Presenter:</i> John Impagliazzo		
WS 05	(08:30 - 10:00)	Workshop 5 460 Leah Keino , Electronic learning portfolios <i>Country:</i> US, <i>Further authors:</i> Niki Davis <i>Presenter:</i> Leah		Lettere 227
C3	(10:00 - 10:30)	Coffee		Lettere Cillié
IC D	(10:30 - 12:00)	ICOOL DEMO		Lettere 226
IC 1	(10:30 - 12:00)	ICOOL 1		Lettere 223
IC 2	(10:30 - 12:00)	ICOOL 2		Lettere 225
P 06.1	(10:30 - 12:00)	Full Paper Session Research and Formative Assessment 464 Margaret Cox , Effects of ICT: Do we know what we should know? <i>Country:</i> GB, <i>Further authors:</i> Gail Marshall <i>Presenter:</i> Margaret Cox and Gail Marshall 127 Jeanne Marie Ho , Informating Formative Assessment with Technology <i>Country:</i> SG, <i>Further authors:</i> Peh, James and Seah, Whye Choo <i>Presenter:</i> Jeanne Ho 183 Lori Breslow , Lessons learned: Formative assessments of EdTech initiatives at the Massachusetts Institute of Technology, 2000 - 2004 <i>Country:</i> US <i>Presenter:</i> Lori Breslow	chair: Rosa Maria Bottino	Lettere 230
P 06.2	(10:30 - 12:00)	Full Paper Session Computer Science and the setting of standards 37 Charmain Cilliers , The Impact of an Iconic Programming Notation on Low - Ability Introductory Programming Students <i>Country:</i> ZA, <i>Further authors:</i> Andre Calitz; Jean Greyling <i>Presenter:</i> Jean Greyling 355 Agostino Cortesi , The Quality Certification Mark for Italian University Degree Programs in Computer Science <i>Country:</i> IT, <i>Further authors:</i> Enrico Nardelli <i>Presenter:</i> Agostino Cortesi 376 Kechil Kirkham , The value of teaching using a live ERP System with resource constraints <i>Country:</i> ZA, <i>Further authors:</i> Dr. Lisa Seymour <i>Presenter:</i> Kechil Kirkham	chair: Johannes Magenheim	Cillié 1028

- P 06.3** (10:30 **Full Paper Session**
- 12:00)
HE: on-line learning
- chair: Cillié
Ingeborg Solvberg 3001
- 208 Michael Hammond**, Using on- line discussion to support teaching and learning: opportunities and challenges
Country: GB, Further authors: Mongkolchai Wiriapinit
Presenter: Michael Hammond
- 238 Peter Smith**, Solving problems collaboratively online: Experiences of Australian and Chinese Heritage university students
Country: AU, Further authors: S.N. Smith, J. Coldwell, K.L. Murphy
Presenter: Peter J Smith, Swee N Smith
- 384 Jane Nash**, To cross the digital divide, first leap the language barrier
Country: ZA, Further authors: Mullins, C., Speight, H. and Van Heerden, M.
Presenter: Jane Nash
- P 06.4** (10:30 **Full Paper Session**
- 12:00)
Technology and Learning Activities
- chair: Wilckocks
Gordon Davies 201
- 12 Andrew Fluck**, Authentication and e-learning
Country: AU
Presenter: Dr. Andrew E. Fluck
- 387 Manuel Caeiro-Rodríguez**, Improving the Modelling of Heterogeneous Learning Activities
Country: ES, Further authors: Luis Anido-Rifón, Martín Llamas-Nistal
Presenter: Luis Anido-Rifón
- 139 John Cuthell**, Seeing the meaning. The impact of interactive whiteboards on teaching and learning
Country: GB
Presenter: John Cuthell
- P 06.5** (10:30 **Full Paper Session**
- 12:00)
National success stories
- chair: Wilckocks
Leif Hokstad 323
- 277 Torbjoerg Breivik**, Action Plan for Norwegian Language and ICT and the Norwegian Human Language Technology (HLT) Resource Collection
Country: NO
Presenter: Torbjoerg Breivik
- 166 Kobus van Wyk**, Khanya - a success story of implementing ICT in a developing country
Country: ZA
Presenter: Kobus van Wyk
- 332 Arthur Tatnall**, The Formation and Role of State Centres of Computer Education in Australia in the 1980s
Country: AU
Presenter: Arthur Tatnall
- PN 6** (10:30 **Panel Session**
- 12:00)
Political/social importance of Lifelong Learning with ICT
- chair: Lettere
Brian Samways 229
- Panelists:**
Mike Kendall UK
Tom van Weert NL
Peter Williamson AU
Sylvia Martinez US
Jianwei Zhang CN
- proposed by:**
- 357 Mike Kendall**, Lifelong Learning Panel
Country: GB, Further authors: Tom van Weert
Presenter: Tom van Weert

WS 06	(10:30 - 12:00)	Workshop 6 World E-citizens 457 Christina Preston , World E-citizens <i>Country: GB</i>		Lettere 227
L3	(12:00 - 13:00)	Lunch		Lettere Cillié
R2	(12:30 - 13:00)	Reflexion Session 2	chair: Brian Samways	Lettere 230
IC D	(13:00 - 14:30)	ICOOL DEMO		Lettere 230
IC 1	(13:00 - 14:30)	ICOOL 1		Lettere 223
IC 2	(13:00 - 14:30)	ICOOL DEMO		Lettere 225
P 07.1	(13:00 - 14:30)	Full Paper Session Tools for tutoring 193 Marianne Georgesen , Flexible teaching and learning <i>Country: DK</i> <i>Presenter: Marianne Georgesen</i> 248 Marie-Noelle Bessagnet & Judith Israel , Helping to Network (Groups of) Learners Using a Collaborative Learning System <i>Country: US, Further authors: Robert Aiken</i> <i>Presenter: Marie-Noelle Bessagnet</i> 383 Cédric Buche , Intelligent Tutoring system for procedural and collaborative training <i>Country: FR, Further authors: Le Gal, Querrec</i> <i>Presenter: Ronan Querrec</i>	chair: Niki Davis	Lettere 230
P 07.2	(13:00 - 14:30)	Full Paper Session Informatics, computer toys and drop-out rate 110 Hermann Puhlmann , Exploring Test Items in the PISA-style for Informatics <i>Country: DE</i> <i>Presenter: Hermann Puhlmann</i> 197 Mark Barrett- Baxendale , Adaptive individualised IMS Learning Design player <i>Country: GB, Further authors: David Reid, Paul Hazlewood, Mark Anderson</i> <i>Presenter: Mark Barrett-Baxendale (subject to confirmation)</i> 159 Keith Gibson , Dealing with the drop-out rate <i>Country: ZA</i> <i>Presenter: Keith Gibson</i>	chair: Doug Brown	Cillié 1028
P 07.3	(13:00 - 14:30)	Full Paper Session Disseminating ICT skills in Higher Education 306 Oduronke Eyitayo , The Existing and Coming Generation of Computer Proficient Students: Implications for Teaching ICT Literacy at Higher Institutions in Botswana <i>Country: NG, Further authors: Eyitayo, Adekunle.O</i> <i>Presenter: Oduronke</i> 311 Catherine Fulford , Diffusion of Innovations: <i>Country: US, Further authors: Rachel Rivers, Ariana Eichelberger, Curtis Ho, Gary Theal</i> <i>Presenter: Catherine P. Fulford, Ph.D.</i>	chair: Gerald Futschek	Cillié 3001

