



to support EU eInclusion and eAccessibility

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# WORKSHOP

**Proposal no.: 004111**

Workshop05b at CSUN 2007, March 22, 2007

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Information Society  
Technologies

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<b>Contributors</b>	<b>Priska Feichtenschlager, Barbara Arrer</b>
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## 1 EXECUTIVE SUMMARY

Information and Communication Technology (ICT) for people with disabilities and Assistive Technologies (AT) has established itself as a scientific discipline and an important field to improve the quality of life for people with disabilities.

CSUN, AAATE and ICCHP have been meeting places for leading experts in this field to support this development and they are dedicated to support the advancement in the future. A closer co-operation of these events and ongoing exchange have been identified as unique opportunities for the AT field.

The workshop at CSUN was a follow up activity to the ICM meeting held at ICCHP 2006. CSUN invited a panel of experts to further discuss issues of international and global concern.

For CWST and the European experts invited taking part in CSUN was a good opportunity to see the active interaction between

- End users
- Service delivery
- Research and Development
- AT and general industry
- Policy and administration

CSUN is a unique example how this exchange and cross-fertilisation could be put in place. The lack of interaction between these stakeholders has been identified as a major problem in Europe in CWST and other meetings and publications.

During the workshop a panel of 11 experts met to discuss possibilities of conference and international co-operation to push the field forward.

## **2 PREPARING AND RUNNING THE WORKSHOP**

The workshop was planned during the CSUN conference to enable the invited guest to get to know the CSUN conference model and to involve experts from American countries into the discussion at international and global level.

All conference facilities including registration, meals, disability support have been provided through the CSUN conference office.

The workshop was held by invitation of CSUN (for US and international guests) and CWST (for European participants). CSUN offered the participant access to the conference for free and for several participants also accommodation.

### ***2.1 Invitation/application/nomination of chair***

Harry Knops from IRV agreed to chair the meeting. As chair from the ICM meeting in Linz he prepared the meeting based on the results of the Linz meeting.

The following letter of invitations has been sent to selected experts:

Invitations have been sent out to experts based on a) registration to CSUN, b) invitation by CSUN, c) invitation by CWST.



## **“US – European Co-operation”**

Thursday, March 22, Renaissance  
Montura Hotel, Pacific Room, from 9:00 am

### **Distinguished Colleagues!**

Thank you for taking part in CSUN's 20th Conference on Technology and Persons with Disabilities!

Information and Communication Technology (ICT) for people with disabilities and Assistive Technologies (AT) has established itself as a scientific discipline and an important field to improve the quality of life for people with disabilities.

CSUN and other conferences have been a meeting place for leading experts in this field to support this development and is dedicated to support the advancement in the future.

Due to this we would like to use the opportunity of this years' CSUN conference to bring together a panel of experts and discuss topics which are, in our mind, of particular importance for the near future of our field.

The meeting is a follow up event of the International Concertation Meeting in the Frame of ICCP 2006, Wednesday, July 12. This meeting discussed a considerable list of important topics and we would be like to use this meeting to discuss some issues further on.

Of course the meeting invites you to bring other important issues to the agenda! It should be seen as a forum for open and inspiring discussion and exchange.

### **Topics/Agenda:**

1. Aiming at excellence: cluster of events in AT and ICT
  - a. why: rational of co-operation
  - b. benefits for organisers (marketing, sharing of tools, invitations, quality mark, ...)
  - c. benefits for the field
  - d. risks of co-operation: competition
2. Handbook, checklist for accessibility of conferences, meetings, .....: quality criteria and support for meetings: scientific quality, business involvement (exhibition, meetings, ...), organisational (accessibility), politics involvement, people with disabilities and how they could support each other:
3. Co-operation and exchange in
  - a. Access to abstracts/papers/... for check for double submissions: DB
  - b. Tools (e.g. web system)
  - c. Publishing

