Executive Summary

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1. After “ICTswitzerland” : a new change of Name and By-Laws ➔ SI

Very active in IFIP since its creation in 1960 and although not part of the European Community, Switzerland has not only been a founder of IFIP but has continued to contribute towards its objectives and activities without interruption through the personal involvement of its representatives:
- active presence in the Executive Board and the Council and 3 Presidents covering a period of 12 years.
- R. Morel, Swiss representative to the IFIP GA since 1999, has been Board Member and Councillor from 2004 to 2010.
- Bernard Eschermann was elected in 2009 as Councillor to the IFIP Board.
- Strong and active Swiss presence in the Technical Committees and Working Groups dealing with matters of interest to Switzerland.

Today, 78 specialists from Swiss Academia and industry are participating in 11 TC's and 39 WG's. 1 Swiss rep is TC chairman, 1 rep is Secretary and 2 reps are also special consultants. The TC representatives were appointed by ICTswitzerland, the Swiss Member of IFIP until 2010. The WG members are individual specialists accepted by the WG's for their expertise (there is no country limitation on their number).
The personal involvement and the efforts of these specialists contribute, through their international contacts with leading experts, to acquiring and bringing to Switzerland knowledge on new technology developments and strategies discussed within IFIP Working Groups. They are the ambassadors of Switzerland to the TC's and WG's and contribute to the maintenance and improvement of the Swiss international image.
This is especially true in areas such as Education, Communications (infrastructure, financial access, etc..), Security, Software, Human aspects, etc.. which present important potential for Switzerland.
Support for these international activities is therefore very important to allow the continuation of an active Swiss participation in the international IFIP activities in all areas of ICT.

Till 2010 the Swiss Committee for IFIP is thankful to the SATW (http://www.satw.ch), SARIT http://www.sarit.ch/ and, of course, to the employers of the IFIP delegates; without such support they could not pursue their mission. We have tried hereunder to evaluate the overall effort represented by the activities of the delegates to IFIP functions.

The Swiss delegates are appointed for a period of 4 years renewable by periods of 2 years. The names of the Swiss TC and Working Groups representatives are published on the SARIT Web site

The main functions of a Swiss IFIP TC representative are:
- to assure the both ways communications between Switzerland and his TC (information to the Technical Committee about latest developments and concerns in Switzerland and information to the interested parties in Switzerland about the TC activities),
- organise TC meetings and events in Switzerland when feasible, etc...

For more information:
- Tasks : http://www.sarit.ch/swiss-ifip-committee/tasks.html
Yearly spendings of Swiss IFIP delegates:

in order to get an evaluation of the importance of resources spent by IFIP delegates to TC's and WG's a survey is repeated on a regular basis. The delegates are asked how much they spend annually in:
- Person days (meeting attendance, home work, reports, meeting preparation, etc..) and
- Travel expenses (airline/train tickets, hotel and meals, registration fees or receptions for invitees, etc..)

The numbers vary significantly; for example, the time spent varies from 5 to 50 days/year. The maximum happens when the TC rep has several IFIP functions (for example Council Member, TC Officer, etc..) or when in charge of organising an IFIP event in Switzerland. The last evaluation was done for the year 2006.

The resulting average numbers were the following per delegate:
- Persondays: 22
- Associated cost (hypothesis: 120 kfr/year): 11.0 kfr.
- Tavel expenses: airline: 1.8 kfr.
- Hotel and meals: 2.5 kfr.
- Registration fees, receptions for invitees, etc.. : 1.0 kfr.

**Total expenses per TC/WG representative: 16.3 kfr/person/year**

We have today (as of December 2010) 78 specialists from Swiss Academia and industry participating in 10 TC's and 39 WG's.
This represents a total Swiss effort of approximately **1'270’000 fr/year** of which 140 kfr for airline tickets.

These activities would of course be impossible without the IFIP delegates employers. They however tend to restrict allowing “free time” to their employees for obvious reasons.
They are of course encouraged when at least the travel tickets for the TC delegates (although a small part of the total) are in principle supported by SATW (20 kFr. via ICTswitzerland) and SARIT (5 kFr.). Both organisations have to be thanked for their valuable support.

Here it must be said it’s a pity that SATW has decided last year unilateraly to cancel the contract with ICTswitzerland which was the base for the contribution of 20 kFr / year mentioned above. This was made without consulting or informing SIC. It obviously creates a serious problem for the future international activities of the IFIP Swiss delegates to Technical Ctees since 2010. A lot of changes took place in recent months. ICTswitzerland has no interest for international and scientific / research aspects.

Thus the IFIP Swiss membership was moved to SI (Swiss Informatics Society). The first problem was caused by SATW which broke the contract they had for years with ICTswitzerland which necessitated to reorganise the IT scene. Charts were presented: - the old organisation and the proposed one regarding all associations: ICTswitzerland, SARIT, SI, SATW, etc.. (see the enclosed charts SIplus-Org-A 02.02.10/CAZ and 15.04.10/CAZ). The SIC Web status will be decided in 2011. Finances will be handed by SI. The 2010 Swiss fee to IFIP was paid by SI.
To summarize:
the financial issue is actively studied to find a long range solution for the continuation of the active presence of Switzerland in IFIP. Begin of 2011 the SIC moved inside the SI as Working Group, SI becomes member of the SATW and will become the Swiss member of IFIP at the IFIP GA’2011.

2. The Swiss IFIP Committee (SIC) : Activities in 2010/2011

http://www.ict-21.ch/SIC/
Besides their current activities (reported in their annual reports) such as participation to their TC meetings, the TC representatives were particularly active in 2010 either by holding a TC executive position or in organising important events.

This section gives an overview of the most important activities and events:

**The annual meeting** took place in Bern on January 19, 2011 attended by seven members.

R.Morel (chair) welcomed the participants and congratulated those who were elected to new positions:
- J.-L. Chappelet (TC 9 Swiss representative)
- R. Winter (TC 8 Swiss representative)

Both could not participate because of earlier commitments.

