Wisdom is not the product of schooling but the lifelong attempt to acquire it.
- Albert Einstein

Making All Voices Heard

—

New Socio-Technical Design Environments for Community-Oriented Development Projects

Gerhard Fischer
Center for LifeLong Learning & Design (L3D)
http://l3d.cs.colorado.edu/
Department of Computer Science and Institute of Cognitive Science
The Center for LifeLong Learning & Design (L³D)

- **Part of**: Department of Computer Science and Institute of Cognitive Science

- **Members**:
  - faculty members, post-doctoral fellows, visiting research fellows, Ph.D. and Master students, Undergraduates → horizontal and vertical integration
  - a center with no walls → membership criteria are intentionally vague
  - the glue holding L3D together: shared research vision, weekly L3D meetings, …. 

- **Collaborations with**:
  - **CU**: Institute of Cognitive Science (ICS), Alliance for Technology, Learning, and Society (ATLAS), Coleman Institute, ………
  - **Other Universities**: ……………
  - **Outreach**: City of Boulder, RTD, Campus Planning, Boulder Valley School District, Imagine!
  - **Industry**: …………………

Gerhard Fischer

L3D Overview
\( \text{L}^3\text{D’s Research Focus and Intellectual Identity} \)

- **Artificial Intelligence (AI)** → **Intelligence Augmentation (IA)**
  - replacement → empowerment

- **instructionist learning** → **constructionist learning**
  - when the answer is known → when the answer is not known

- **individual** → **social (distributed intelligence)**
  - access (GoogleEarth) → informed participation (EDC)

- **generic** → **specific (“universe of one”)**
  - design → meta-design
  - general → customization, personalization

- **“gift-wrapping” and “techno-determinism”** → **co-evolution** (new media; new theories about working, learning, and collaborating; and new learning organizations)
Goals of the Meeting, August 3

- collaborative design by **making all voices heard** $\rightarrow$ Envisionment and Discovery Collaboratory
  - support for planning and decision making
  - focused on: social presence, sense of community, immersion
  - demonstration of a planning session

- **human-centered public transportation systems** of the future
  - information and communication technologies to take full advantage of complex transportation systems
The Envisionment and Discovery Collaboratory
CLever — a Current Major Research Project

- supported by the Coleman Institute, August 2000 – July 2006

- [http://l3d.cs.colorado.edu/clever/index.html](http://l3d.cs.colorado.edu/clever/index.html)
Our Objectives

- doing **basic** research on **real** problems

- the future is not out there to be discovered (like Columbus discovered America) \(\rightarrow\) it has to be **invented and designed**

- creating, supporting, and evolving a community (including all stakeholders: City of Boulder, CU, RTD, Fastrack, architectural firms, ……) to engage in a **specific design task** \(\rightarrow\) **development of Williams Village**

- create **“win-win” situations** for all stakeholders

- to set a **model** for solving complex collaborative design task for the nation and the world

- **“This is not the end. It is not even the beginning of the end. But it is, perhaps, the end of the beginning.”**—Winston Churchill