- d. Speaker
- e. Session topics
- f. Sponsoring possibilities
- g. Involvement of industry
4. PR co-operation and support
5. Platform for researchers exchange, using existing programmes for exchange: national, bilateral, international: meeting at each conference
6. History in AT, reha technology, ... - bringing publications of conferences together : One stop shop based on agreement with publishers (like ACM, IEEE)
7. Supporting national and international policy: Making conferences a meeting place for policy makers and reporting results into appropriate channels
8. Industry involvement

Mary Ann Cummins-Prager (CSUN), Hary Knops (CWST), Klaus Miesenberger (CWST)  
(Meeting Chairs)



## **2.2 Agreement with CWST**

The workshop was a joint organisation between CSUN and CWST. It was agreed that

1. CSUN provides all meeting facilities including
  - a. a meeting room
  - b. a small reception of experts the evening before the workshop day
  - c. lunch at the workshop day
  - d. free access to the conference for selected experts
  - e. accommodation for selected experts
2. CWST provides
  - a. Meeting chair
  - b. Organisation (invitation, agenda, minutes)
  - c. Travel and accommodation of selected European participants

Due to the existence of a memorandum of understanding between CSUN, AAATE and ICCHP (see deliverable DL26\_ICM3\_ICCHP06) the organisation of this workshop could be handled in this framework and there was no need for a further agreement.

## 2.3 Workshop office

The conference office of CSUN was also used for the workshop meeting (registration local organisation). Invitation and preparation of the workshop was done in the CWST office in Linz.

Participation in the workshop was only on invitation basis. All invited experts took part in CSUN and registered for the conference.

## 2.4 Budget

A good part of organisation costs have been covered by CSUN. The preparation of the invitation and the meeting was done by CWST (Linz and AAATE). Due to this only a limited budget was used for the meeting for organisation (e.g. invitation, minutes, and distribution of information). The scientific co-ordination was done by Harry Knops and Klaus Miesenberger in the frame of their regular job, only the hours of work at the CSUN must be charged.

The following table outlines the costs which have been billed to CWST. “Non costed” wants to outline the estimation of costs for the involved organisation not budgeted to CWST (“in kind”)

Workshop 05b	01/01/06	30/06/07	Los Angeles/USA			
Expenditures	non costed	CWST				Detailed description
		Period 2		Period 3		
		IS	OCG	IS	OCG	
Staff costs	490	336	89	0	124	
Organisation	490	336	89		124	Organisation of CWST workshop
Management				1.421		Miesenberger at CSUN
Travel and hotel costs	0	0	0	1.709	0	
Miesenberger, CSUN				1.709		
Overheads	0	67	18	342	25	
<b>Total expenditures</b>	<b>490</b>	<b>403</b>	<b>107</b>	<b>2.051</b>	<b>149</b>	

Overview	non costed	CWST
Staff costs	490	549
Travel and hotel costs	0	1.709
Overheads	0	452
<b>Total expenditures</b>	<b>490</b>	<b>2.710</b>

## 2.5 Local Facilities

An excellent conference room was made available in one of the CSUN conference hotels.

## **2.6 Hotel: Reservation, Booking, Co-operation**

The CSUN facilities (conference hotels) were used for guest of the workshop. Reservation was done via the conference office.

## **2.7 Special needs arrangements**

CSUN support was available for participants with disabilities. No requests for support have been made.

### 3 Scientific Report

The workshop meeting has been organised by the California State University as a follow up meeting to the ICM meeting held at ICCHP in Linz, 2006. The discussions in Linz (see deliverable DL26\_ICM3\_ICCHP06) led to a decision that such meetings should become a general event at the conferences CSUN, AAATE and ICCHP. The discussions should stimulate international exchange and co-operation.

Mary Ann Cummins-Prager, general manager of the CSUN conference, acted as the host of the meeting and provided the facilities needed for the meeting. She sent out together with CWST an invitation to selected experts and organised the meeting in the frame of the CSUN conference.

The evening before the meeting the board members of CSUN invited to a dinner. This underlines the importance of such meetings as strategic activities for the development of international co-operation and the AT field in general.