**Extracts from 2010 TC Swiss Rep reports** (presented in the descending order)

Here after, only items of special interest or open problems are mentioned. Details to be found in the individual distributed reports available at: [http://www.ict-21.ch/SIC/spip.php?article9](http://www.ict-21.ch/SIC/spip.php?article9)

**TC 13 (Human-computer Interaction) - Ute Klotz**


RM in the absence of UK summarized her report:

This year our Technical Committee 13 for Human-Computer-Interaction was affected by financial cutbacks at different universities worldwide and at Swiss universities, too. The original plan to play an active part in the WG 13.6 Human Work Interaction Design by our Swiss member wasn’t possible because of financial cutbacks at the university which forced him to take over other tasks. Additionally we moved our Expert Profiling Database to the University of Kaiserslautern where Dr. Achim Ebert will take care of it. The personal resources to maintain the database weren’t available any longer. In spite of everything we had the possibility to take part in the Programm Committee for the 2nd IFIP International Human-Computer Interaction Symposium at WCC2010 in Brisbane, Australia. In December 2010 we started with the reviewing process for the biennial conference Interact 2011 in Lisbon, Portugal.

**TC 11 (Security and Protection in Information Processing Systems)**


C.Rieder reported:

**TC 11 Chair: Kai Rannenberg, Germany, kai.rannenberg@m-chair.net**

Contact: http://www.tc11.uni-frankfurt.de/

**SEC2010** took place in Brisbane, Australia, as a sub-conference of the World Computer Congress 2010 with over 1000 participants, 8 streams, 77 IFIP conferences (approx. 350 speakers), 4 other conferences (like SEC2010), 3 associated meetings (like IP3) 3 tutorials / workshops, 6 plenary keynotes, 110 industry speakers (in the streams)

**SEC2011:** The conference: "Future Challenges in Security and Privacy for Academia and Industry" will take place in Lucerne, Switzerland, June 7. to 9. 24 papers have been accepted, 4 sub-conferences (PrimeLife, PICOS, TC11.8 WISE, iNetSec), industrial track.

**SEC 2012:** Only one bid was presented for SEC2012, received from Greece. The conference is planned during the first week of June on the Island of Corfu (City of Corfu) or the Island of Crete (City of Khania or City of Heraklion).

**Election of working groups Chairs**

- Gurpreet Dhillon is the new WG 11.1 chair.
- Jaap-Henk Hoepman was re-elected as WG 11.2 chair
- Vijay Atluri was re-elected WG 11.3 chair

**Leon Strous reported from IFIP Board (May 2010):**

- Membership (Now: Full member, Associate member, Affiliate member, Corresponding member, Individual member, Honorary member to be reduced to: Full member, Specialist member, Honorary member)
- Income (Reasonably stable)
- Costs (Tight control needed, little or no room for special projects)
- Strategy projects (High quality information – to be covered later in the meeting, International liaisons, position of member societies, professionalism– to be covered later in the meeting on IP3)
The following discussion concentrated on the decreasing number of full members (world-wide problem), covering travelling expenses; especially for non academic staff, importance of IFIP liaise with such international organizations like UNESCO or European Union.

**Election of the TC-11 board**
- Kai Rannenberg was re-elected as TC-11 for his second period.
- Rossouw von Solms as the TC-11 Vice-Chair
- Yuko Murayama as TC-11 Vice-Chair (in charge of Working Groups)
- Lech Janczewski as the TC-11 Secretary

We like to thank all four for their huge effort for our IFIP TC11

**Kristian Beckman Award**
The 2010 Kristian Beckman goes to Basil von Solms. This is to honour his never tiring work towards broadening the meaning of Information Security in various aspects, e.g. by adding management aspects to the academic perception of information security and by creating the field of Security Governance.

**Finances**
Kai Rannenberg commented on previously circulated financial results for 2009, status for 2010 and Budget for 2011: We are financially healthy.

**TC 10 (Computer Systems Technology) – From B.Eschermann**


The TC now consists of 4 working groups, all active. Switzerland is represented in 2 of the 4 working groups.

- WG 10.2 (Embedded Systems) has a total of 46 members, of which two members are from Switzerland (Prof. Lothar Thiele, ETH Zürich and Dr. Bernhard Eschermann, ABB).
- WG 10.3 (Concurrent Systems) has a total of 59 members, and one member from Switzerland (Prof. Helmar Burkhart, University of Basel).
- WG 10.4 (Dependable Computing and Fault Tolerance) has a total of 68 members, unfortunately none from Switzerland.
- WG 10.5 (Design and Engineering of Electronic Systems) has a total of 65 members, again none from Switzerland.

TC 10 was represented at the IFIP world computer congress (WCC) 2010 in Brisbane with 2 conferences: BICC (biologically inspired collaborative computing) and DIPES (distributed and parallel embedded systems).

Bernhard Eschermann (ABB, Switzerland) was reelected as TC10 chair for a second term 2011-2013. There is a new chairperson of WG 10.5 from 2010: Dominique Borrione (IMAG, FR) took over from Michel Robert (LIRMM, FR). Apart from that, there were no changes in officers during 2010.

A discussion on new areas for TC 10 was started. The following topics were identified as potentially interesting to pursue – they were also assigned to current working groups of TC 10 to evaluate and discuss further: Wearable computing (WG 10.2), cloud computing (WG 10.4), „green“ computing (WG 10.5).

The 2011 TC 10 meeting is planned to take place in conjunction with WG10.5’s conference DATE (Design, Automation and Test in Europe) that will be held in Grenoble/FR from March 14-18, 2011. Available and the report placed on the SIC site as mentioned in the first para above.

**TC 9 (Relationship between Computers and Society)**
No report from L Hilty. J-L Chappelet, new TC 9 representative, will report next year on 2011 activities.

**TC 8 (Information Systems) – From Y.Pigneur**

(to be replaced by R.Winter)


The 41st meeting of TC8 took place on September 21 and 22, 2010 in Brisbane, Australia.

