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World IT Forum 2005

To accelerate development in developing countries, experts in different fields must 'talk the same language', and work together towards a common goal.

WITFOR is a major global ICT initiative aimed at accelerating development for the world's poorer nations. To be held in Gaborone from August 31st to September 2nd, 2005, it will be hosted by the Government of Botswana, in collaboration with the International Federation for Information Processing (IFIP).

"Politicians make promises to different constituents, researchers focus on their own research, and venture capitalists invest in specific areas of expertise," says Professor Dipak Khakhar, Chair, Organising Committee and a Professor of Information Management at the University of Lund, Sweden. "The value of the WITFOR process lies in bringing together policy-makers, researchers, academics, the private ICT sector as well as end-users, and enabling them to communicate."

He was speaking following the recent preparatory meeting of the eight WITFOR commissions in Botswana. These commissions each work in defined areas, such as health, education, environment and agriculture. They are addressing issues critical to developing countries, such as the application of ICT in fighting HIV/Aids and poverty.

Their work forms part of an ongoing process. The vision for each commission was described during WITFOR 2003, held in Lithuania. Each commission is now identifying concrete projects to transform that vision into reality, with tangible benefits for the peoples of developing countries.

A highlight of the process so far has been the generous funding acquired from the European Union (EU) for the Health commission's BEANISH project. The EU is also a sponsor of WITFOR 2005.

The BEANISH project is developing regional health information systems, together with local stakeholders, using open source software.

"The HIV/Aids pandemic, together with the generally poor health status and health systems in Africa, has emphasised the need for developing appropriate information and communications technology (ICT) for managing, monitoring and delivering health services," says Khakhar.

The BEANISH project addresses this by building a Europe-African network that combines experience from the previous South African implementation, best practices from other African countries, and research from Europe into the application of ICT in health. It is building appropriate African ICT solutions and know-how.

Projects in other areas, and their funding, will be announced at WITFOR 2005. I will be glad to hear of projects in the areas of WITFOR's interest in the filed of economic opportunities through ICTs. Jorn Braa, Mikko Korpela and Kgomotso Moahi chair the health commission at WITFOR 2005.

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Second WITFOR project has been now co-funded by THE EMBASSY OF FINLAND in PRETORIA, SA

The project aims at developing the capacity of Southern African teachers in using ICT. It will be implemented through setting up a support website and a network of innovative knowledge sharing communities of teacher trainers and teachers. It will be applying a new method of

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professional development for teachers ICT capacity building in Southern Africa based on methodologies developed in the Centre for Activity theory and Developmental Work Research in University of Helsinki and in Virtual centre for Innovative Learning Technologies in University of Mauritius.

The project is initiated within Education Commission of WITFOR 2005. Matti Sinko, Alain Sentini and Abdul Wahid Khan chair the commission.

www.witfor.org

WCCE is the flagship conference in TC3. So far the following conferences have been arranged:

1972: Amsterdam, Netherlands
1976: Marseille, France
1980: Lausanne, Switzerland
1985: Norfolk, USA
1990: Sydney, Australia
1993: Teleteaching 93, Norway TC3
1995: Birmingham, UK
2001: Copenhagen, Denmark
WCCE 2005 will be arranged at Stellenbosch, South Africa at July 4th-7th, http://www.sbs.co.za/wcce2005/.

Some facts about the conference:

Theme: 40 Years of Computers in Education - What works?

Chair of the Organising Committee: Peter Waker, SA
Chair of the Programme Committee: Bernard Cornu France (replaced Peter Bollerslev)

The TC3 Paper handling System "ICMS", which is developed by Anton Knierzinger, is used to help the organization. The system has been used in TC3 conferences since the late nineties.
Questions about this system are welcome. It was demonstrated during the last IFIP Council meeting.

Next WCCE will be arranged in Brazil in 2009.

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Facts about the Programme:
We received nearly 500 contributions to the programme in the following categories:
Papers, panels, workshops and demonstrations.
The main bulk of the programme is the paper sessions with selected papers from the contributions. But the other categories will also be well presented.
Every participant will receive a CD with the program presentations. Brian Samways (editor) is planning to have Post Proceedings from the conference.