	Fri, 1 st	Sat, 2 nd	Sun, 3 rd	Mon, 4 th	Tue, 5 th	Wed, 6 th	Thu, 7 th
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19:30							

Registration

Participants for the Round Table & Workshop can register on the WCCE 2005 Website for the full WCCE conference or just the one day. Full details are on the web site re: accommodation and airport transport if required.

Fees

Full WCCE Conference Rand 4100 Approx €512

One day fee including
UNITAR Round Table
& Workshop Rand 1400 Approx €175

Registration can be made on-line at:
<http://www.wcce2005.org.za>

WCCE 2005 Secretariat

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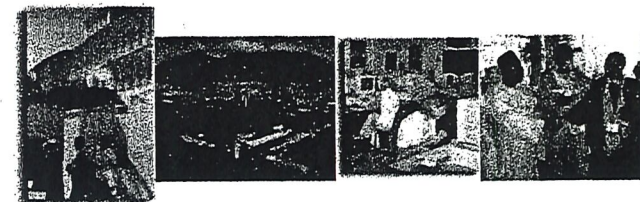
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In the context of the



World Conference on Computers in Education



University of Stellenbosch
Cape Town, South Africa

6 July 2005
15:00—18:00

ROUND TABLE
&
WORKING SESSION

MOBILIZING EXPERTISE AND
RESOURCES FOR DIGITAL SOLIDARITY
IN EDUCATION

CONTRIBUTION TO THE BILBAO SUMMIT

The issues: what is at stake

Information is a strategic resource for local policy makers, who have become key players in bringing about sustainable development and meeting the increasing needs of their citizens. The effective use of knowledge through information and communications technology (ICT) can make a powerful positive contribution to accelerate community development and improve people's lives. Local authorities are at the forefront of implementation of ICT as a catalyst in the life long process of education and learning for the local population.

World Summit of Cities and Local Authorities

Cognizant of their leadership role in the Information Society, cities and local authorities worldwide have mobilized to make their voices heard and channeled their efforts in a movement which culminated with the First World Summit of Cities and Local Authorities on the Information Society, held in Lyon in December 2003. The results of the Lyon Summit were included in the World Summit on the Information Society (WSIS), held in Geneva later that same month. The second step in this process for local authorities is the Second World Summit of Cities and Local Authorities on the Information Society to be held in Bilbao (Bilbao Summit) November 9-11, 2005. Preparations for the Bilbao Summit are twofold: 1) strong political mobilization of key decision makers and 2) organization of thematic and regional conferences which could provide the strategic guidance around which local authorities intend to play their role in the Information Society and develop e-services for their population. The Bilbao Summit will be a platform for setting up public-private partnerships to catalyze development and access to ICTs for local communities. The result of the conference will be a Declaration and Plan of Action of Local Authorities which will be presented at the Second WSIS to be held in Tunis.

The Stellenbosch Conference: a major step on the way to the Bilbao Summit

The IFIP World Congress on Computers in Education (WCCE 2005) 4-7 July at the University of Stellenbosch is a major gathering, bringing together people interested in learning about the potential for ICT in education – academics and researchers, politicians and policy makers, businesses and the private sector, NGOs and international organizations. One half day will be dedicated to local authorities. The outcome of the one day meeting will include proposals for public-private partnerships, as well as recommendations will serve as a basis for the Bilbao Summit Plan of Action.

PARTICIPANTS

- ◆ Local decision makers, representatives from local communities and authorities
- ◆ Professionals in education and e-education, academics
- ◆ Researchers on knowledge management and researchers on new training methodologies
- ◆ Private sector players in the education field



PROGRAMME

There is a need for a new framework to improve the process and efficiency of education and training activities in line with the new possibilities of the Information Society. The Round Table on **Mobilizing Expertise and Resources for Digital Solidarity in Education** will address a new framework for partnership and identify bottlenecks, as well as recommend strategic actions to be taken in order to scale up good practices and efficiently mobilize all potential expertise and resources.

The panel will specifically address the following:

1. The role and responsibilities of cities, local government and states in policy making, development, and implementation of education programmes
2. The role and recommendations of experts on an appropriate model of training and education in the Information Society
3. Strategic actions and implementation modalities to be recommended
4. Building public-private partnerships to enhance efficiency and broaden the scope of existing programmes

15:00-16:30 ROUND TABLE

Introduction

- ◆ Bernard Cornu, IFIP
- ◆ Amadou Top, Vice President, Digital Solidarity Fund
- ◆ Michael Oliver Sutcliffe, Secretary General of the City of Durban

Panel participants will be representatives from:

- ◆ Major local authorities and national governments
- ◆ NEPAD network
- ◆ G3 cities (South Africa, Brazil, India)
- ◆ IFIP
- ◆ Private companies
- ◆ Digital Solidarity Agency
- ◆ Digital Solidarity Fund
- ◆ World Commission of Cities on Decentralized Cooperation

