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## eCollaboration Trends 2013

*"You can lead a horse to water, but you can't make him drink,"*

**Marco Bettoni**  
10th Meeting SIG eCollaboration  
14. March 2013  
Online - <https://collab.switch.ch/sigecoll/>




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### Cooperation vs. Collaboration

6th meeting / 11.2011

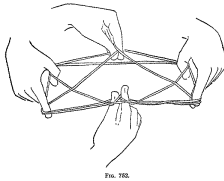
### Cooperation

- Work together
- Task is divided
  
- Hierarchically
- Independent subtasks




### Collaboration

- Work together
- Task is divided
  
- Heterarchically
- Coordinated subtasks



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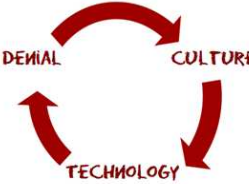


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## CSCL & CSCW in the business world

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- **30.1.13 «SABA New World of Work»**
  - Content increasingly social
  - Power of “People Networks”
  - Demand for “Leaders Everywhere”
  - Embed social and collaboration capabilities into existing business processes
- **13.2.13 «Collaboration is not working» (D. Lavoy)**
  - **Fundamental paradigm shift**
  - about retreating from command & control practices
  - to one that activates the full capabilities of the participants and networks
- **22.2.13 “Yahoo bans Telework”**
  - CEO Marissa Mayer requires employees to relocate to company facilities



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## Collaboration (C) and Social Software (SS) Planned Research by Gartner 2013

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- ROI and business case framework for CSS initiatives
- A template for a C initiative strategy
- Advice on how to measure the effectiveness of C investments
- Knowledge management fundamentals in the age of social networks
- Effective mobile collaboration strategy
- Guidance on how to obtain results from social analytics applications



[http://my.gartner.com/portal/server.pt/gateway/PTARGS\\_0\\_2057436\\_353\\_260\\_3460702\\_43/http://remoteapphost.gartner.com](http://my.gartner.com/portal/server.pt/gateway/PTARGS_0_2057436_353_260_3460702_43/http://remoteapphost.gartner.com)

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## Social Business & Collaboration

### Forrester Research 2013

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Companies have invested in collaboration tools for 15 years ...

- ... yet email is still the most commonly used tool

New social tools ...hold promise,

- yet deployments are low and adoption lower still.

Introduced new ways to collaborate and communicate ...

- only to see tepid adoption for two decades.

The trend has gotten even worse ...

- with end users self-provisioning their own tools like Dropbox.


The truth is:  
knowledge workers have a great deal of control ...

- ... over their daily activities & tools they use



<http://www.forrester.com/Enterprise-Collaboration> 5

<http://www.forrester.com/Social+Business+And+Collaboration+Success+Hinges+On+Effective+Change+Management/fulltext/-/E-RES81003>




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## Ten Basics of CSCL


### Dillenbourg & Fischer (2007)

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1. More interaction balances less individualisation
2. Media effectiveness is a myth
3. What matters: effort required to construct shared knowledge
4. A greater resemblance to f2f interactions is not better
5. Task representations mediate verbal interactions
6. Collaborative learning needs to be structured
7. Interaction analysis can be partly automated
8. Interaction is a substance
9. Computing is more than computers (“invisible computer”)
10. Some virtual communities effectively share knowledge (other die)




Pierre Dillenbourg  
<http://people.epfl.ch/>



Frank Fischer  
[www.psy.lmu.de](http://www.psy.lmu.de)

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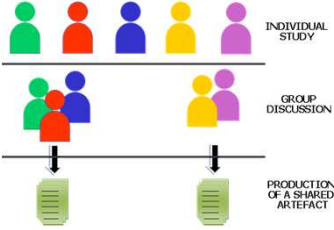


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## CSCL on Wikipedia Challenges

1. teacher attitudes about technology
2. time needed to monitor student discourse
3. sufficient complexity of task,  
otherwise team work is unnecessary
4. students may need training on how to collaborate
5. danger of over-scripting the collaboration
6. computer tools as obstacle to collaboration



INDIVIDUAL STUDY  
GROUP DISCUSSION  
PRODUCTION OF A SHARED ARTEFACT

[http://en.wikipedia.org/wiki/Computer-supported\\_collaborative\\_learning](http://en.wikipedia.org/wiki/Computer-supported_collaborative_learning)

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## Collaborative Learning Analytics Tool: MOClog

**WHAT**

- Visualise (interpret) log data based on a didactical interpretation model
- Processes and outcomes of learning and teaching

**WHY**

- Monitoring learning is essential but logfiles are seldom used for that
- Monitoring user interaction traces in terms of learning