TC8 participated in WCC 2010 with a Conference titled “Global Information Systems Processes (GISP)”. The Program Committee involved WG officers and National Representatives from all Working Groups.

The 42nd meeting of TC8 will be held on June 4 and 5, 2011 in Nauvo, Finland (just before the IFIP WG 8.2 in Turku and the ECIS Conference in Helsinki).
TC8 events in Switzerland (2010)
Jolita Ralyte, University of Geneva, has been appointed as Vice-chair of WG 8.1 (Design and Evaluation of Information Systems)

WG 8.2 (The Interaction of Information Systems and the Organization) recruited a first Swiss member: Stephan Aier, University of St-Gallen.

WG 8.3 (Decision Support Systems) recruited several Swiss members: Robert Winter, University of St-Gallen, Matthias Buchs, University of Geneva, Giovanni Camponovo, Supsi, Barbara Dinter, University of St-Gallen, Pius Haettenschwiler, University of Fribourg, Evelina Trutnevyte, ETH Zurich, Felix Wortmann, University of St-Gallen

With the support of IFIP TC8, the University of Geneva & the University of Lausanne, with the CRPHT at Luxembourg, organized the First International Conference on Exploring Services Sciences (IESS 1.0) on February 17-19, 2010 at Geneva.

Related activities in IS:
Not supported by IFIP but related to information systems, the University of Saint-Gallen has organized the Fifth DESRIST Conference (Design Science Research in Information Systems) on June 4-5, 2010 at St- Gallen.

Several open positions in information systems in Switzerland have been announced on SARIT distribution list, and have been or will be soon fulfilled:
- University of Geneva: 2 open positions in service science (2010)
- University of Lausanne: 2 open positions in information systems (2010)
- University of Zürich: 2 open positions in information systems and cognitive systems (2011).

TC8 events in Switzerland (2011)
Robert Winter, University of St-Gallen has been appointed as the new TC 8 National representative from Switzerland.

With the support of IFIP TC8, the University of Geneva, has organized the Second International Conference on Exploring Services Sciences (IESS 1.1) on February 16-18, 2011 at Geneva.

Jolita Ralyte, University of Geneva, is the general chair of the next IFIP WG 8.1 Working Conference on Method Engineering, on April 20-22, 2011 in Paris. The conference aims to create a dedicated forum where researchers and practitioners will overview the evolution of the field, exchange research ideas and results and discuss the future perspectives.

TC 6 (Communications Systems) – H Rudin
IFIP’s TC6, The Technical Committee on Communications Systems, is an active committee which orchestrates some twenty international conferences and workshops a year. While most of the working groups deal with leading-edge technology, one of the working groups (WG6.9) is dedicated to communicating technical know-how to developing countries. TC6’s working groups are listed on the IFIP site. The Digital Library is a tragedy. He tries to build a system himself with the help of students. He has some funds for the project but lacks of manpower. CR asked for a description of the problem and a skeleton of his projec It was recommended that HR sends this info to all members who are then invited to search possible solutions and advise HR
A request: HR would appreciate receiving Swiss research items for ERCIM News ! ERCIM News articles typically are well-ranked by Google, so this is a good opportunity to describe your research in a one- or one-and-a-half page article. ERCIM News is also a good medium for announcing conferences to be held in Switzerland. Contributions should be sent to hrudin@smile.ch
(Please see http://ercim-news.ercim.org/)

TC 5 (Information Technology Applications) – From Ph. Dallemagne
A number of national representations, which were traditionally active in TC5, that were not present at the last TC5 meetings for several years. The national societies will be contacted.
TC5 executive Committee took place on April 9th. TC5 meeting took place in Vienna on October, 14-15. The General Secretary attended the TC5 meeting led by TC5 Chair Erich Neuhold. The purpose of the participation was to support the TC Chair to inform his TC members about the latest developments within IFIP (mainly from last Board meeting) and to transfer knowledge of the administrative issues to TC members. On the other hand this was the opportunity to get familiar with the work in a TC; especially to know the TC Chair, WG Chairs and national representatives in
person. The general opinion of the TC members was that the participation of the General Secretary was very useful and helps to strengthen the co-operation and the links within IFIP.

TC5 was represented in WCC2010, as well as in the 2010 General Assembly, during which Mr Avram, active in TC5, has been re-elected as Treasurer. As mentioned last year, Prof. Erich Neuhold has been elected TC5. It was officially announced during the 2010 GA.

SIGs and WGs:
- TC5 has approved the "Advanced information processing for agriculture" SIG at the last TC5 meeting in Vienna under the assumption that there will be more international members. Note that a conference was held on this subject (4th international conference on "computer and computing technologies in agriculture (CCTA2010) from Oct. 23-25) organised by the SIG initiator.
- E-governance SIG is still under discussion.
- The WG on "Bioinformatics and Applications" will be formed by TC5 and a separate one by TC12. Both addresses different aspects of Bio-informatics. The first IFIP International Conference on Bioinformatics was held at SVNIT Surat during March 2010 which was a grand success.

The development of the TC5 Website is progressing rapidly. It is available at http://ifip-tc5.org.

Conferences held in 2010
- PRO-VETÇÖ10, the 11th IFIP Working Conference on Virtual Enterprises took place in Saint-Etienne, FRANCE, 11-13 October 2010. It was cosponsored by IFIP WG5.5. See www.pro-ve.org.
- First IFIP International Conference on Bioinformatics was held at SVNIT Surat during March 2010
- PROLAMAT 2010 did not take place. PROLAMAT 2011 will take place, but the details are not known.

Announcements
- Advances in Production Management Systems 2011 (APMS2011), is the official conference of the IFIP Working Group 5.7 on Advances in Production Management Systems. It will take place in Stavanger, Norway, 26-28 September 2011. organised by WG 5.7. It will be preceded by the APMS Doctoral Workshop at the same place, 24-25 September 2011.
- International IFIP Working conference on Enterprise Interoperability (IWEI 2011), to be held in Stockholm 23-24 March 2011. It is organised by IFIP WG5.8. The conference will be co-located with a number of workshops, to be held during the two days preceding the conference.
- PLM11, the 8th International Conference on Product Lifecycle Management, to be held at the Technische Universität Eindhoven, The Netherlands, on the 11thGÇÖ13th July 2011. The subject of the conference is "Virtual Product Life Cycles for Green Products and Services". See www.plm-conference.org.