Break

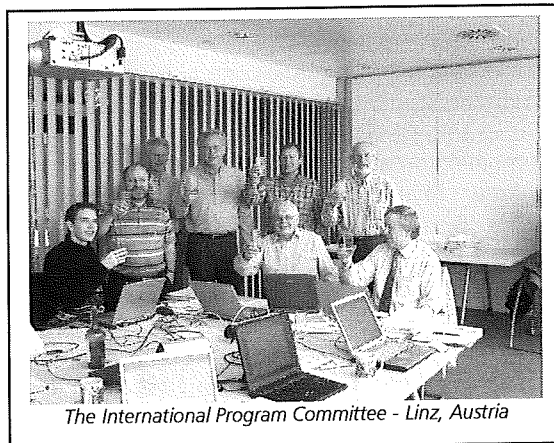
16:40-18:00 INTERNAL WORKING SESSION

WCCE 2005

DAILY

Welcome to the friendliest city in SA

Yesterday afternoon's plenary session extended a warm welcome to over 600 delegates, speakers and exhibitors attending the WCCE 2005 Conference and Exhibition, representing over 40 countries from around the world. Deputy Minister of Education, Mr Enver Surty gave a humorous, yet challenging speech on the importance ICT plays in realising the goals and challenges of our educational, social, economic and political development. He reiterated how the responsibility in preparing our youth and society rests heavily on our shoulders. Dr Joseph Gnu, Acting Director for UNESCO International Institute for Capacity Building in Africa (UNESCO IICBA) agreed that the use of ICTs in education is a major challenge worldwide, but one which demands urgent attention particularly in Africa. UNESCO has been deeply involved in assisting African countries in addressing this challenge. The question is – what can YOU do? The answer? Over the next couple of days listen, observe, share knowledge and gain an understanding of "What Works".



The International Program Committee - Linz, Austria

Streams by topic

Still confused by which session to attend over the next few days? Here is a brief overview allocated by topic.

A. Learning Theory and Research

Stream 1 (24 papers)

3.1; 4.1; 5.1; 6.1; 7.1; 8.1; 9.1; 10.1

B. Teacher Education (21 papers)

Stream 1: 1.1; 2.1

Stream 5: 3.5; 4.5

Stream 4: 8.4; 9.4; 10.4

C. Management & Policies

Stream 5 (24 papers)

1.5; 2.5; 5.5; 6.5; 7.5; 8.5; 9.5; 10.5

D. Methods & Pedagogy

Stream 4 (21 papers)

1.4; 2.4; 3.4; 4.4; 4.4; 5.4; 6.4; 7.4

E. Lifelong Learning

Stream 2 (15 papers)

F. Higher Education

Stream 3 (24 papers)

1.3; 2.3; 3.3; 4.3; 5.3; 6.3; 7.3; 8.3

G. Informatics Education

Stream 2 (15 papers)

6.2; 7.2; 8.2; 9.2; 10.2

H. Software & Hardware

Stream 6 (12 papers)

1.6; 2.6; 3.6; 4.6

I. Professional and Vocational

Stream 3 (6 papers)

9.3; 10.3

J. History

Stream 3 (3 papers)

HP

The Stellenbosch Declaration – a WCCE 2005 Initiative

As well as providing a platform for sharing experiences and knowledge, we would like this conference to have significant outputs to a wider, global audience. Enter the Stellenbosch Declaration. The Declaration will be a three page document, addressing the principles, ideas, trends and recommendations considered essential for the future of ICT in education. We are asking for contributions from the Session Chairs, speakers and delegates.

The final Declaration will be presented and discussed at the Plenary Closing on Thursday, which will be attended by the IFIP President.

Southern Hemisphere Connection

IFIP's Working Group on ICT in university education (WG3.2) now has a 'southern hemisphere' look. It is perhaps appropriate that it is in Stellenbosch, South Africa, that WG Chair, John Hughes from Australia and Vice Chair, Raul Wazlawick from Brazil worked with other members from Europe and the USA to prepare a programme of activities over the next three years.

While we might be in South Africa, the issues needing to be resolved are global and pervasive. What should be taught to computing students to make them effective professionals of the future?

The Declaration will then be presented at the World Summit on the Information Society, which will be held in Tunis in November 2005.

Chairpeople to submit three ideas or recommendations from your sessions.

Speakers to submit one idea or recommendation from your paper.

Delegates may also make individual contributions.

Each idea must be a maximum of three lines and all contributions must please be submitted using the form provided, which can be collected at the Registration Desk.

How can information technology be used to make learning more effective across the whole university curriculum? In this global village, increasingly virtual, how can we learn from each other?

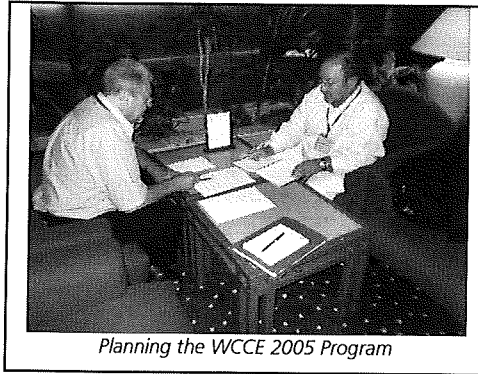
The program of activities therefore will look at international curricula in informatics and software engineering, reviewing progress in the major initiatives, identifying 'best practice' around the world, and identifying what makes an IT professional.

If you would like to submit something for tomorrow's newsletter, please contact Kirsten Moller via the Registration Desk.

8th IFIP WORLD CONFERENCE on COMPUTERS in EDUCATION

What, in the World, is Distance Education?

WG 3.6 held a seminar and their Annual General Meeting yesterday. Elizabeth Stacey and Gordon Davies invited 9 speakers from 7 countries to join the discussion on what is happening in distance education around the world. Many similarities were found between countries; students still preferred face-to-face classes to online, and blended learning combining on and off campus classes were prevalent in all countries.



Planning the WCCE 2005 Program

The final speakers (Mike Chiles – W.Cape Education Dept, and Kim Tucker – CSIR) gave a fascinating report on Africa, describing the conditions in South Africa and the challenges faced to provide distance education solutions to children affected by HIV/Aids, or in rural communities with limited resources and access to teachers.

