SIGLES021116

#### ICLS2002報告

"Keeping Learning Complex" 会期 2002年10月22日~26日 Seattle, WA. U.S.A.

## 学会が立上がりました

- The International Society of the Learning Sciences
- ICLS と CSCL の合同アンプレラ

   CSCL2003 は6月に / ルウェイです。
   現在発表申請受付中

### 8月31日、一回目に

- '02夏...
- Inquiry
- Science skills learning
- Sustainable community

当たり?だったのは...

#### Sustainable community (8・31のスライド)

- 学習者の学習を長期に亙って支援する

   いくつもの授業を xxxx で.
   学年を越えて inquiry の質を上げる (Super curriculum)
- 教師に,学習者と同じ経験をさせて取り込む

#### 同行者(白水)による3つのトレンド

- ・学習過程の理解のために
   学習過程を実際のインタラクションの中で細か 〈見ていく(micro-genesis)
  - 学習過程(特に学習者)を社会的,文化的関係に埋め込まれたものと見ていく(interplay...)
- 学習過程を感情もともなうイベントだと見ていく (affective...)

#### 学習過程(特に学習者)を社会的, 文化的関係に埋め込まれたものと 見ていく(interplay...)

- Keynote "Keeping learning alive" Jay Lemke
- Special session "The interplay of culture, cognition, and identity in classrooms"
- Closing remarks by Carol Lee, Yasmin Kafai

#### 学習過程を感情もともなうイベント だと見ていく (affective...)

- Jay Lemke: "Keeping learning alive" – Long-term planning
  - Lifelong assessments
  - Involving target people (15-17 year olds) into planning for creation of visions for the future

ICLS2002 Seattle, Washington 2002/10/25

Special Session 8.4

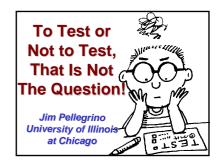
#### Assessment of complex learning

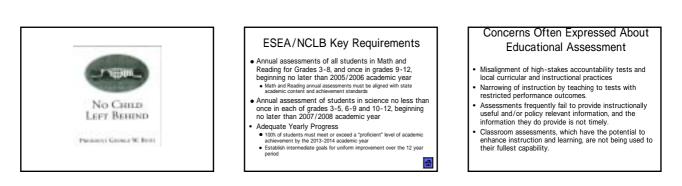
Organized by Naomi Miyake, Chukyo University James Pellegrino, U. of Illinois Chicago Assessment of complex learning:

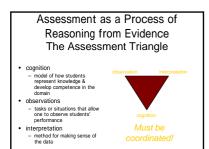
Towards a better integration of cognitive models, empirical observations, and substantive interpretation Dr. James W. Pellegrino

2001

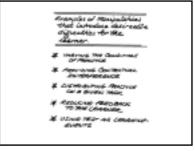








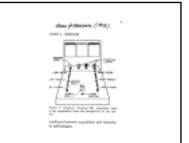


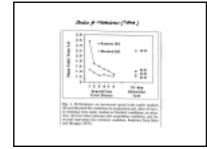


# モデルとメタ認知との食い違い

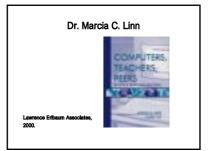
- 保持という観点からは効果の上がらない 方略で学んでいる時,人は「学んでいる」と 感じる
- こういう、モデルのもたらす「効用」を問題 にすべき

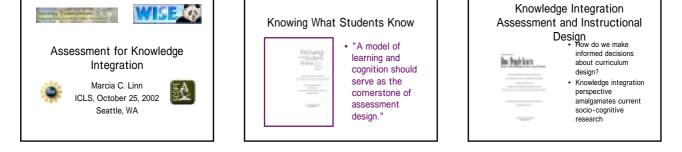












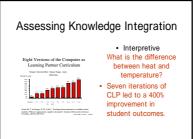
Knowledge Integration Perspective

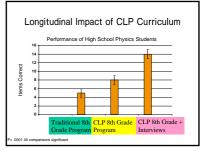
 Interpretive Learners make sense of new information based on past experiences and courses



experiences and courses Cultural Learners infer norm, standards, & epistemologies from media, peers, role models, activity structures, and grading rubrics

Deliberate Learners personally guide their learning, select courses and careers, and choose to revisit ideas



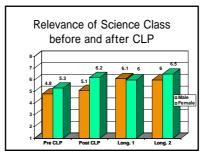


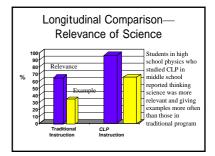
#### Assessing Knowledge Integration

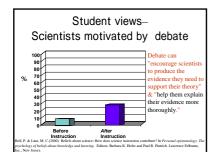


Cultural Relevance of Material Learned in Science— CLP curriculum emphasizes practical problems Nature of science—

Controversy projects improve understanding of role of debate in science

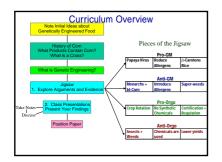










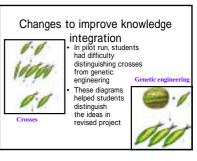


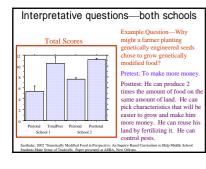
# Changes to improve knowledge integration

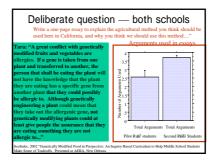


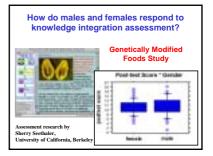
#### In pilot run students thought people could easily avoid genetically modified corn.

- Revisions included evidence and a note about people with corn allergies.
   Most students using the revised project explained that
  - revised project explained that avoiding corn is difficult.



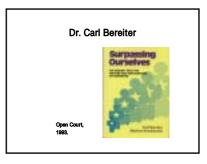








# Why do we need better assessments? "Schools caught in rash of cheating on tests Teachers say theyre pressured to more good results on exame Lack of training, materials steter Dato of results on exame Lack of training, materials steter Detroit News "Oakland school superintendent deplores possible cheating on state aptitude tests OAKLAND - The head of the Oakland Unified School District says it is too soon to tell whether ratise aptitude tests were altered in three district classroom, but if so he would not spare the root Bay Insider





#### Levels of Explanatory Inquiry thus Class R Let, 2003

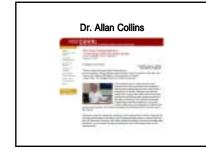
Land L. Questions roking about the definitions of terms-

Level 2. Hactail, topical, and prevail quantizes. Statements taxand into quantizes by adding "why" or "hore."

Level 3. Questions with conjectures.

Level 4. Explanation based quartient. Questions centred on problems that arise from an effort to produce explanations.

# Naomi Miyake & Hajime Shirouzu



#### Jim Greeno @ closing remarks

- 学習過程の理解が必要

   Pasteurのmicrobesのメカニズム同定のように
   躓きについてのconstrained hypothesis
- 理解/理論のコアを使って学生をhealthy discourse practiceに導く
   下水をどう処理するか実践者 (public health)が Pasteurの説明を利用できたように

完全治癒に向かうようなsocial movement

#### Carl Bereiter @ closing remarks

- 学習研究がここまでの成果を出せる、というポジティブデータを出すこと(vision, deep solution, dazzling results)が大事
  - 考えたこともないようなデータ
  - これができないからこう対策する、というモグ ラ叩き方式ではなく
- Social movementを正しい方向へ
   正しい方向の同定に???