TC 3 (Education) – R.Morel presented his report:

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From Activities « in and around the TC3 », we can notice :
8. STRASBOURG : Forum « Green and connected cities » (10-11 December 2009) at the EU Parliament
9. The World Digital Solidarity Agency (WDSA) at Lyon
10. January-February 2010 Preparation activities and meeting in Geneva at ITU for the WSIS FORUM in May 2010 (10th to 14th) as usual in Geneva
11. February 2010 in Dubai 3rd eLEX (e-Learning EXCELLENCE Conference)
12. 4-6 March 2010 Board of IFIP at Sofia
13. 16th of April 2010 in Vienna : Annual meeting of the Associated Partners of the MATURE project
   5th WSIS Forum (10-14 May 2010) in Geneva
17. Joint Conference IFIP EGOV 2010 and IFIP ePart 2010
Lausanne 29th of August to 2nd of September 2010 at IDHEAP
19. In Brisbane 20-23 of September 2010 inside WCC’2010
   Conference Key Competencies in the Knowledge Society (KCKS)
   ❖ Brisbane 25-26 of September 2010 after WCC’2010 IFIP GA’2010  cf. Minutes

From « other activities in Switzerland », we can notice :
- The ICT Committee of the SATW was created in 2002 to promote ICT in Switzerland. Raymond Morel, his chairman and member of the SATW Scientific Board, created three working groups: e-Education, e-Inclusion and e-Society which collaborate with many partners

In 2010, among plenty of activities, we have to extract at least three projects :
A) Since January 2010 to october 2010 an interesting project was running under the title « 10 Forums on Educational Trendspotting » http://www.ict-21.ch/com-ict/spip.php?rubrique46
   „A Web 2.0 spirit approach in order to anticipate ICT evolution and keep Swiss education systems competitive“
   Summary of the 10 Forums "Educational Trendspotting" (Jan-Oct 2010) + SFEM at Worlddidac
C) Workshop Münchenwiler November 2010: «Virtualisation des savoirs» / "Die Virtualisation des Wissens"
- Link IP3-CH à IFIP Activities IP3

According to the IFIP Task Force work for the project IP3 (International Professionnal Practice Programme) and the IP3 vision was studied in Switzerland and we produce the following report :

TC 2 (Software : Theory and Practice) From B.Meyer
I have resigned as both the Switzerland representative to IFIP TC2 and as the chair of the Committee. My resignations were effective at the end 2010. I am continuing as interim chair of TC2 until the June annual meeting and have proposed to the members a new management, with the current vice chair as the new chair and the secretary as vice chair. For the Switzerland representation I proposed some names but do not know what has happened.
Please accept my thanks for the opportunities to meet over the years, and my best wishes for the future.
Here is a short overview of TC2 activities in 2010. The details are in the attached report (in the form of minutes for our yearly meeting last June) as prepared by the secretary. I am writing this report not just as Switzerland representative but also as chair of the committee until June.
The annual meeting was for the second time held in connection with the TOOLS conference. This has become a tradition; in 2009 TOOLS and the TC2 meeting were at ETH Zurich; this time it was in Málaga (Spain), on June 28. In 2011 (also June 28) it will be again at ETH Zurich. Our formula, intended to make it worth their time for members to travel, is to include free access to one of the conference's keynotes, then have the meeting, then hold a session where some participants give short talks about their current work. It works: we have increased participation significantly.

As a side note, I still have problems with some national representatives, who never show up (not a question of distance, as the Australian representative, Prof. John Gough, attends about every other year!); also, one of the working groups, WG 2.8 on Functional Programming, has seemingly decided once and for all that they were above traveling for a 2.8 meeting. We have had a heated discussion with the group's officers on this topic over the past couple of years, with no change to their attitude. This year they are submitting a proposal for change of officers, while again not participating in the meeting, and even though this should normally be a trivial administrative vote it is not clear what the result will be.

This small matter is the only point of contention. Otherwise TC2 is doing very well; in 2010 it created a new WG, 2.11 on Service-Oriented Systems, started by Luciano Baresi and Barbara Pernici, both of Italy. This is clearly a critical area and the group has attracted the support of many of the key people in the field. There was some criticism that it was too European in its proposed membership, but the creators are addressing it.

A new proposal is currently in circulation for a working group on Programming Language Design, initiated by Andrew Black, Jonathan Edwards, Gilad Bracha and James Noble. It may be surprising that no such group exists yet; in fact the topic cuts across all of TC2 and there is indeed an intense discussion on whether a new group is necessary. My personal hunch is that it will get accepted in the end, but this is only a guess. It's good to see that we have truly debatable issues.
In Switzerland there was no official IFIP TC2 activities in 2010 as far as I know, but an important event right at the core of TC2 themes should be mentioned (with the disclaimer that I was partially involved in it): the FOSE symposium, Future Of Software Engineering, held at ETH Zurich on 22-23 November 2010, see [http://fose.ethz.ch/](http://fose.ethz.ch/).

I don't think it is an exaggeration to state that this was a historic event, bringing together the top experts in software engineering, both pioneers (Wirth, Boehm, Parnas...) and the rising stars of the new generation. A beautiful proceedings volume was produced; in addition, all the discussions have been taped and transcribed and they will soon be published, adding again to the value of the event.

**TC1 (Foundations of Computer Science) - J.Rolim**


**Special Seminars at Geneva university:**

- Green Internet Routers, Prof. Sartaj Sahni, University of Florida, USA
- Model-Based Design for Modern Computer Games, Prof. Hans Vangheluwe, University of Antwerp, Belgium
- Cloud computing: hot or not? Ian Prince, software architect and co-owner of Inextenso

**Divulgation at the TC1 activities at the following conferences:**

**IEEE DCOSS:**
The 6th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS '10) took place at the UC Santa Barbara Conference Center in Santa Barbara, California, USA during Monday, June 21 - Wednesday, June 23, 2010.