Other contributions to the programme:

2nd International Conference on Open and Online Learning (ICOOL 2005)

Organised by the University of Mauritius in the context of WCCE 2005 by Alain Senteni, Director, Virtual Centre for Innovative Technologies, University of Mauritius, Chairman of the Programme Committee.

Conference Website: http://www.sbs.co.za/wcce2005/icool/icool.html

United Nations Institute for Training and Research (UNITAR)

http://www.unitar.org/
Bernard Cornu and Raymond Morel have established contact with UNITAR through Louise Lassonde. This has resulted in the following program elements:
Panel: Mobilising expertise and resources for Digital Solidarity in Education.

Working session with the same title. This will be a follow up for those who want to go further after the panel.

The Stellenbosch Declaration

Every session chair during the conference will be asked to summarise three key messages coming out of their session. These will be used as input for the closing session on Thursday.

Summarising the key messages coming out of WCCE 2005 will form part of a "Stellenbosch Declaration". This Declaration will be taken to World Summit on the Information Society (WSIS) in November 2005. For more information about WSIS, see:

http://www.itu.int/wsis/

"Foundations of System Specification" in India

by Jose Luiz Fiadeiro

WG1.3 – Foundations of System Specification – organised its first meeting of 2005 in Bangalore, India (January 14-15), at the Department of Computer Science and Automation of the Indian Institute of Science (IISc). Our host was P.S.Subramanian, from Tata Consultancy Services (TCS).

The meeting was preceded by a 3-day workshop on "Specification and Design Methodologies for Adaptive and Embedded Systems" co-organised with the Computer Society of India and IISc. The workshop attracted many speakers and participants from local companies such as General Motors R&D, Texas Instruments, Philips, and TCS. A panel discussed current challenges in the industrial deployment of formal methods. Prof. Mathai Joseph, our distinguished colleague from WG2.3 and executive director of the Tata Research Development and Design Centre (Pune), gave an extremely entertaining keynote speech at a banquet generously sponsored by TCS.

Four new members were appointed at the meeting: Prof. Kokichi Futatsugi (JAIST, J), Dr. Reiko Heckel (University of Leicester, UK), Prof. Dominique Méry (Université de Nancy 1, F), and Dr Dusko Pavlovic (Kestrel Institute, USA).

The next meeting will take place in September 6-7 organised by Prof. Peter Mosses at the Department of Computer Science, University of Wales Swansea. The meeting will be preceded the 1st Conference of Algebra and Coalgebra in Computer Science (CALCO), which is co-sponsored by IFIP.

http://www.fiadeiro.org/jose

CARDIS 2006

The **7th Smart Card Research and Advanced Application IFIP Conference**, organized by IFIP Working Groups WG 8.8 and WG 11.2, will be held in Tarragona, Catalonia, Spain, April 19-21, 2006.

Since 1994, CARDIS is the foremost international conference dedicated to Smart Card research and application. Every two years the scientific community congregates to present new ideas and to discuss recent developments. Also 2006, thirty eight years after Jürgen Dethloff and Helmut Grötrupp filed their idea of incorporating an integrated circuit in an identification card, CARDIS'06 will bring together leading researchers and practitioners in the development and deployment of state of the art Smart Card technologies.

The fast evolutionary process in the field of Information Security requires an adequate means to represent the human in the process of human-machine interaction. Smart Cards, or, by extension, smart devices with their processing power and their direct correlation to the user are considered to be the first choice. In rather young and new realms, such as Pervasive Computing, smart cards and devices face new challenges. Today, the capabilities of smart cards and devices with their highly advanced specialized security features reach far beyond. They are the basis for many secure systems and play a decisive role in ID management. Established computer science areas, like hardware design, operating systems, modeling systems, cryptography or distributed systems have adapted to this fast growing technology and yield new application ranges and investigate emerging challenges for these domains.

The program committee seeks papers describing the design, development, application, and validation of Smart Card technologies. Submissions across a broad range of Smart Card development phases are encouraged, from exploratory research and proof-of-concept studies to practical application and deployment of Smart Card technology.