Lifelong Learning now a SIG

At its TC3 meeting last weekend, the members approved the creation of its first Special Interest Group (SIG). It will be concerned with the role of both Informatics and the resulting Information and Communication Technologies (ICT) that enable each citizen and worker to adapt to the knowledge-based society and actively participate in all spheres of social and economic life.

The new SIG on Lifelong Learning will look particularly at the interaction between the different ways of acquiring and updating all kinds of abilities, interests, knowledge and qualifications.

If you wish to contribute to the new SIG on Lifelong Learning, or can recommend a colleague who is a leader or expert in their area, please visit our TC3 website at www.edu.ge.ch/cptic/prospective/projets/ifip or contact SIG 3.8 Chair, Brian Samways.

Gala Dinner SOLD OUT

(please remember your
ticket tonight)

Just some of the challenges facing the use of ICTs in Education in Africa

- *How do we develop a curriculum and learning architecture acceptable to our people?*
- *How can we develop and implement effective, flexible, affordable and sustainable delivery methodologies?*
- *What ICT networks exist in our countries for educational purposes?*
- *What are the costs, management and utilization implications of bandwidth used in our educational systems?*
- *What of the challenge of teledensity in Africa?*
- *What must we do to increase the number of computers in Africa?*
- *How do we redress the regional disparities in the use of computers?*

Dr. Joseph N. Ngu, UNESCO

Lost but not Found

Have you found a lunch ticket? One delegate went to collect his lunch yesterday but had lost his ticket. Of course he was told "No ticket – no lunch". The unfortunate delegate was none other than our Conference Chair, Professor Bernard Cornu!

TC3 New Member Recruit

To become a member of one of the TC3 Working Groups, please contact the relevant person below.

WG 3.1 Deryn Watson
Informatics education at the secondary level

WG 3.2 John Hughes
Informatics education at the university level

WG 3.3 Paul Nicholson
Research on education applications on information technologies

WG 3.4 Barrie Thompson
Vocational education and training

WG 3.5 Sindre Rosvik
Informatics in elementary education

WG 3.6 Elizabeth Stacey
Distance Education

WG 3.7 Adrie Visscher
Information Technology in Education Management

SIG 3.8 Brian Samways
Lifelong Learning

IFIP / WCCE – A History

- 1970: Amsterdam, Netherlands
- 1975: Marseille, France
- 1980: Lausanne, Switzerland
- 1985: Norfolk, USA
- 1990: Sydney, Australia
- 1993: Teleteaching, Norway TC3
- 1995: Birmingham, UK
- 2001: Copenhagen, Denmark
- 2005: Cape Town, South Africa
- 2009: Brazil

Looking forward to seeing you there!

Quotes of the day

"School leavers have been exposed to more information than their grandparents were in a lifetime" – *Deputy Minister of Education, Mr Enver Surty*

"With more than 200 teachers sponsored to attend, hopefully they will be motivated to use computers in the classroom, thereby improving the standard of education in South Africa" – *Vice President, IFIP, Prof Basie von Solms*

"I am excited to learn from people from all over the world and hopefully take back some solutions which might address the many challenges facing both learners and teachers" – *Ministry of Education, Botswana, Ragton Mazhami*

Decision Making Strategies

- ▷ Use the results of research
- ▷ Use a systemic approach
- ▷ Involve all stakeholders
- ▷ Promote regional and international cooperation
- ▷ Promote trust and security in the use of ICT

Teachers

- ▷ The new role and mission of teachers in the knowledge society
- ▷ Select good teachers and make the teaching profession attractive
"Technology matters, good teachers matter more"
- ▷ Empower teachers with teaching skills and ICT
- ▷ Teacher professional development



Dr Klaus Brunnstein

Meet the IFIP President

IFIP President, Mr Klaus Brunnstein arrived yesterday in time to attend and participate in the afternoon sessions.

As Professor for Applications of Informatics, Hamburg University and an active member of IFIP since 1976, it is no surprise that he was elected President in 2002.

In 1976 he founded TC9 "Relationship between Computers and Society". Interestingly, Dr Brunnstein is an active educator with a vested interest in Data Protection and yet has never worked on TC 3 (Education) or TC 11 (Security). "TC3 is one of the finest TCs as it attracts young people and teachers, and has a multi-faceted forward vision. I feel it is one of the essential TCs and it is wonderful to be working with International Partners such as UNESCO and UNITAR."

Even with his busy schedule as President of IFIP, Dr Brunnstein says it is an honour to be invited to speak at this event of such significance. Dr Brunnstein will be addressing the conference on the role of education in the information society at the closing session today at 12:00 in Lettere 230.

The Online Learning environment:

A useful tool, some interesting research and a fascinating case-study .

John Pearson from the University of Hong Kong, together with Sue Trinidad, has developed a useful tool for evaluating the use of the online environment for teaching and learning. Students can respond to questions about ACTUAL practice and also complete their PREFERRED response. Discrepancies between these two indicators give teachers and institutions valuable data about the success of online learning.

Michael Hammond from the University of Warwick, UK, examined the literature about online learning and highlighted points such as the uncritical acceptance of a social constructivist model underlying online learning. His case study research found time constraints of business students affected their ability to take a deep learning approach in group work. They maximise their learning in minimal time with a focus on assessment tasks. He advises cautious optimism about teaching and learning online.

Peter Smith, (working with other colleagues)

reported their study comparing two groups of undergraduate third-year computer science students on campus. One comprising Australian first language English speakers and the other students of Chinese Heritage Culture (CHC) whose first language is Chinese but who were competent in English. Studying computer ethics in fully online student-facilitated small groups was found to be highly unpopular with all the students. The Australian students saw this as an issue of time taken and inefficiency with little challenging of ideas as it was too time-consuming to do so.

The CHC students found the Australian straightforward style of posting immediately about the task confronting and intimidating and found it hard to join in the discussions. They felt cheated and marginalised and preferred face-to-face groups and more teacher-facilitation. Their messages were as frequent as the Australian students, but were more organisational and less intellectual in content with half the number of words written. Interestingly they socialised as much online as the Australians.