DCOSS is intended to cover several aspects of distributed computing in sensor systems such as high level abstractions and models, systematic design methodologies, signal and information processing, algorithms, analysis and applications.

The conference is co-located with several closely related workshops, and provides a forum for researchers and practitioners to present their contributions related to the above high-level aspects of distributed sensor systems. In addition to contributed papers, the meeting also includes keynote addresses by leading researchers, a panel discussion, and a poster session.

- **SEA 2010:**
The 8th Symposium on Experimental Algorithms took place on May 2010 in Ischia Island, Italy. The SEA meetings are intended to be an international forum for researchers in the area of experimental evaluation and engineering of algorithms, as well as in various aspects of computational optimization and its applications.

- **ICALP 2010:**
The 37th International Colloquium on Automata, Languages and Programming, the main conference and annual meeting of the European Association for Theoretical Computer Science (EATCS), took place from the 5th to the 10th of July 2010 in Bordeaux, France. The main conference was preceded by a series of Workshops on several subjects related to theoretical computer science and topics of the main interest of TC1

- **Random-Approx 10**
The Workshop on Approximation Algorithms for Combinatorial Optimization Problems - APPROX 2010 and the Workshop on Randomization and Computation - RANDOM 2010 was held in Barcelona, during September 2010. APPROX’2010 focuses on algorithmic and complexity theoretic issues relevant to the development of efficient approximate solutions to computationally difficult problems, while RANDOM’2010 focuses on applications of randomness to computational and combinatorial problems. Both focus of Random and Approx are within the main topics of the IFIP TC1.

Remark: The TC 1 WG's are not aligned in the aims and scope of TC 1.

**More generally it was reminded that one of the duties of the TC representative is keep contact with the WG Swiss members of their TC.**

For more details on collaboration and exchange of information, activities and projects between IFIP, SIC, ICTSwitzerland and SATW (Swiss Academy of engineering sciences) consult:


3. Education Committee (KB) of ICTswitzerland  Improving ICT Education & Competency in Switzerland

The Education Committee KB (Kommission Bildung) concerned with ICT education at all levels was renewed and met three times in 2010-2011, reinforced with the participation of educational institutions members (see chapter 1 above with the creation of the « ICT-vocational Education Switzerland »).

KB elaborated two position papers:
- on ICT in Gymnasium
- on ICT for Lehrplan-21 (curriculum for primary and low secondary education)

4. The Swiss Academy of Engineering sciences (SATW) and the ICT Committee with its 3 working groups

The SATW has some 60 member organisations. The ICT Committee of the SATW was created in 2002 to promote ICT in Switzerland. Raymond Morel, its chairman and member of the SATW Scientific Board, created three working groups:

e-Education, e-Inclusion and e-Society which collaborate with many partners


Different kind of events were already organised in Switzerland to bring a scientific and professional contribution towards the revised Government Strategy for the Information Society. Several delegates to IFIP TC's take part in these activities. Some examples:

http://www.satw.ch/organisation/wbr/index_EN
Several seminars in 2010 see below
Workshop at Münchenwiler in May 2010 on:
«Digital Identity, Trust & Confidence»

First results:
- Final conclusions of Working Group 1 (version 22.5.2010 noon)
- Final conclusions of Working Group 2 (version 2.0 du 30.6.2010)
- Final conclusions of Working Group 3 (version 22.5.2010 noon)
- Final conclusions of Working Group 4 (version 22.5.2010 noon)

Work to achieve after the workshop:
- Communiqué de presse SATW en français
- Medienmitteilung Münchenwiler SATW auf Deutsch
- SATW 'ICT NEWS 3/10 Sécurité et confiance: bases de l’e-économie
- SATW 'ICT NEWS 3/10

From Media:
- Netzwoche
  WIE VIEL NORMATIVE SICHERHEIT ERTRÄGT DIE ICT, WIE VIEL BRAUCHT DER USER?
  Netzwoche_Teaser
  Netzwoche_Artikel
- Bulletin SEV / VSE 6.8.2010
  Sicherheit und Vertrauen Basis der E-Economy
  Sécurité et confiance: bases de l’e-économie

Workshop at Münchenwiler in November 2010 on:
«Virtualisation of knowledge» / «Virtualisation des savoirs» / "Die Virtualisation des Wissens"

Role of the keynotes speakers:
three exeperts to enlighten the problematic http://www.ict-21.ch/com-ict/spip.php?article134:
a) Rudolf Blattmann, LSCP (Life Sciences Consulting Partners)
   « Virtual Knowledge Management »

b) Florence Devouard, Membre du Conseil d’Administration Wikimedia France
   (Ancienne présidente de Wikimedia Foundation)
   « La virtualisation des connaissances vue à travers le choc du concept wikimedia »

c) Richard Stallman, pionnier de l’open source et concepteur GNU/Linux,
   Copyleft et Wikipedia
   « Virtualisation of knowledge versus free digital society ? »

The outputs (synthesis) of the working groups and of the workshop :

- **auf Deutsch** :

- **en français** :

- **Bildung im Zeitalter der digitalen Medien**
  SATW ICT INFO 1/10

- **L’éducation à l’ère des médias numériques**
  SATW ICT INFO 1/10

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**10 Forums "Educational Trendspotting"** (Jan-Oct 2010)
followed by **SFEM (Swiss Forum for Educational Media)**
at **Worlddidac Basel 28/29 October 2010**

Since January 2010 to October 2010 an interesting project was running under the title « 10 Forums on Educational Trendspotting » i.e.