#### 3.1 Participants

The following list presents the invited experts and their affiliation:

- Päivi Tahkokallu (Finland), Satkes / Edean (Design for All): Background in Design and Design History, works for Stakes in Finland: EDeAN National Contact Centre in Finland
- Jaime Sanchez, University of Santiago, Chile: ICT/AT researcher and expert, specialised in vision impairment (cognition and learning of blind people, 3D audio; what happens in the brain when they play games)
- Roberto Díaz del Campo L., Antarq Tecnosoluciones, Guanajuato, Mexico: AT provider
- Mary Ann Cummins Prager (Background in education leadership, Head of the Center on Disabilities at California State University supporting about 1000 students with disabilities, most have learning disabilities and psychological problems; organiser of the CSUN conference)
- Ima Placencia Porrero (Human Factors background, in particular related to perception; working for the European Commission in the ICT/AT related programmes Tide, Telematics, D4All, eEurope, driving force behind EDeAN; engaged in the dialog with US on Section 508 and EU eInclusion issues, organiser of the Tide congresses)
- Jeff Juttai (Lawson Health Research Institute, London, Ontario, Canada; psychologist, AT outcome research, aging research, RESNA member)
- Frank DeRuyter (Duke University, Durham; speech and hearing in medical research, ACC specialist: R&D, AT outcome research, RESNA member)
- Dominique Burger (INSERM, BrailleNet, France, ICT/AT expert, in particular for people with vision problems, chair of the Brailenet Association)
- Harry Murphy (Founder and former director of the Center on Disabilities at CSUN, founder and former director of the CSUN conference)
- Harry Knops (IRV, The Netherlands, CWST project partner)

- Klaus Miesenberger (University of Linz, Austria, CWST project co-ordinator, background in Computer Science and AT)

## **3.2 Outline of the discussion and results**

### **3.2.1 Welcome Mary Ann Cummins Prager**

### **3.2.2 Introduction by Harry Knops**

Update: Harry Knops summarized the results of the last meeting in Linz during ICCHP and outlined the following 3 topics as most important areas which should meet with according attention in the AT field

- Policy including standardisation and legislation*
- Professionalisation of researchers*
- Knowledge exchange: conferences and access to resources*





California State University  
**Northridge**



**AAATE**

# R&D, Research and application of Assistive Technology

## International Co-operation



California State University  
**Northridge**



**AAATE**

- Report from Linz 2006
  - 21 experts from 12 countries
  - Major topics of interest for international co-operation:
    - Policy including legislation, standardisation
    - Professionalisation of researchers
    - Knowledge exchange:
      - Conferences
      - Access to resources



California State University  
**Northridge**

 JOHANNES KEPLER  
UNIVERSITY LINZ  
Research and Teaching network

**AAATE**

- **Ambition:**
  - Settin up an International virtual community for discussion, exchange and development in the area's of:
    - Policy
    - Professionalisation of researchers
    - Knowledge exchange:
      - Conferences
      - Access to resources



- In Linz we identified that there is a need for international co-operation.
- Today we want to talk about **How we can establish this co-operation?**

### 3.2.3 Presentations

The discussion focused on possibilities and areas for co-operation at international and global level.

Participants were invited to present input statements. The following presentations were given:

- Klaus Miesenberger: Aiming at Excellence: Cooperation of AT and ICT events



## International Meetings Co-operation for Quality



## Basic Idea: SSA

### CWST(SSA)

Conferences, Workshops, Seminars, Tutorials  
to Support eINCLUSION (004111)