Dr. Elizabeth Stacey, Deakin University, Australia



www.wcce2005.org.za

WCCE 2005

WCCE Daily produced by Kirsten Moller
with many thanks to Elizabeth Stacey
for all her help

DAILY

Thursday 7 July 2005

Farewell, Totsiens, Hambani kakuhle, Hambakahle

(Goodbye in four of South Africa's eleven official languages – English, Afrikaans, Xhosa and Zulu)

Today we reach the end of the 8th IFIP WCCE. We learned a lot, experienced a lot, increased our networking and developed our "collective intelligence" together. Holding the WCCE in Africa, IFIP has been humanly and intellectually enriched. But the closing of WCCE is not an end, it is just the beginning! We will start new projects, applying what we learnt in Stellenbosch. We will continue networking our networks together. And the Stellenbosch Declaration will forward ideas and recommendations to decision and policy makers all around the world. I hope you enjoyed the WCCE and your stay in South Africa. I wish you a safe return home, and we all look forward to meeting each other again at future IFIP events!

Prof. Bernard Cornu, Chairperson, International Program Committee



Prof Cornu at the Gala Dinner

The Stellenbosch Declaration – a draft framework

Your thoughts and recommendations in brief – to be discussed and finalised at the Closing Session.

Digital Solidarity

- ▷ Infrastructure for global collaboration to share knowledge, experience and perspectives
- ▷ Equal and open access to digital information, content and media for all
- ▷ Approach to networks for digital communication and support to establish interaction and collaboration among students and teachers worldwide
- ▷ A Digital Solidarity Act - all stakeholders agree on the importance of fighting the digital divide and the principles for doing this

Learner and Life Long Learning

- ▷ Academic learning
- ▷ Professional, vocational learning
- ▷ Citizenship and social responsibility learning
- ▷ Non-formal learning
 - Through tradition and culture
 - Through social and cultural environment

Networking

- ▷ Network the Knowledge Society globally and locally and that it has a consequence on policies and on the way educational systems are organised
- ▷ Enable people to be part of networks in each community, country and internationally. All countries should take part in international educational projects
- ▷ Encourage and develop partnerships and involve all stakeholders
- ▷ Facilitate collaborative work, exchange, cooperation and new learning environments
- ▷ e-Learning as a way for Education for All

Research

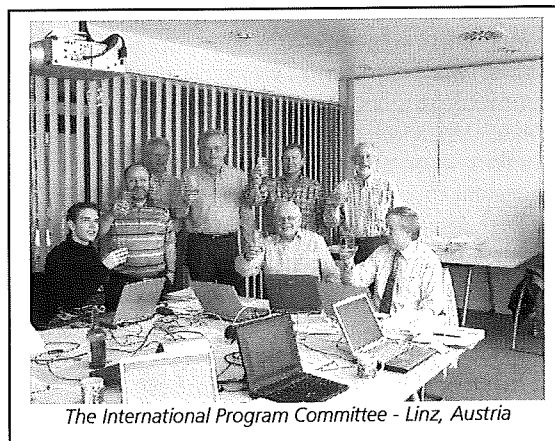
- ▷ Take into account all cultures in research, not only western
- ▷ Research results should be used by decision-makers
- ▷ Look at results critically, in terms of possibility of generalizing and different cultures
- ▷ Ensure public / private research is balanced and complementary
- ▷ Establish a mutual understanding between researchers and practitioners
- ▷ Conduct research exploring different learning settings, such as informal learning

WCCE 2005

DAILY

Welcome to the friendliest city in SA

Yesterday afternoon's plenary session extended a warm welcome to over 600 delegates, speakers and exhibitors attending the WCCE 2005 Conference and Exhibition, representing over 40 countries from around the world. Deputy Minister of Education, Mr Enver Surty gave a humorous, yet challenging speech on the importance ICT plays in realising the goals and challenges of our educational, social, economic and political development. He reiterated how the responsibility in preparing our youth and society rests heavily on our shoulders. Dr Joseph Gnu, Acting Director for UNESCO International Institute for Capacity Building in Africa (UNESCO IICBA) agreed that the use of ICTs in education is a major challenge worldwide, but one which demands urgent attention particularly in Africa. UNESCO has been deeply involved in assisting African countries in addressing this challenge. The question is – what can YOU do? The answer? Over the next couple of days listen, observe, share knowledge and gain an understanding of "What Works".



The International Program Committee - Linz, Austria

Streams by topic

Still confused by which session to attend over the next few days? Here is a brief overview allocated by topic.

A. Learning Theory and Research

Stream 1 (24 papers)

3.1; 4.1; 5.1; 6.1; 7.1; 8.1; 9.1; 10.1

B. Teacher Education (21 papers)

Stream 1: 1.1; 2.1

Stream 5: 3.5; 4.5

Stream 4: 8.4; 9.4; 10.4

C. Management & Policies

Stream 5 (24 papers)

1.5; 2.5; 5.5; 6.5; 7.5; 8.5; 9.5; 10.5

D. Methods & Pedagogy

Stream 4 (21 papers)

1.4; 2.4; 3.4; 4.4; 5.4; 6.4; 7.4

E. Lifelong Learning

Stream 2 (15 papers)

F. Higher Education

Stream 3 (24 papers)

1.3; 2.3; 3.3; 4.3; 5.3; 6.3; 7.3; 8.3

G. Informatics Education

Stream 2 (15 papers)

6.2; 7.2; 8.2; 9.2; 10.2

H. Software & Hardware

Stream 6 (12 papers)

1.6; 2.6; 3.6; 4.6

I. Professional and Vocational

Stream 3 (6 papers)

9.3; 10.3

J. History

Stream 3 (3 papers)

HP

The Stellenbosch Declaration – a WCCE 2005 Initiative

As well as providing a platform for sharing experiences and knowledge, we would like this conference to have significant outputs to a wider, global audience. Enter the Stellenbosch Declaration. The Declaration will be a three page document, addressing the principles, ideas, trends and recommendations considered essential for the future of ICT in education. We are asking for contributions from the Session Chairs, speakers and delegates.

The final Declaration will be presented and discussed at the Plenary Closing on Thursday, which will be attended by the IFIP President.

Southern Hemisphere Connection

IFIP's Working Group on ICT in university education (WG3.2) now has a 'southern hemisphere' look. It is perhaps appropriate that it is in Stellenbosch, South Africa, that W6 Chair, John Hughes from Australia and Vice Chair, Raul Wazlawick from Brazil worked with other members from Europe and the USA to prepare a programme of activities over the next three years.