"A Web 2.0 spirit approach in order to anticipate ICT evolution and keep Swiss education systems competitive"

It consisted in 10 Forums in two languages (French and German) on ten hot topics dealing with the problematics behind the education in the future. The synthesis of each Forum was presented at SFEM’2010 (Swiss Forum for Educational Media) [http://www.educationalmedia.ch/](http://www.educationalmedia.ch/) during the last Worlddidac Basel end of October 2010 [http://www.worlddidacbasel.com/go/id/ss/lang/eng/](http://www.worlddidacbasel.com/go/id/ss/lang/eng/)

**The 10 hot themes in discussion are** :

1. Having skills in creativity becomes increasingly important. The characteristics of a human being are not those of a machine. *(Technologies vs human being)*

2. The technology lead trends, but why not let their piloting human beings with their training needs? What does it mean if the technologies are out of step with education, while conducting of developments should be directed through education? *(leadership : technologies vs education)*
3. The changing roles of teachers: a behavior ex cathedra to a more "coach" and accompany with an emphasis on autonomy and self-learning?

4. Individualization and autonomy / self-organization of the learner

5. Googlelisation and Facebook, xing, etc. the impact of social networks on education

6. Globalization of the learning (towards the hybrid education)

7. Merchandization of the Education (Opportunities and Challenges)

8. Déinstitutionalisation: the public education system will he reduced to validate qualifications and certifications? (The future of public education systems)

9. From theories on learning to systematic acquisition of knowledge

10. e-Portfolio: each learner produces and develops its own portfolio


**Before the Worlddidac**

- Résultats tirés des discussions dans les forums (1 page)
- Ergebnisse aus der Foren-Diskussion (1 Seite)

Full report to download

**During the Worlddidac**


**On Thursday 28th of November 2010**

Introduction Hanna Muralt Müller

Keynote 1 – Globale Bildungstrends im Visier der IBM – Methoden, Ergebnisse
Referent: Moshe Rappoport, IBM Research GmbH

Keynote 2 – Informelles Lernen im Alltag: Wie Digital Natives lernen
Referent: Dr. Pieter de Vries, TU-Delft

Keynote 3 – Was wurde mit den Foren zu den 10 Top-Trends erreicht? Was ist mit Social-Networks erreichbar?

DRS 2: Gespräch mit Dr. Gloor zum Thema “Coolhunting”

Coolhunting through Swarm Creativity -Trend Discovery by Reading the Collective Mind
Referent: Dr. Peter A. Gloor, MIT, Boston

Talk: Trendsetters und Trends auf dem Prüfstand

Schlusswort: Beat Jost, Geschäftsführer Worlddidac

**On Friday 29th of November 2010**

Intervention d’ouverture

Discours de Gilles Marchand, Directeur Radio Télévision Suisse (RTS)
Keynote 1 – De la transmission des connaissances du XXème siècle à l’acquisition et l’apprentissage du XXIème siècle : quelles conséquences ?
20e anniversaire du WEB : une révolution qui a contribué à l’égalité des chances dans la société ?
Das Weissbuch der Akademien als notwendige Provokation (21 Januar 2010 in der NZZ)
Referentin: Mme Josiane Aubert, Conseillère nationale

Keynote 2 – Quelle école pour la génération numérique ?
Referent: Prof. Bernard Cornu, Directeur de l’Innovation – Centre National d’Enseignement à Distance (CNED), Poitiers, France

Keynote 3 - Le futur de la lecture
Referent: Dr. Frédéric Kaplan, Ecole Polytechnique Fédérale de Lausanne (EPFL)

Keynote 4 - Les résultats de 10 Forums sur 10 tendances majeures - ou Avoir des « lunettes » pour situer les activités de ces 10 Forums
Referent: Raymond Morel - Président de la Commission ICT (SATW)

After the Worlddidac

Les tendances d’apprentissage sous la loupe
Comment enseigner et apprendre demain ?
28 – 29 octobre 2010 dans le cadre de la WORLDIDIDAC Basel

Echo des Trend-Cafés du vendredi 29 octobre 2010

Lern- t- auf dem Prüfstand
Wie lehren und lernen wir morgen?
28/29. Oktober 2010 im Rahmen der WORLDIDIDAC Basel

Echo aus den Trend-Cafés vom Donnerstag, 28. Oktober 2010

Positionspapier für die Stiftungsratsversammlung der SSAB vom 10.3.2011

Positionspapier April 2011
“Bildungstrends als Folge neuer Informations- und Kommunikations-technologien”

Document de synthèse avril 2011
« Tendances de la formation issues des nouvelles technologies de l’information et de la communication »

MORE INFORMATION : @ http://www.educationalmedia.ch/keynotes/
@ http://www.educationalmedia.ch/archiv-2010/

Comments : A very good reference (a book to read asap !)

1. The project began with a seminar at distance on the new plateform L4D (Learning for Democracy)
2. In April (1st-2nd) took place at Münchenwiler castle a workshop to define key issues for the 6 interactive Forums to be held between May and November 2011 as hot topics for the 2011 educational trendspotting.

3. Since May 2011 till November 2011, finally 4 Forums will be held on some specific hot issues as an example the Forum 5 on « Transversal Capacities »
5. Link IP3-CH → IFIP Activities IP3

According to the IFIP Task Force work for the project IP3 (International Professional Practice Programme) and the IP3 vision was studied in Switzerland and we produced the following report:

http://www.ifip.org/index.php?option=com_content&task=view&id=62&Itemid=122

Project IP3.ch
“A Nation at Risk”

First Report
By
Reginald Mendel (IFIP CH, Swiss representative)
François Mischel (IFIP CH and ICICT representative)
Theresa Herden von Beer, Andreas Springe, Ruedi Baerl (former Fachhochschule)
Renate Schmid (BASIC, Vispa, Fribourg)
Paul Taunay (31 January 2008)


FIRST DRAFT PROJECT IP3-CH REPORT PRESENTATION IN JUNE 2008

Since February 1998, the Swiss Government has been conducting a massive campaign to promote the information and communication technologies (ICT)
In the text which forms the basis for the Confederation’s actions in this area, various official bodies were mandated to lead the federal administration’s ICT activities and to make the Swiss population aware of the challenges of the information era.
The site http://www.bakom.admin.ch/themen/infosociety/index.html?lang=en was established which describes the federal actions in promoting ICT.
As mentioned in earlier annual reports, the ICT Committee, including several IFIP TC representatives, contribute actively to these activities.