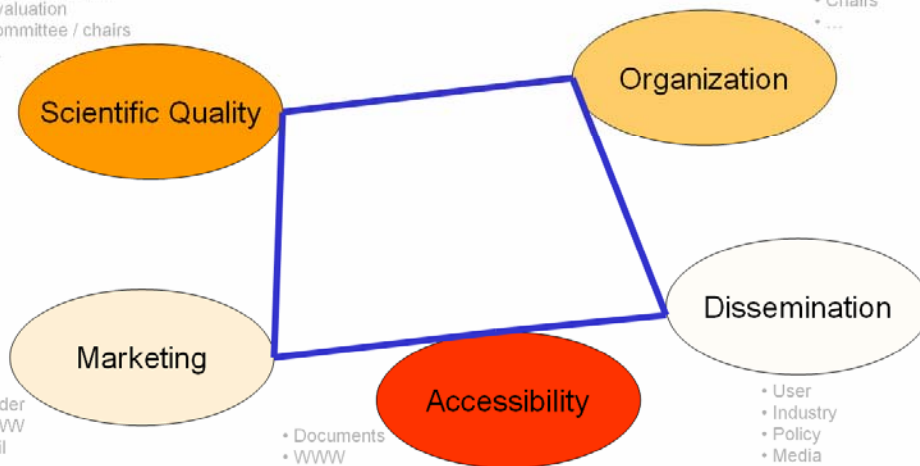
# Co-operation

1. Why
2. What
3. Who
4. When

# Why?

- submissions
- review criteria
- co-ordinated focus
- keynote speaker
- evaluation
- committee / chairs
- ...

- Submission
- Review
- Registration
- Chairs
- ...

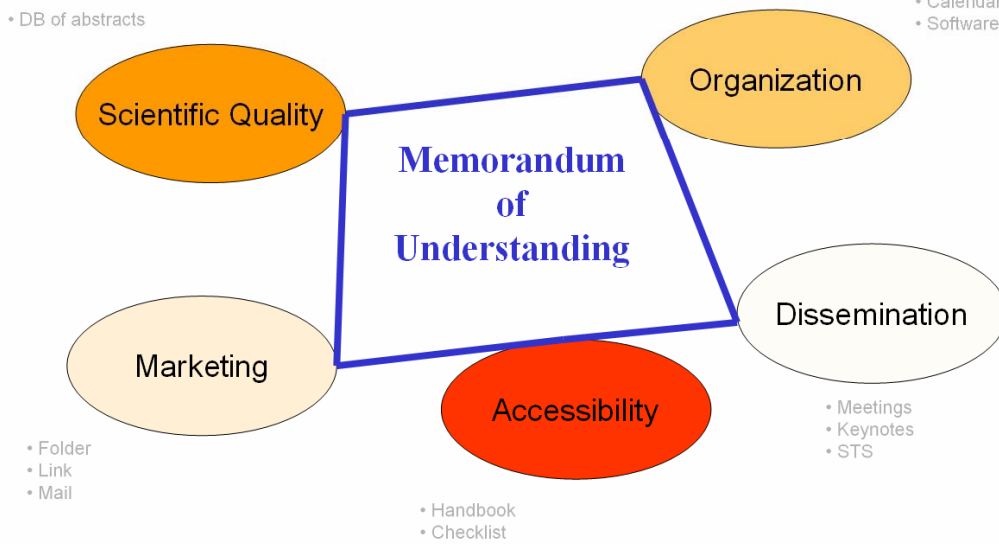


- Folder
- WWW
- Mail
- ...

- Documents
- WWW
- Location
- Hotel
- ...

- User
- Industry
- Policy
- Media
- Awareness
- ...

# What?



# Who?

- CSUN – ICCHP
- Planend: CSUN – AAATE
  
- HCI
- Colloque INSERM
- EDeAN
- ...

## When?

?

## Why not?

- Competition?
- In our interest and also in interest of the field?
- Exclusive?
- Costs?
- Risks?