While we might be in South Africa, the issues needing to be resolved are global and pervasive. What should be taught to computing students to make them effective professionals of the future?

The Declaration will then be presented at the World Summit on the Information Society, which will be held in Tunis in November 2005.

Chairpeople to submit three ideas or recommendations from your sessions.

Speakers to submit one idea or recommendation from your paper.

Delegates may also make individual contributions.

Each idea must be a maximum of three lines and all contributions must please be submitted using the form provided, which can be collected at the Registration Desk.

How can information technology be used to make learning more effective across the whole university curriculum? In this global village, increasingly virtual, how can we learn from each other?

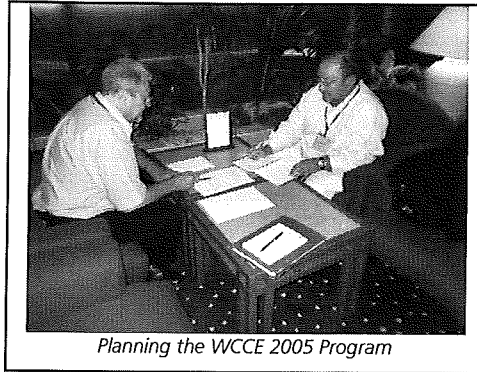
The program of activities therefore will look at international curricula in informatics and software engineering, reviewing progress in the major initiatives, identifying 'best practice' around the world, and identifying what makes an IT professional.

If you would like to submit something for tomorrow's newsletter, please contact Kirsten Moller via the Registration Desk.

8th IFIP WORLD CONFERENCE on COMPUTERS in EDUCATION

What, in the World, is Distance Education?

WG 3.6 held a seminar and their Annual General Meeting yesterday. Elizabeth Stacey and Gordon Davies invited 9 speakers from 7 countries to join the discussion on what is happening in distance education around the world. Many similarities were found between countries; students still preferred face-to-face classes to online, and blended learning combining on and off campus classes were prevalent in all countries.



Planning the WCCE 2005 Program

The final speakers (Mike Chiles – W.Cape Education Dept, and Kim Tucker – CSIR) gave a fascinating report on Africa, describing the conditions in South Africa and the challenges faced to provide distance education solutions to children affected by HIV/Aids, or in rural communities with limited resources and access to teachers.

Lifelong Learning now a SIG

At its TC3 meeting last weekend, the members approved the creation of its first Special Interest Group (SIG). It will be concerned with the role of both Informatics and the resulting Information and Communication Technologies (ICT) that enable each citizen and worker to adapt to the knowledge-based society and actively participate in all spheres of social and economic life.

The new SIG on Lifelong Learning will look particularly at the interaction between the different ways of acquiring and updating all kinds of abilities, interests, knowledge and qualifications.

If you wish to contribute to the new SIG on Lifelong Learning, or can recommend a colleague who is a leader or expert in their area, please visit our TC3 website at www.edu.ge.ch/cptic/prospective/projets/ifip or contact SIG 3.8 Chair, Brian Samways.

Gala Dinner SOLD OUT

(please remember your ticket tonight)

Just some of the challenges facing the use of ICTs in Education in Africa

- How do we develop a curriculum and learning architecture acceptable to our people?
- How can we develop and implement effective, flexible, affordable and sustainable delivery methodologies?
- What ICT networks exist in our countries for educational purposes?
- What are the costs, management and utilization implications of bandwidth used in our educational systems?
- What of the challenge of teledensity in Africa?
- What must we do to increase the number of computers in Africa?
- How do we redress the regional disparities in the use of computers?

Dr. Joseph N. Ngu, UNESCO

Lost but not Found

Have you found a lunch ticket? One delegate went to collect his lunch yesterday but had lost his ticket. Of course he was told "No ticket – no lunch". The unfortunate delegate was none other than our Conference Chair, Professor Bernard Cornu!

Quotes of the day

"School leavers have been exposed to more information than their grandparents were in a lifetime" – Deputy Minister of Education, Mr Enver Surty
"With more than 200 teachers sponsored to attend, hopefully they will be motivated to use computers in the classroom, thereby improving the standard of education in South Africa" – Vice President, IFIP, Prof Basie von Solms
"I am excited to learn from people from all over the world and hopefully take back some solutions which might address the many challenges facing both learners and teachers" – Ministry of Education, Botswana, Ragton Mazhami

TC3 New Member Recruit

To become a member of one of the TC3 Working Groups, please contact the relevant person below.

WG 3.1 Deryn Watson
Informatics education at the secondary level

WG 3.2 John Hughes
Informatics education at the university level

WG 3.3 Paul Nicholson
Research on education applications on information technologies

WG 3.4 Barrie Thompson
Vocational education and training

WG 3.5 Sindre Rosvik
Informatics in elementary education

WG 3.6 Elizabeth Stacey
Distance Education

WG 3.7 Adrie Visscher
Information Technology in Education Management

SIG 3.8 Brian Samways
Lifelong Learning

IFIP / WCCE – A History

1970: Amsterdam, Netherlands
1975: Marseille, France
1980: Lausanne, Switzerland
1985: Norfolk, USA
1990: Sydney, Australia
1993: Teleteaching, Norway TC3
1995: Birmingham, UK
2001: Copenhagen, Denmark
2005: Cape Town, South Africa
2009: Brazil
Looking forward to seeing you there!

WCCE 2005

WCCE Daily produced by Kirsten Moller
with many thanks to Elizabeth Stacey
for all her help

DAILY

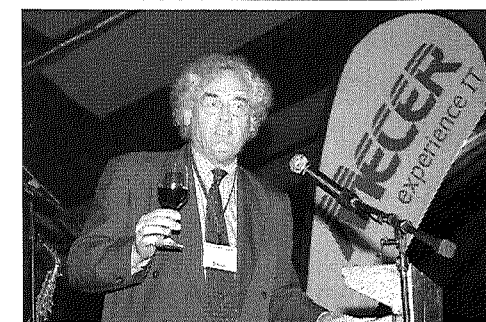
Thursday 7 July 2005

Farewell, Totsiens, Hambani kakuhle, Hambakahle

(Goodbye in four of South Africa's eleven official languages – English, Afrikaans, Xhosa and Zulu)

Today we reach the end of the 8th IFIP WCCE. We learned a lot, experienced a lot, increased our networking and developed our "collective intelligence" together. Holding the WCCE in Africa, IFIP has been humanly and intellectually enriched. But the closing of WCCE is not an end, it is just the beginning! We will start new projects, applying what we learnt in Stellenbosch. We will continue networking our networks together. And the Stellenbosch Declaration will forward ideas and recommendations to decision and policy makers all around the world. I hope you enjoyed the WCCE and your stay in South Africa. I wish you a safe return home, and we all look forward to meeting each other again at future IFIP events!