After adapting this 1998 strategy, the Federal Council announced in January 2006 its first revision with two major priorities.
By the end of 2006 a national strategy for each issue of e-governement and e-health was to be elaborated in cooperation with the cantons. The concept for internal government use of electronic data and documents had to be finalised by mid-2007.

- e-Government Strategy
- e-Health Strategy

These developments give the opportunity to SATW to express its determination to collaborate and to achieve a more complete information society in Switzerland (see above ICT Commission (SATW) and below e-Power initiative)

In 2010-2011 begun the 2nd revision of the National Strategy to apply since January 2012

Other References:

- Other activities and Initiatives
  The education sector
  The new "IT" sector of education has existed in basic professional education since 1993: it plays a significant role in promoting young talent in information and communication technologies.

- Electronic voting
  The electronic voting systems which have been developed are now available to all other Swiss cantons. It is up to the cantons to examine which system best meets their own needs. The Federal Council approves the use of electronic voting for federal referenda.

- Management of the domain names
  Among other things, domain names make it possible to allocate a unique address to every website. Such names, for example www.ofcom.ch, are used very frequently today, above all for accessing websites or sending e-mails.

- The legal foundations
  In order to face the new challenges of our information society, several laws have been revised.

- Organizations / Initiatives
  This webpage introduces some of the activities of organizations or initiatives related directly to the implementation work of the Federal Council's Strategy for the information society in Switzerland.

- Culture
  Since the year 2000, the Federal Office for Culture has been dealing with the questions thrown up by technological progress in the heritage institutions and in May 2008 presented the expert report entitled "Memopolicy. A Confederation policy on Switzerland's memories".

  The Swiss information society in figures

- Swiss portal ch.ch

- The Federal Authorities of the Swiss Confederation web site
7. SARIT (Swiss Association for Research in IT) - http://www.sarit.ch

In 2010 SARIT continued its active participation to SIC activities through his very active Board, in particular Patrick Furrer who is also SIC member.

A new SARIT President was elected, following the retirement of Prof. Daniel Thalmann. SARIT’s new president is José Rolim, from Geneva UNI.

In the normal process of Swiss IFIP TC delegates nominations, SARIT confirmed the following nominations:
- TC 8 Information Systems: Professor Robert Winter, UNI St Gall replacing Prof. Yves Pigneur, UNI Lausanne.
- TC 9 ICT and Society: Professor Jean-Loup Chappelet, IDHEAP and UNI Lausanne replacing Prof. Lorenz Hilti, EMPA.

It issued calls for nominations for new IFIP delegates for appointments in 2011:
- TC 2 Software - Theory and Practice: after Prof. Bertrand Meyer resignation.
- Special case: TC 6 Communication Systems. In addition to our current representative Harry Rudin, a second delegate position representing the users and user associations is still open.

The reorganization and restructuring of the national ICT organisations in Switzerland have started in 2010 what will have an important influence on the future of SARIT.

A reunification of SARIT and SI-CHIP was discussed. A closer cooperation with SI (Swiss Informatic Society) and a more intimate involvement of Heads of IT Departments of Universities, ETH’s and Applied Science Universities in Switzerland should foster a stronger position of the Swiss ICT Research stakeholders both on the national and international scenes. The new organisation should be announced and established in 2011.

For more info: http://www.sarit.ch/swiss-ifip-committee/index.html

8. Activities ECDL in Switzerland 2010/2011

ECDL: European Computer Driving Licence
ICDL: International Computer Driving Licence (in countries outside Europe)

The ECDL’s contribution to overcoming the digital divide in the world has again been extremely successful in the past 12 months when more than 1 million new candidates were registered. This adds up to a total of over 11 million candidates in 140 countries who have registered in the ECDL/ICDL programme to date.

In Switzerland the ECDL certification programme remains as attractive as ever. In 2010 over 17’000 candidates have registered in Switzerland. 2010 was also the year when the 5th edition of the ECDL syllabus was successfully introduced in over 300 test centres in Switzerland. This shows how the ECDL Foundation keeps updating the ECDL syllabus and the test systems to stay in line with technical developments in the field.

Once again, ECDL/ICDL has proved to be the most effective instrument to help raise the level of digital literacy in Switzerland and all over the world.

9. e-Power

In order for Switzerland to place itself as the leader of ICT in the field of e-Government, e-Health, e-education and research and development, the initiative “more e-Power for Switzerland” was launched in May 2005 (cf. CH report to GA in 2006). (http://www.epower-initiative.ch)

The “ePower for Switzerland” initiative, together with top representatives of national politicians and businesses, organises regular sessions to exchange information about information society topics. On this basis, parliamentary initiatives and concrete implementation projects have been launched. The initiative is actively supported by many companies and organizations. The main activity during the reporting year was active lobbying in favour of the initiators and partner objectives for a strong ICT in Switzerland.

10. A Digital Agenda for 2020 in Switzerland

March 2011, a 40-pages brochure to become conscious that Switzerland is not anymore leader in ICT and needs a strong agenda to achieve to be in a better position in 2020.

11. Refer to my reports as TC3 Special Consultant and as member of the ILC for the following subjects:

- Participation to **GA’2010** in September at Brisbane and the four days before: active participation and contribution to **WCC’2010 + 50th IFIP Anniversary**

- In Brisbane 20-23 of September 2010 inside WCC’2010 Conference: **Key Competencies in the Knowledge Society (KCKS)**

- In Poitiers 2-4 of December 2010
  - **IFIP TC3 Executive meeting:**
    - Unesco connections
    - Next WCCE’2013 (50th TC3 anniversary !)
    - AGORA initiative as a transversal approach → Learning 3.0
    - After WCC ’2010 at Brisbane ===> KCKS (Key Competencies in the Knowledge Society) → feedbacks
    - EU projects
    - OECD projects
    - Web 2.0 tools and TC3 web site (… and IFIP web site)
    - TC3 Strategy and action plan
    - Etc.