- Päivi Tahkokallu: DfA/UD and AT researcher exchange platform proposal



DfA/UD and AT researcher exchange platform proposal

Los Angeles

22 March 2007



PÄIVI TAHKOKALLIO

STAKES — R&D ON WELFARE AND HEALTH

FINNISH DESIGN FOR ALL NETWORK

<http://dfasuomi.stakes.fi>

[paivi.tahkokallio@stakes.fi](mailto:paivi.tahkokallio@stakes.fi)

[mira.koivusilta@stakes.fi](mailto:mira.koivusilta@stakes.fi)



## PROPOSAL

Establishing a CWST platform for DfA/UD and  
AT researcher's and students mobility activity

Mapping existing exchange possibilities

Creating a website with relevant information to  
DfA/UD and AT researchers and students

Identifying universities and research institutions  
with an interest in supporting exchange in the  
field



## NEXT PHASE

Joint degree programme on DfA/UD/AT:  
Options European (Mundus), EU-USA, EU-  
Canada

DfA/UD/AT researcher network: Rethinking  
Design for All and Assistive Technology

From discussion forum to joint international  
research projects and/or programme



## EXISTING EXCHANGE OPPORTUNITIES

EU - Lifelong learning - Sectoral programmes: Socrates

Erasmus Mundus Masters Courses

Erasmus Mundus Scholarships:

- research and teaching assignments
- for Europeans: research outside Europe
- for non-Europeans: research in Europe
- 3 month stays / 13 000 euros

European Researcher's Mobility Portal

[http://ec.europa.eu/eracareers/index\\_en.cfm](http://ec.europa.eu/eracareers/index_en.cfm)

- by country, organisation, Marie Curie vacancies



**EXISTING EXCHANGE OPPORTUNITIES...**

**EU - USA Cooperation Programme in Higher Education  
and Vocational Education and Training 2006-2013**

Transatlantic degree action

Excellence mobility projects

Policy oriented measures

Schuman-Fulbright action

[http://ec.europa.eu/education/programmes/eu-usa/index\\_en.html](http://ec.europa.eu/education/programmes/eu-usa/index_en.html)



**EXISTING EXCHANGE OPPORTUNITIES...**

**EU - Canada Cooperation Programme in Higher  
Education and Vocational Education and Training  
2006-2013**

[http://ec.europa.eu/education/programmes/eu-canada/index\\_en.html](http://ec.europa.eu/education/programmes/eu-canada/index_en.html)

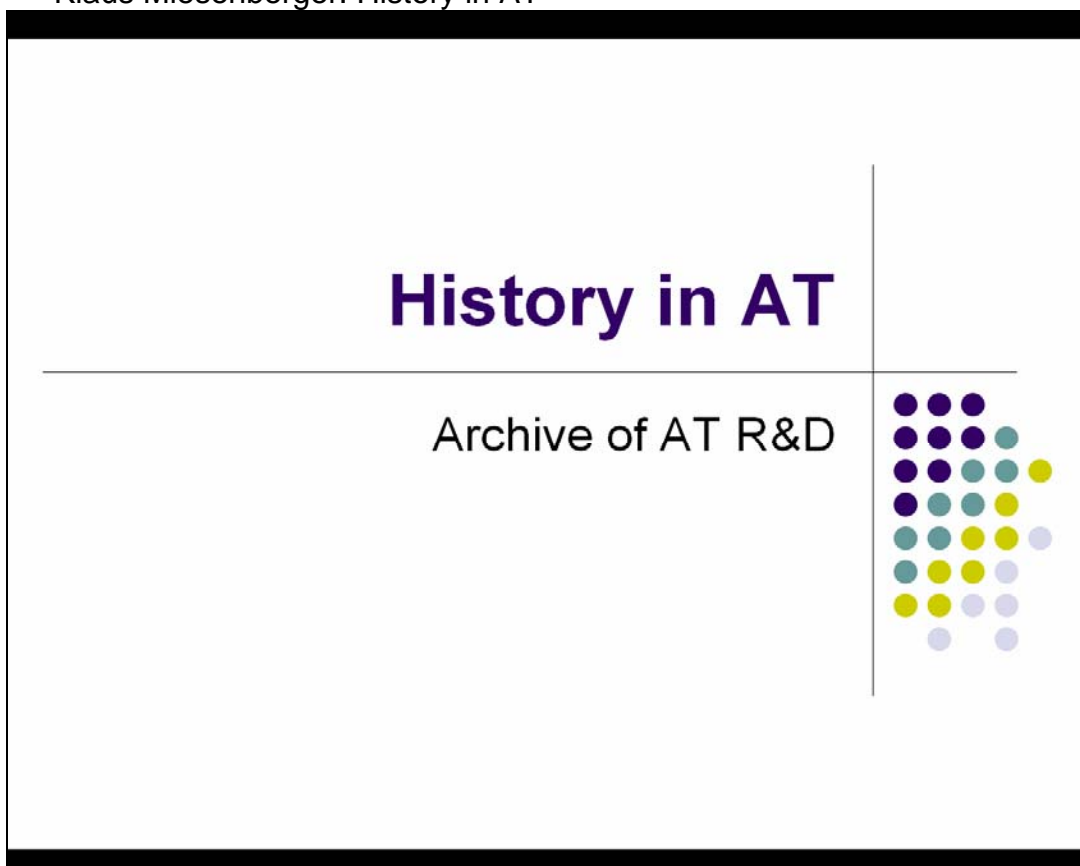
Transatlantic exchange partnerships (TEPs)