Prof. Bernard Cornu, Chairperson, International Program Committee



Prof Cornu at the Gala Dinner

The Stellenbosch Declaration – a draft framework

Your thoughts and recommendations in brief – to be discussed and finalised at the Closing Session.

Digital Solidarity

- ▷ Infrastructure for global collaboration to share knowledge, experience and perspectives
- ▷ Equal and open access to digital information, content and media for all
- ▷ Approach to networks for digital communication and support to establish interaction and collaboration among students and teachers worldwide
- ▷ A Digital Solidarity Act - all stakeholders agree on the importance of fighting the digital divide and the principles for doing this

Learner and Life Long Learning

- ▷ Academic learning
- ▷ Professional, vocational learning
- ▷ Citizenship and social responsibility learning
- ▷ Non-formal learning
 - Through tradition and culture
 - Through social and cultural environment

Networking

- ▷ Network the Knowledge Society globally and locally and that it has a consequence on policies and on the way educational systems are organised
- ▷ Enable people to be part of networks in each community, country and internationally. All countries should take part in international educational projects
- ▷ Encourage and develop partnerships and involve all stakeholders
- ▷ Facilitate collaborative work, exchange, cooperation and new learning environments
- ▷ e-Learning as a way for Education for All

Research

- ▷ Take into account all cultures in research, not only western
- ▷ Research results should be used by decision-makers
- ▷ Look at results critically, in terms of possibility of generalizing and different cultures
- ▷ Ensure public / private research is balanced and complementary
- ▷ Establish a mutual understanding between researchers and practitioners
- ▷ Conduct research exploring different learning settings, such as informal learning

Decision Making Strategies

- ▷ Use the results of research
- ▷ Use a systemic approach
- ▷ Involve all stakeholders
- ▷ Promote regional and international cooperation
- ▷ Promote trust and security in the use of ICT

Teachers

- ▷ The new role and mission of teachers in the knowledge society
- ▷ Select good teachers and make the teaching profession attractive
"Technology matters, good teachers matter more"
- ▷ Empower teachers with teaching skills and ICT
- ▷ Teacher professional development



Dr Klaus Brunnstein

Meet the IFIP President

IFIP President, Mr Klaus Brunnstein arrived yesterday in time to attend and participate in the afternoon sessions.

As Professor for Applications of Informatics, Hamburg University and an active member of IFIP since 1976, it is no surprise that he was elected President in 2002.

In 1976 he founded TC9 "Relationship between Computers and Society". Interestingly, Dr Brunnstein is an active educator with a vested interest in Data Protection and yet has never worked on TC 3 (Education) or TC 11 (Security). "TC3 is one of the finest TCs as it attracts young people and teachers, and has a multi-faceted forward vision. I feel it is one of the essential TCs and it is wonderful to be working with International Partners such as UNESCO and UNITAR."

Even with his busy schedule as President of IFIP, Dr Brunnstein says it is an honour to be invited to speak at this event of such significance. Dr Brunnstein will be addressing the conference on the role of education in the information society at the closing session today at 12:00 in Lettere 230.

The Online Learning environment:

A useful tool, some interesting research and a fascinating case-study .

John Pearson from the University of Hong Kong, together with Sue Trinidad, has developed a useful tool for evaluating the use of the online environment for teaching and learning. Students can respond to questions about ACTUAL practice and also complete their PREFERRED response. Discrepancies between these two indicators give teachers and institutions valuable data about the success of online learning.

Michael Hammond from the University of Warwick, UK, examined the literature about online learning and highlighted points such as the uncritical acceptance of a social constructivist model underlying online learning. His case study research found time constraints of business students affected their ability to take a deep learning approach in group work. They maximise their learning in minimal time with a focus on assessment tasks. He advises cautious optimism about teaching and learning online.

Peter Smith, (working with other colleagues)

reported their study comparing two groups of undergraduate third-year computer science students on campus. One comprising Australian first language English speakers and the other students of Chinese Heritage Culture (CHC) whose first language is Chinese but who were competent in English. Studying computer ethics in fully online student-facilitated small groups was found to be highly unpopular with all the students. The Australian students saw this as an issue of time taken and inefficiency with little challenging of ideas as it was too time-consuming to do so.

The CHC students found the Australian straight-forward style of posting immediately about the task confronting and intimidating and found it hard to join in the discussions. They felt cheated and marginalised and preferred face-to-face groups and more teacher-facilitation. Their messages were as frequent as the Australian students, but were more organisational and less intellectual in content with half the number of words written. Interestingly they socialised as much online as the Australians.

Dr. Elizabeth Stacey, Deakin University, Australia



www.wcce2005.org.za

WCCE 2005

DAILY

Wednesday 6 July 2005

Good Morning, Goeie Môre, Molo, Sawubona

(Greetings in four of South Africa's eleven official languages – English, Afrikaans, Xhosa and Zulu)

Premier of "ICMS"

For WCCE 2005 in Stellenbosch, South Africa, a new software tool called Icms (IFIP TC3 conference management system) has been developed and used for the first time. This tool is based on the experience of running scientific conferences by the members of IFIP TC3 over the decades. It is being used for the first time with the excellent cooperation of Peter Aspinall, MD of SBS as the local organizer of this conference. Icms has been programmed by the team of *education highway* in Linz, Austria. The features of Icms cover all functions necessary to run a conference: displaying information for presenters, uploading presentations, facilitating the reviewing process and compilation for the program. Everything is done online and all members of a program committee are always working with the same status of information. Conference organizers who want to use Icms are welcome to contact IFIP TC3 at office@eduhi.at