Topics of interest include, but are not limited to:

- Smart Device, Person Representation and Ambient Intelligence
- Smart Device, Identity, Privacy and Trust
- Smart Card (Smart Device) and Applications in the

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Internet, WLAN, DRM, ...

- Smart Card and Smart Device software (OS, VM, API)
- High-level data model and management (On-card data sharing schemes)
- (Distributed) Application development and deployment
- From Smart Card to Smart Device (hardware, form factor, display)
- Biometrics and Smart Cards
- High-speed, small-footprint encryption
- Cryptographic protocols for Smart Cards (and Smart Devices)
- Attacks and countermeasures in hardware and software
- Hardware, software and service (application) validation and certification
- Formal Modeling
- Security of RFID systems
- Interplay of TPMs and Smartcards

For Paper Submission please see submission section on www.cardis.org

Awards will be handed over at the conference for the best paper and the best student paper.

Conference General Chair
Josep Domingo-Ferrer, Universitat Rovira i Virgili, ES

Program Committee Chair
Joachim Posegga, University of Hamburg, DE

www.cardis.org

IFIP General Assembly 2005

GA 2005 will be held on September 4/5th in Gaborone, Botswana following WITFOR 2005. The standing committees will meet the day before as usual. IFIP's Executive Board extend a warm welcome to all IFIP Member Societies to participate in the GA. Full details are on the IFIP website at http://www.ifip.or.at/internal/GA2005/schedule.htm .

GA 2005 has to make some important decisions. One key decision will be the selection of a venue for the **2008 World Computer Congress**. Bids have not yet closed but it is probably too late to start now!

Another important event will be the election of new members. IFIP is delighted to have received applications from **Ethiopia, Mauritius and Zambia**. If approved by GA, this will bring IFIP total membership to more than 50 countries for the first time.

GA will also be holding its usual elections for Officers and Trustees. This year GA has to elect one Vice-President and two Trustees. All the present postholders are eligible for re-election – Jean-Claude Laprie (France) as Vice-President, and Renaldas Gudauskas (Lithuania) and Joe Turner (USA-ACM) as Trustees. The first round of nominations, which should be sent to the Secretariat, closes on **June 29th 2005**.

The Executive Board looks forward to meeting representatives of all Member Societies and TCs in Gaborone.

NOMS 2006

The 10th IEEE/IFIP Network Operations and Management Symposium (NOMS 2006) will be held 3-7 April 2006 in the Vancouver Convention and Exhibition Center, Vancouver, Canada.

NOMS serves as the primary technical forum for the exchange of information on integrated systems and services among the research, standards, development, systems integration, service provider, and user communities with interests in communication networks, host systems, enterprise applications, service-oriented architectures, and delivery of management services.

The scope of NOMS 2006 encompasses provisioning, operation, and maintenance for end-to-end communications and services as well as dependability, resilience, quality-of-service, mobility management, and services billing. The conference provides a peer-reviewed program of technical sessions, application sessions, tutorials, posters, and panels as well as vendor exhibits.

Acceptance of technical papers is quite competitive, with an acceptance rate of 20% to 25%. For further information check the web site noted above or contact one of the TPC Co-chairs Joe Hellerstein, IBM, U.S.A. or Burkhard Stiller, University of Zurich and ETH Zurich, Switzerland.

The conference URL is http://www.noms2006.org.

IFIP Working Group 11.9 on Digital Forensics

Founded in 2004, the IFIP Working Group 11.9 is an active international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics.

IFIP WG 11.9 hosts an annual international conference that provides a forum for presenting original, unpublished research results and innovative ideas related to the extraction, analysis and preservation of all forms of electronic evidence. The first conference in the series was held at the National Center of Forensic Science in Orlando, Florida, USA on February 13-16, 2005.

The strong conference program was organized around nine sessions: Digital Forensics Challenges, Telecommunications Forensics, Digital Forensics Themes and Issues, Novel Investigative Techniques, Linux and File System Forensics, Digital Forensics Applications and Techniques I and II, Novel Applications, and Advanced Device Forensics.