**HOW**

- Moodle plugin whose design implements a didactical model

**WHO**

- FOR: students, teachers, study program managers, administrators
- BY: four Swiss Institutions - FFHS (lead), USI, FHNW and BFH








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## CSCL Conference 2013

- June 15-19, 2013, Univ. of Wisconsin - Madison
- Learning across Levels of Space, Time, and Scale
- Gerry Stahl: «Learning across levels», 16.2.2013  
International Journal of Computer-Supported Collaborative Learning, March 2013, Volume 8, Issue 1, pp 1-12
- challenge for CSCL:
  - that the interactions of collaborative learning be understood, supported and analyzed at multiple levels.
- The attempt to bridge across levels of analysis
  - - in CSCL theory, analysis and practice - stands at the forefront of CSCL research today.




<http://www.isls.org/cscl2013>  
<http://link.springer.com/journal/11412/8/1/page/1>

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## CRAFT at EPFL



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EPFL > Formation > Craft français English

### PEDAGOGICAL RESEARCH AND SUPPORT CRAFT

Support for teachers
Tools for teachers
CRAFT courses
Research
Practical info

 Share
  Print

**Mission**

Take action and contribute to the quality of teaching by : coaching faculty, training faculty, and setting-up in-depth evaluations of courses.

Carry out top research in learning technologies and its associated fields.

**JOB OFFER**

Currently no position available

<http://craft.epfl.ch/>

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Research at CRAFT

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### Research Thematic

We study and design collaboration technologies that lead to better learning and more efficient problem-solving.

**Modest computing:** simple technologies that are strongly rooted in existing face to face practices of learning and teaching. What happens when students raise their hand to ask a question ? How do students use and produce annotations in the books they read ?

**Classroom orchestration:** understanding factors that determine whether pedagogical interventions succeed or not. What is behind teachers' feeling that "it works well" ? How can we facilitate the transitions from practice to theory with tangible and paper interfaces ?

**Signal level computing** in collaboration technologies: using low-level signals (speech, gaze, event) and advanced modeling techniques to uncover the signature of successful and efficient collaboration.

<http://craft.epfl.ch/page-44100-en.html>


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CSCW Course  
at CRAFT / in Moodle


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- Basics in cognitive science
- Designing empirical studies
- **Group decision making**
- Augmenting face-to-face collaboration
- Qualitative data analysis methods
- **Computer-mediated communication**
- **Visualizing interactions**
- Eye tracking methods
- **Coordination & workflows**
- **Knowledge management**



<http://moodle.epfl.ch/course/view.php?id=3>

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## Manyscripts

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- a web-based environment
- teachers prepare the script.
- student login ManyScripts
- do the different activities that compose the script.
- somewhat similar to a LMS such as Moodle
- but focused on collaborative scripts.
- Collaborative Script = a pedagogical scenario that students have to follow when they learn together.
- **not** designed for **distance education** but for enhancing classroom activities.



**Manyscripts**  
A tool by EPFL

<http://manyscripts.epfl.ch/>

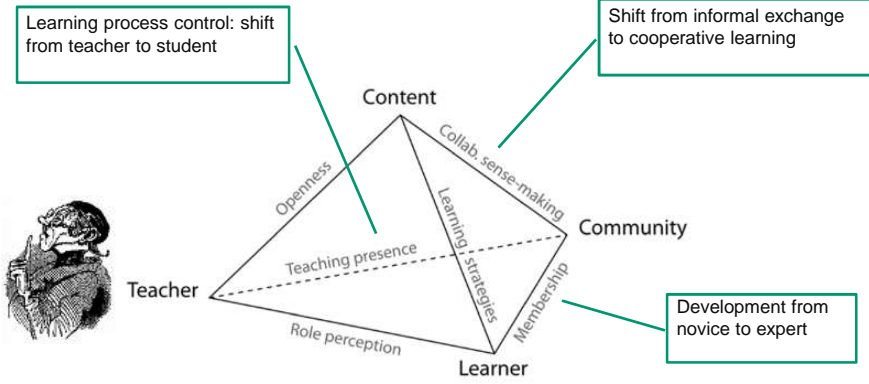
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## IFeL Tetrahedron Collaborative E-Learning

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Learning process control: shift from teacher to student

Shift from informal exchange to cooperative learning

Development from novice to expert


Online: <http://www.ifel.ch/>

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**Options for our SIG**

- Learning Analytics:  
MOCLog for collaborative learning
- Learning across levels:  
<http://www.isls.org/csc12013>
- Manuscripts tool for distance learning: <http://manuscripts.epfl.ch>
- Community edges (IFeL tetrahedron)
  - Collaborative sense-making
  - Learners as community members
  - Students' control of the learning process



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