Panel Discussion – WG 3.3 Research

Jonathan Miller, Chairman of the ICDL Foundation of SA, attended a lively discussion yesterday on the current state of research in ICT in education – what has worked and what hasn't. Research is showing that ICT is working for teacher education and creating communities of practice; providing access for special education needs, providing access to content for both teachers and learners and for enhancing vocational skills and knowledge. However, it is still unclear whether ICT has a major role within the primary and secondary education context or whether it should find its place in the informal education sector rather. In the end, is

There is some research into many studies of ICT in education for innovation and development that suggests the expenditure far exceeds the return. There are also concerns that research in the western tradition is only partially successful and that it is time we looked at other approaches like story telling and engaging teachers and practitioners in the research process. What certainly doesn't work is replicating things that we already know don't work especially in developing countries. While there may be gloomy stories, the research suggests that slow learners gain the most from ICT as do visual learners. Computers provide an authentic environment for foreign language learning and transform boring old physics and chemistry through 'virtual

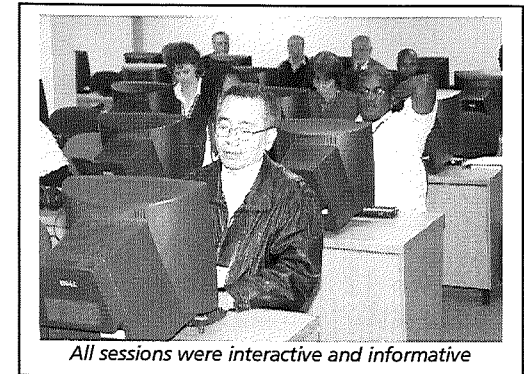
Special Students

A diverse group of students with special needs within ICT solutions were discussed in this session chaired by Elizabeth Stacey. Wallace Chigona researched the use of ICT as a tool for improving adult functional literacy in South Africa. ICT has the potential to be more motivational, interactive and culturally contextual than other technologies. He raised some of the issues for using ICT in rural and poorer regions such as safety, lack of infrastructure and the group discussed the issue of the cost of ICT which could take funds from the provision of teachers.

Researchers from the University of Melbourne, Australia, discussed the way ICT is providing the connection to their schools for chronically ill students who, though hospitalised for shorter periods, now spend a long time recovering at home. Laptops and server connections mean they can work with their teachers online and keep up socially with their classmates through secure chat areas. The social support also aids in their recovery.

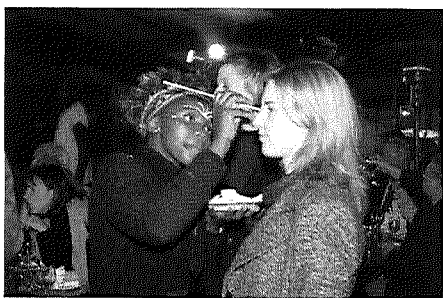
Info-anxiety (Defn 1) – the gap between what we understand and what we think we are understanding

Info-anxiety (Defn 2) – the black hole between data and knowledge. It happens when information does not tell us what we expect or anticipate



The final group of learners discussed in this session were prisoners in Austria who were involved in rehabilitation through e-learning. The team from the University of Technology in Austria first adapted software to secure the online communication so they could not connect to the Internet or with prisoners in other jails.

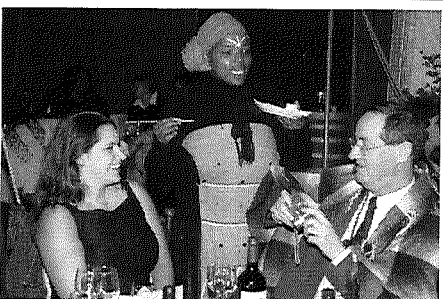
The prisoners worked in learning groups with a teacher only once a week, with mixed media, web-based courses, CD's, print etc and with tutors (often guards). They studied basic literacy and numeracy skills with computers and job specific skills. 83% passed, 25% were re-employed soon and 20% went on to further education.



Festive fun – painting faces



African blankets were provided



The waiters wore traditional dress

A Feast – traditional African style!

Sponsored by Mecer Computers and Mustek, the WCCE Gala Dinner was a festive affair, with over 600 people enjoying traditional African food, music and dance in the magical setting of Moyo at Spier.

MC for the evening was former Miss South Africa and television presenter, Joanne Strauss, who added a touch of glamour to the informal occasion.

To kick off the evening's festivities, speeches were given by the CFO of the sponsors for the evening, Mustek, Mr Hein Engelbrecht, IFIC TC3 Chairman, Prof. Jan Wibe, International Program Committee Chair, Prof. Bernard Cornu and the Vice President of IFIP, Prof. Basie von Solms. All speeches were delightfully tongue-in-cheek, with Prof Cornu, in particular making numerous play-on-words, providing much amusement. (The World Conference on Computers in Education has been renamed the Wine Club for Collaborative Education.)

Prof Cornu's analogies to wine were in reference to the fact that the esteemed event took place on a wine farm and that people could network over a glass or two.

After the formalities, people were presented with an impressive spread. All types of African delicacies were on offer and rest assured, no one went hungry!

Delegates danced the night away to the beat of the African drum, acoustic marimbas and a foot-tapping jazz band.

Mecer and the organisers did an excellent job of providing an ideal platform for stimulating conversation and networking in choosing an exciting venue offering tantalising cuisine, traditional décor and superb entertainment.

As Prof. von Solms said, the error in the Gala Dinner's Program was perhaps intentional: IFAP – International Friends of African People.



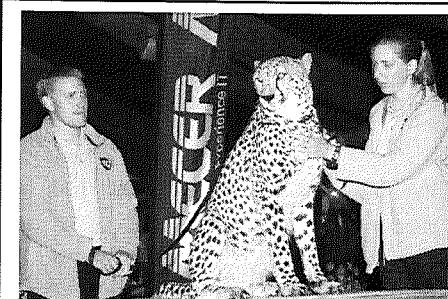
Prof Bernard Cornu – glass of wine in hand



Joanne Strauss – MC for the evening

0 to 80km/hr in 3 seconds

A surprise guest was none other than Joseph, the 3-year-old male cheetah from the Cheetah Outreach Program based at Spier. Liesel Smith from the Program introduced us to her feline friend, explaining the plight of the cheetah in Africa and how the sponsorship from Mecer has helped them tremendously in their efforts in educating the public.



Joseph, the cheetah



www.wcce2005.org.za