In addition, two keynote lectures were delivered by Mr. Tony DiClemente (FBI) and Dr. Michael Caloyannides (Mitretek Systems). Revised versions of the papers presented at the conference will be published in a book – the first in a series entitled *Research Advances in Digital Forensics* to be published by Springer (Norwell, Massachusetts) in the fall of 2005.

The *Second Annual IFIP WG 11.9 International Conference on Digital Forensics* will be held at the National Center for Forensic Science in Orlando, Florida, USA on January 29 - February 1, 2006.

Please access the working group's website at www.cis.utulsa.edu/ifip119 for additional information about WG 11.9 and its activities.

Kristian Beckman Award

The Kristian Beckman Award 2005 has been awarded by TC-11 to William List from the UK. William List qualified as a Chartered Accountant and specialized in computer audit and security for over 40 years. For many years he was a computer audit partner in KPMG based in London. Now he is the sole partner of his own company.

William has always strongly advocated the necessity of user participation in the design and control of all aspects of computing, particularly for the inclusion of business applications in IT security. He is an acknowledged international expert in the use of control and security techniques in application systems. Many of his presentations and papers were thought provoking and at the time controversial and challenged but in retrospect they proved to be very visionary.

He served on the British Computer Society standing security committee for some 20 years being Chairman for five of them. This committee has always been very influential towards the British government on information security issues.

William has since long been actively involved in security standards. He is a member of the team in UK that developed the Information Security Management Standard (ISO/IEC17799) and BS7799 Part 2. He contributed to the development of the Common Criteria and prepared Protection Profiles for accounting systems, highlighting the limitations of the then criteria in addressing security of business applications.

The KB Award has been presented on 30 May in Chiba, Japan during SEC 2005, the annual flagship conference of TC-11.

The Kristian Beckman Award was established in 1992 by IFIP Technical Committee 11 to commemorate the first chair of the committee, Kristian Beckman from Sweden, who was also responsible for promoting the founding of TC11 in 1983. This award is in principle granted annually to a successful nominee and is presented at the annual IFIP Security Conference that is organized under the auspices of TC11.

The objective of the award is to publicly recognize an individual, not a group or organization, who has significantly contributed to the development of information security, especially achievements with an international perspective. However this particular requirement will not necessarily preclude nominations of those whose main achievements have been made on a national level.

News from the IFIP Family

Congratulations to **Professor Michael D. Myers (NZ)**, Vice-Chair of IFIP WG 8.2. He has been elected as President-Elect of the Association for Information Systems (AIS). He will take office as President-Elect on July 1st, 2005. He will serve in this role for one year, after which he will become President of AIS on July 1st, 2006.

Dr.Mike Hinchey (US), representative from the IEEE to TC1, has been elected as new TC1 Chair. He will take over his responsibilities end of 2005 from Prof.Ito (JP). Till then Mike will work as Vice-Chair for TC1.

With sadness we have learnt that **Professor Giorgio Sacerdoti** has passed away on May 25, 2005 at an age of 80 years.

With Giorgio Sacerdoti, another pioneer of Informatics has left our community. He was very active in Italy where he served as President of AICA ("Associacione per la Informatica ed il Calcolo Automatico") for 3 terms, and he was the Italian representative in IFIP for quite some time (1977-1999) in which he was very active in several positions. His contributions especially in Theoretical Informatics have been presented at several IFIP conferences and received wide interest.

A memorial for Prof. Sacerdoti will be prepared on IFIP's website.

In memoriam Professor Hongjun Lu

Members of the newly formed IFIP WG2.12/12.4 were saddened to hear of the death of one of their most esteemed members, Prof. Honjun Lu.

Prof. Lu was a world renowned researcher who served the database community with dedication and distinction in various capacities over the years. He was a trustee of the VLDB Endowment, a member of the ACM SIGMOD Advisory Board (1998-2002), an associate editor of IEEE Transactions on Knowledge and Data Engineering (TKDE), chair of the steering committee of the International Conference on Web-Age Information Management (WAIM), and co-chair (1998-2001) and chair (2001-2003) of the steering committee of Pacific-Asia Conference of Knowledge Discovery and Data Mining (PAKDD). In December, 2004, he was honored with a Contribution Award by the China Computer Federation Database Society and, just recently, he was honored with this year's inaugural PAKDD Distinguished Contribution Award.