EU/Canada Joint study and/or Training programmes  
- joint programmes and student/faculty mobility  
call open 16 March - 31 May 2007





- Klaus Miesenberger: History in AT



## Honoring the giants in AT



*Pigmaei gigantum humeris impositi  
plusquam ipsi gigantes vident*

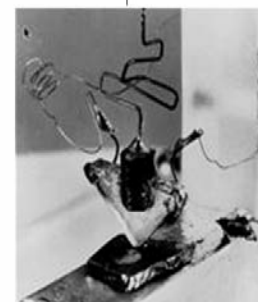
*(Bernhard von Chartres, 1130, based on a  
quote of Lucan)*

*(On the shoulders of giants  
also pygmies can see more  
than the giants themselves.)*

## Archive of AT R&D



- Reinventing the wheel
- Learning from history
  - Success stories
  - Successful failuers
- Support for research and teaching



**John Bardeen:** Nobel prize  
winnig (1956) invention transistor –  
resulting form research  
strongly related to work  
on improvements for hearing aids

## History of AT



- Timeline
- Wiki
- Publications
- Conference Sessions
- Keynotes
- ...

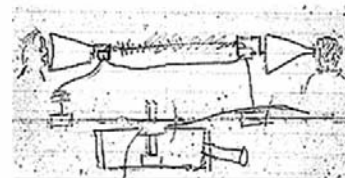


**Pellegrino Turri:**  
First typewriter to enable  
his blind girl friend  
Countess Carolina  
Fantoni da Fivizzano  
to write love letters

