

Dagstuhl Perspectives Workshop 09142
Preventing the Brainware Crises
Preliminary Program (10.03.2009)

The three-day workshop consists of short presentations from experts introducing the topics, discussions, and breakout groups.

Wednesday, 01.04.2009

Status quo and discussion in form of talks including keynotes. Talks are presented by people from different groups and topics:

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| 9:00-10:00 | Welcome Everyone introduces herself or himself in a few sentences |
| 10:00-10:45 | Keynote by David Blades, University of Victoria: The Case for a Curriculum of Technology Studies |
| Coffee break | |
| 11:00-11:30 | Ingo Dahm (Microsoft Germany): What does industry expect from computer science students? Do they foresee a lack of computer scientists and are there any countermeasures? |
| 11:30-12:00 | Sophie Ehre and Achim Wagner (Job market) How is the current situation on the job market and how will it most likely develop in the near future? Is there a pork cycle with respect to IT jobs and particular for computer scientists? |
| Lunch | |
| 14:00-14:30 | Gordon Bolduan (Heise Verlag): How are computer science topics covered in the media compared to other sciences? |
| 14:30-15:00 | Torsten Brinda (Universität Erlangen): Results of various student recruitment initiatives of German universities |
| Coffee break | |
| 16:00-16:30 | |
| 16:30-17:00 | Uwe Geisler (family.de): Hardware matters - and some more comments on public perception of computer (science), communication strategy and didactics |
| 17:00-18:00 | Discussion and Working Group Planning |

Thursday, 02.04.2009

In the morning, *breakout groups* discuss the topics mentioned below. It is expected that each group develops suggestions on how to change the situation, and furthermore, suggests action items telling how to realize these suggestions.

Image/Public perception:

- How can we educate parents, teachers, counsellors and the public about computer scientists and their job?
- What role could the media play?
- How can industry help?

Research:

- What research questions should be addressed to influence school curricula positively?

Education System:

- What should be changed in our education systems to provide teachers the ability to integrate computer science in the curriculum?
- How can industry help to do so?

The program of the **afternoon** depends on the results of the breakout groups and will be established together with the workshop participants.

The workshop is supported by PH Bern. Therefore, Dagstuhl will arrange a **gala dinner in the evening**.

Friday, 03.04.2009

Networking is particularly important for acting fast and internationally at the same time.

- How can we effectively set up and use networking to share activities, strategies, results, resources on improving our education systems?
- How to address the enrolment problem in computer science?

The workshop finishes Friday afternoon after the coffee break at 4 pm.