Prof. Lu received the B.Sc. degree from Tsinghua University, China, and the MSc and PhD degrees from the Department of Computer Science, University of Wisconsin-Madison. Before joining the Department of Computer Science at the Hong Kong University of Science and Technology, he had worked as an engineer in the Chinese Academy of Space Technology, as a principal research scientist in the Computer Science Center of Honeywell Inc., Minnesota, USA (1985-1987) and as a professor at the School of Computing of the National University of Singapore (1987-2000).

On March 3, 2005, Prof. Lu passed away due to the terminal disease. His memory and ever-lasting contribution to the database society will live forever.

For your diary – forthcoming IFIP events

EVENT	Date / Location
Joint Conference on Distributed Applications & Interoperable Systems, & Formal Methods for Open Object-based Distributed Systems http://www.di.uoa.gr/dais-fmoods-2005/merakos@di.uoa.gr	**14-17.06.2005** Athens, GR
International and Interdisciplinary Conference on Adaptive Knowledge Representation Reasoning http://www.cis.hut.fi/AKKR05	**15-17.06.2005** Espoo, FL
International Workshop on Quality of Service http://www.fmi.uni-passau.de/iwqos/demeer@fmi.uni-passau.de	**21-23.06.2005** Passau, DE
Landscapes of ICT & Social Accountability http://staff.cs.utu.fi/ifip/WG9.2_Conference_2005/kai.kimppa@it.utu.fi	**27-29.06-2005** Turku, FI

For your diary – forthcoming IFIP events (continued)

EVENT	Date / Location
Intl.Conf.on Dependable Systems & Networks http://www.dsn.org	**28.06.-1.07.2005** Yokohama, JP
Asia-Pacific Conference on Computer-Human Interaction http://www.apchi2004.org.nz	**29.06.-02.07.2005**Rotorua, NZ
The 1st Workshop on Parallel & Distributed Embedded Systems http://juliet.stfx.ca/~lyang/icpads05-pdes/lyang@stfx.ca	**02-22.07.2005** Fukuoka, JP
World Conference on Computers in Education 2005 http://www.wcce2005.org.za	**4-7.07.2005** Stellenbosch (Cape Town), ZA
EUNICE 2005 & IFIP Workshop Summer School on Network Applications http://www.eunice-forum.org	**6-8.07.2005** Colmenjarejo (Madrid), ES
7th European Agent Systems Summer School http://www.agentlink.org/happenings/easss/2005/index.html	**18-22.07.2005** Utrecht, NL
22nd IFIP TC7 Conf.on System Modeling & Optimization http://www.polito.it/ifip2005	**18-22.07.2005** Torino, IT
Working Group Conference "Knowledge Management for Educational Innovation" okamoto@ai.is.uec.ac.jp	**23-26.07.2005** Hamamatsu, JP
Designing Ubiquitous Information Environments: Socio-Technical Issues & Challenges--IFIP 8.2 Annual Conference http://ifip2005.cwru.edu	**01-03.08.2005** Cleveland, Ohio, USA
International Imbedded Systems Symposium http://www.iess.org	**17-19.08.2005** Manaus, BR
1st International IFIP/WG12.5 Working Conference on Industrial Applications of Semantic Web http://www.cs.jyu.fi/ai/OntoGroup/IASW-2005/index.html	**25-27.08.2005** Jyvaskyla, FI
World Information Technology Forum 2005 witfor@gov.bw	**31.08-02.09.2005** Gaborone, BW
1st Conference on Algebra & Coalgebra in Computer Science M.Roggenbach@Swan.ac.uk	**03-06.09.2005** Swansea, UK
Artificial Intelligence Applications and Innovations http://aoc.cau.edu.cn/aiai2005	**07-09.09.2005** Beijing, CN
Interact 2005 http://www.interact2005.org	**12-16.09.2005** Rome, IT
IEEE/ACM/IFIP International Conference on Hardware/Software Codesign & System Synthesis http://www.codes-isss.org	**18-23.09.2005** Jersey City, US