Draft Agenda

Day 1: June 19, 2001

9h00-9h45 Opening session

Welcome by Tamás Roska (SZTAKI), Chairman
• Simon Bensasson (FET head of Unit)
• Rick Adrion (EIA division, NSF)
• Remi Ronchaud (ERCIM, EU/NSF co-ordinator)

9h45-12h15 Session A - Sensing, interfaces, and sensors
Chair: R. Norman, Reporter: S. Picaud
Presenters: Bessant, Engel, Grattarola, Picaud, Van Hulle,

• Bioelectronic, biomechanical and biochemical sensing, as well as brain imaging
• Electronic, mechanical, thermal, chemical and other interfaces to living tissues
• Content and context dependent sensing and sensors, Plasticity

12h15-12h45 Session Conclusion Discussion

Lunch

14h00-17h00 Session B - Human-machine interaction with autonomous sensors - prostheses
Chair: R. Eckmiller, Reporter: R. Tetzlaff
Presenters: Kipke, Lehnertz, Rousche, Tetzlaff, Dörfner

• Vision, hearing, tactile and other prostheses
• Implanted alarm devices and acting mechanisms
• Human interactive command without keyboard
• Human aspects

17h00-17h30  Session conclusion discussion

17h30-18h00  Day 1 Conclusion discussion

Day 2: June 20, 2001

9h00-12h00  Session C - Bio Systems
Chair: J. Hámori, Reporter: Moschovakis
Presenters: Moschovakis, Fortuna, Gál, Dittmar, Roska

• Motor Control
• Sensor-motor integration
• Integrated sensing-processing-acting and learning devices and technologies
• Ethical issues

12h00-12h30  Session conclusion discussion

Lunch

14h00-17h00  Session D - Bionic devices
Chair: F. Werblin, Reporter: J. Xu
Presenters: Francescini, Indiveri, Rodríguez-Vázquez, Toumazou, Xu, Scribner

• Representation of real-world stimuli in biological systems
• Complex systems – Bio-inspired/ neuromorphic, spatial-temporal computing models with possible programmability
• VLSI implementations and Bionic Eye, Ear, Nose, Skin and other bionic devices

17h00-17h30  Session conclusion discussion

17h30-18h00  Day 2 Conclusion discussion

19h30  Social Diner, courtesy of ERCIM: “Le foyer”, 29, rue de la science –1040 Brussels
tel: 296 35 56

Day 3: June 21, 2001

9h00-12h00  Session E - Assessment of Near Future Directions
Chair: T. Roska and F. Werblin
The main conclusions of Sessions A-D will be assessed and discussed to provide the final results of the workshop (final report), which are meant to serve as a basis for future programs and collaboration between the EU and the NSF. These results will also be circulated in the scientific community for discussion and comments.

12h00-13h00 Round Table (T. Roska Chairman)
- Simon Bensasson (European Commission)
- Rick Adrion (National Science foundation)
- Jean-Eric Pin (ERCIM)
- Pekka Karp (European Commission)

13h00 End of the Workshop