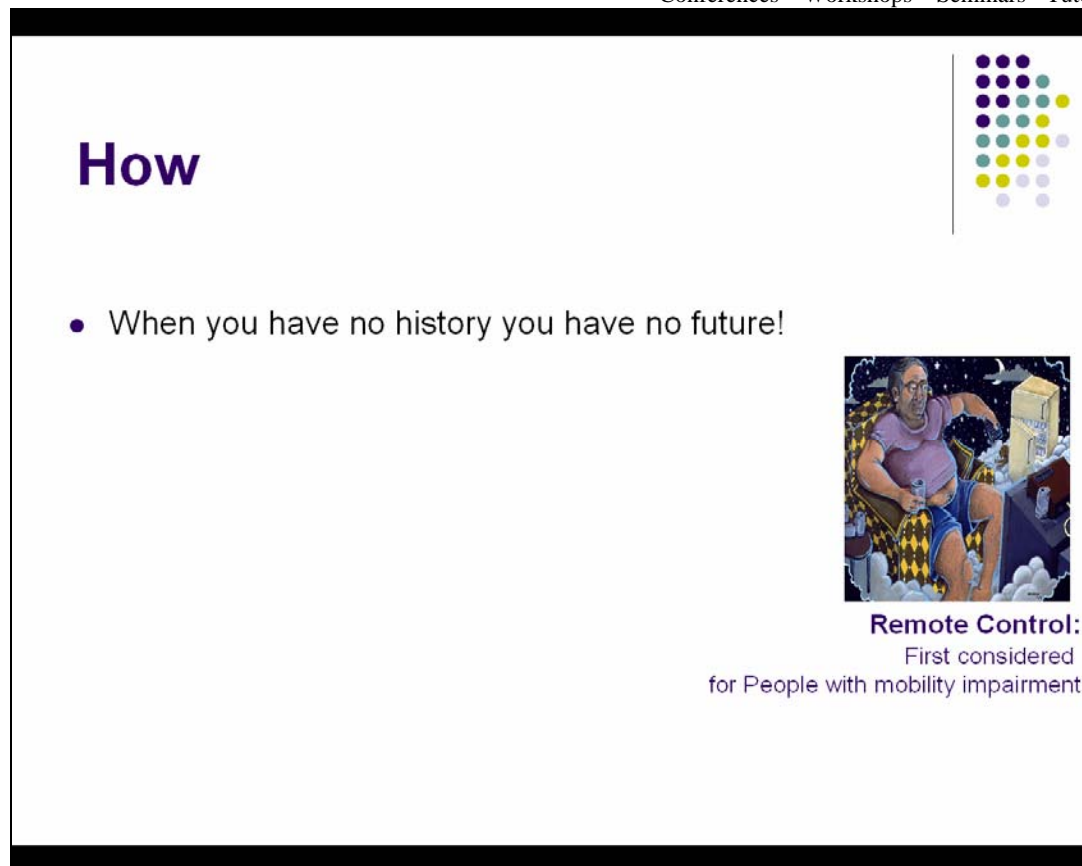
## How



- BASED ON THE PROCEEDINGS OF OUR CONFERENCES
- Copyright issue
- Committee of Committee Members
- Project
- ...




**A.G. Bell:** Ideas for the  
telephone to support  
hearing impaired people



**How**

- When you have no history you have no future!



**Remote Control:**  
First considered  
for People with mobility impairment

### 3.2.4 Inputs and discussion

Further on the following issues were brought to discussion by short presentations by invited experts and the following discussion.

#### Conference Co-operation

- Ima Placencia-Porrero mentioned that the TIDE congresses brought together industry, policy and research, which is no longer organised. Other conferences should take over this role. She spoke about a user conference in the EU and supported by the European Commission.
- Klaus Miesenberger emphasized the problem that in Europe only researchers are ready for international meetings as practitioners often lack according language skills. This leads to the fact that end users and practitioners involvement is only possible at local level where no R&D conferences take place. Europe needs an other model of co-operation between stakeholders.
- Frank DeRuyter discussed that there is a strong need of going beyond proceedings in conferences: reflection, integration of new aspects, synthesis of research activities is needed to show evidence for R&D
- Klaus Miesenberger underlined the need that conferences are still to be oriented towards a broader audience including end users, policy and industry; CSUN can be seen as an example of a mixture of end users, industry and researchers. Such a meeting place is not available in Europe.

- Mary Ann Cummins-Prager reported that ageing has been established as a research topic at the CSUN conference meeting with considerable interest
- Harry Murphy outlined the need for conference co-operation. There is a growing number of events in the field but there are only a few which are able to provide long lasting support to the field. These events should co-operate and cross fertilize each other.
- Klaus Miesenberger spoke on plans to start a history session at ICCHP to raise the awareness on the existing state of the art and to avoid reinventing the wheel. A first step could be a collection of abstracts in conferences like CSUN/AAATE/ICCHP.
- Jeff Juttai recommended a platform for ongoing discussion also outside of conferences to keep the discussion alive.