- In Dubai 31 January-3 February 2011 **4th eLEX conference**

  Contributions from the IFIP AGORA team
  - **SIG2: New trends in Teachers Education**
    The SIG panel will serve as a venue for academics, researchers, and practitioners to raise and discuss issues pertinent to adequate pre-service and in-service teacher training for the technology enhanced classroom of the 21st century.
  - **A Post-Conference Workshop**
    Learning Organisation & Lifelong Learning Approaches to Teacher Education
    IFIP Workshop [Towards a Sustainable Teacher Education in a Knowledge Society]

- **The World Digital Solidarity Agency (WDSA) at Lyon**

  As vice-president of the WDSA Executive Committee and delegate for IFIP:
  (four meetings in Lyon (22of October 2010, 7 February 2011, 29 of April 2011 and 21 July 2011)
  Notice the new project SANKORE cf [http://www.jumelages-sankore.org/](http://www.jumelages-sankore.org/)

- ITU-UNESCO-UNCTAD facilitators for WSIS (World Summit of Information Society)
  - **6th WSIS Forum 2011** (10-14 May 2010) in Geneva
    → From the WSIS Flash News of June 2011

  [http://groups.itu.int/stocktaking/WSISFlash/WSISFlashJune2011Issue.aspx](http://groups.itu.int/stocktaking/WSISFlash/WSISFlashJune2011Issue.aspx)
The report was prepared by the Partnership on Measuring ICT for Development’s Task Group on Measuring the WSIS Targets under the leadership of ITU, and in consultation with many experts in the field of ICT measurement. It is expected to become the main reference document for the final review of the achievements made towards meeting the WSIS targets in 2015.

• With UNESCO and especially IITE in Moscow, the mission for Armenia:

The visit was accomplished from 26th to 31st of May 2011 ➔ a report with 16 recommendations to the Minister of Education is completed for the end of August (47 pages). IFIP and TC3 flags were well received.

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  Contribution of Raymond Morel on “Social networks and Educational Trendspotting”

• Preparing a workshop MATURE-AGORA in Barcelona for october 2011

• Looking for preparing another UNESCO-IITE mission in Azerbaidjan

• Smart E-Learning Russia 2011 Moscow, Russia - From 08/06/2011 to 09/06/2011
  http://www.cen-ltsol.net/Main.aspx?events=1029
  International education forum “Smart E-Learning Russia 2011” is one of the biggest annual conferences in e-learning and education in Russia. More than 200 specialists from different regions of Russia take part in two days event. During the conference days you can visit different plenary sessions, workshops.
Organized by: MESI - Moscow State University for Economics, Statistics and Informatics

http://elbep.anadolu.edu.tr/Mesi.htm

It was also the 70th Jubilee of Acad. Vladimir Tikhomirov - Academic Supervisor of MESI - President of International e-University Consortium

My contributions:

1. Keynote on How to Imagine “Sustainable Education”? (Disruptive Technologies vs Key Competencies and Complexity Management 2.0)

2. Plenary Round Table

Education in the Smart Society: What Should it Be?

How can we get extra effect using ICTs in education? What are the ways to produce and transfer efficiently new ideas and knowledge in information environments? What are required characters of teachers providing the students with knowledge and what will be the students in several years? Should be the traditional approach to education changed and what for? Or no changes – what result?

I limited myself in this round table to … DIGITAL PEDAGOGY

3. Workshop – Master Class on From Learning Organisation to Governance 2.0 and Social Network

IFIP, AGORA and TC3 flags were well received

- the Mombasa TC3-WGs conference in Aga Khan Academy (16 to 19 August 2011 on IIGWE2011: ICT and Informatics in a Globalized World of Education

Facing the Future – Reflecting the Past http://www.iigwe2011.org/

Contribution of Raymond Morel to the panel discussion on international co-operation: lessons learnt

IFIP, AGORA and TC3 flags were well received.

- Always 2 links with important EU projects:

  The MATURE Project
  http://www.mature-ip.eu/
  http://www.ifip-tc3.net/IMG/ppt/6JMmature_agora_final.ppt

  The European Network of Living Labs (ENO.LL)
  http://www.openlivinglabs.eu/
  http://www.ifip-tc3.net/IMG/pdf/eJOV10_SPILL8_Mulder_Velthausz_Kriens_Harmonization%20Cube.pdf

- Assessing the effects of ICT in education

Indicators, criteria and benchmarks for international comparisons

- SMART Project  Workshop in Brussels 18-19 January 2011 on The role and Impact of Professional and Scientific Societies in ICT Research, Education and Innovation

Presentation summary:

12. AOB

- Various articles in CH newspapers

- Strong contribution to the National Task Force activities for « ICT and Education » --> spreading IFIP's ideas for integration after the last WC’s.
Since November 2005 the Board was upgraded to a permanent National and Legal Board (SKIB) for ICT in the whole domain of Education with all the partners (Federal Office for Telecom – OFCOM/BAKOM, the State Secretary for Sciences and Research – SER, the National Office for Professional Technology – OFFT/BBT, the Federal Office of Statistics – OFS/BFS, the teachers trade unions, the head of the National Educational Network and ICTswitzerland. The chairman of SKIB is the General Secretary of the 26 Ministers of Education SKIB = (Schweizerischen Koordinationskonferenz ICT und Bildung)

- Hundreds of messages with e-mail
- Active participation for diffusion of all informations for forthcoming IFIP events (usual tasks : call for papers, preliminary program, reviewing, organisation of the national contribution, then post-conference feed-back)
- Meetings with the SI Committee (Swiss Informatics Society) and KB (special interest group for Kommission ICT Bildung). SI is the leader for ECDL
- Report (meeting in Bern) at the Swiss Committee for IFIP January 2011 and Networking Party organised by ICTswitzerland in January 2011 (more than 800 participants of all domains (industries, education, business, decision-makers, politicians, etc.)

Raymond Morel
Swiss GA Representative
Member of the IFIP ILC
Geneva, September 2011
in collaboration with P.-A. Bobillier