### **R&D Take-up, AT application, Industry involvement**

- Jeff Juttai outlined results of the R&D outcome research in the AT field and underlined the necessity of sustainable partnership between industry and R&D
- Harry Knops complained that research is too much university/academia based and often has no relation to practice: The translation of results for organisation and practitioners is missing
- Jeff Juttai explained the need of cross-sector co-operation for successful application of AT as well as R&D. He discussed the co-operation of care and geriatric as an example how this could work.
- Päivi Tahkokallu emphasised the importance of industry co-operation in Design for All. Taking up the knowledge of design for all for the benefit of users with disabilities, the aging population and for an increased usability in general is still lacking
- Roberto Díaz del Campo outlined the importance of affordability of AT for developing countries.
- Ima Placencia-Porrero mentioned that research does often not lead to products/market entrance. Often products do not relate to the R&D activities the product originates from. Industry tends to hide the support of R&D activities in the AT field. Due to this the impact of R&D is not visible what, at the other end, weakens the R&D activities and support.
- Jeff Juttai underlined that there is a strong need to relate AT to social sciences to proof the evidence of R&D in AT for policy and decision makers. There is a need for proven data on the impact of AT and Design for All in the “language” policy and decision makers understand which comes from social sciences. Only based on such outcome measurements which prove the impact for quality of life will lead to an according translation into policy. The better the AT field is able to collect data and to provide evidence, the better their recommendations will be understood and implemented. Medicine is a good example how evidence based research leads to policy and strengthens R&D.
- Harry Knops underlined the need for evidence based research. The AT field is still too much driven by ideas and concepts which do not make evident that their impact on practice. This leads to problems as those discussed like reinventing the wheel, no take up of R&D results, etc.
- Jeff Juttai outlined the lack of economical analysis for the application of AT. We are not able to provide data what the economical impact of AT R&D and

application is. But this is the basis for policy, for establishing R&D programmes as well as industry involvement and take up

- Harry Knops presented the idea of “my services for all”, services, which are driven companies asking for AT and D4All which should lead to new ways of innovation
- Jeff Juttai emphasised the need for a taxonomy in outcome research in the AT field which should lead to tools for outcome measurement and the translation of results into other domains (clinical, policy, economy)
- Klaus Miesenberger presented the idea of “History in AT” to raise the awareness towards existing know-how in the field and to avoid reinventing the wheel – this happens when the history is not taken into account. “No history – no future”.

## Education and Career Opportunities

- Päivi Tahkokallu presented some ideas on a PHD and students exchange programme (see presentations) which could act as an enabler or door opener towards more educational possibilities. This should start with a collection of exchange opportunities and support towards this.
- Päivi Tahkokallu underlined the need for ongoing professionalisation of researchers in fields like AT and Design for All. Later in the meeting she presented as an input ideas how this professionalisation could be supported by establishing better exchange and co-operation.
- Mary Ann Cummins-Prager outlined that accessibility of math, science and music in the support of students with disabilities is an area of growing importance in inclusive education. Teachers recommend other courses as they see these as too complex for students with disabilities. This leads to important consequences for their career and employment opportunities which are in almost any case dependant on according math and science skills. Employment is still the biggest issue for people with disabilities and selecting courses of higher importance for employment – and this includes science and math – could support an improvement in this field.
- Ima Placencia-Porrero emphasized the ongoing need for professionalisation of AT R&D. A lot of projects and research in general in the field is reinventing the wheel. Also AT as a field does not have according career models, education possibilities and support tools for professional work (e.g. state of the art analysis)
- Harry Knops proposed a European Institute on Research in the AT which is attractive and enables the field to keep the best. This could lead to according educational and career opportunities.
- Klaus Miesenberger emphasised the need of co-operation with practice to orient educational problems towards according career opportunities
- Ima Placencia-Porrero also outlined that there is a need for an educational network including practitioners, researchers, policy makers – CSUN is a good example which could lead to such a network.

## 4 Event Evaluation Form

**AAATE: DL14. ICM 05b. CSUN March 2007**



Deliverable

**Dissemination Planning and Actions**

