

Book of Problems or what we don't know about learning

a follow-up

Learning Development Institute (LDI) WWW.LEARNDEV.ORG

jvisser@learndev.org

24 Oct 2003 BOP FOLLOW-UP – AECT 2003

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Overview of Major Events

Since February 2000

Click the items below for your direct link to the following events (listed in reverse chronological order):

2003

- <u>Innovación Educativa apoyada en Tecnologías</u> (Universidad Autónoma San Luis Potosí, México, 15-21 de octubre de 2003)
- Special Session and Workshop on the Book of Problems (BOP) at AECT 2003 in Anaheim, CA, October 2003
- <u>Critical reflection on learning and development in the light of learning stories from Mozambique</u> (AECT, Anaheim, CA, October 2003)
- Ambiguity, cognition, learning, teaching, and design (AECT, Anaheim, CA, October 2003)
- <u>Criação de capacidade para o desenvolvimento do ensino a distância em Moçambique</u> (Agosto de 2003 até Junho de 2004)
- <u>3e Rencontres Internationales Science et Conscience Transdisciplinarité, un chemin vers la paix?</u> (Strasbourg, France, mai 2003)
- Meaningful learning in the Democratic Republic Congo (Since January 2003)

2002

- <u>De l'idée d'apprendre sans frontières à la notion du développement de l'apprentissage</u> (Montréal, Québec, Canada, 6 décembre 2002)
- The Book of Problems (or what we don't know about learning) (AECT 2002).
- Mind over Competency (AECT, Dallas, TX, November 2002)
- Critical Thinking and Discourse in Distance Education and Traditional Education (AECT, Dallas, TX, November 2002)
- Construvendo la Universidad de Sabiduría para el Sidlo XXI (Guadalaiara, adosto 2002).

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BOOK OF PROBLEMS

Presidential Workshops and Interactive Discussion Sessions at the International Conferences of the

Association for Educational Communications and Technology Dallas, Texas, November 12-16, 2002, and Anaheim, California, October 22-25, 2003

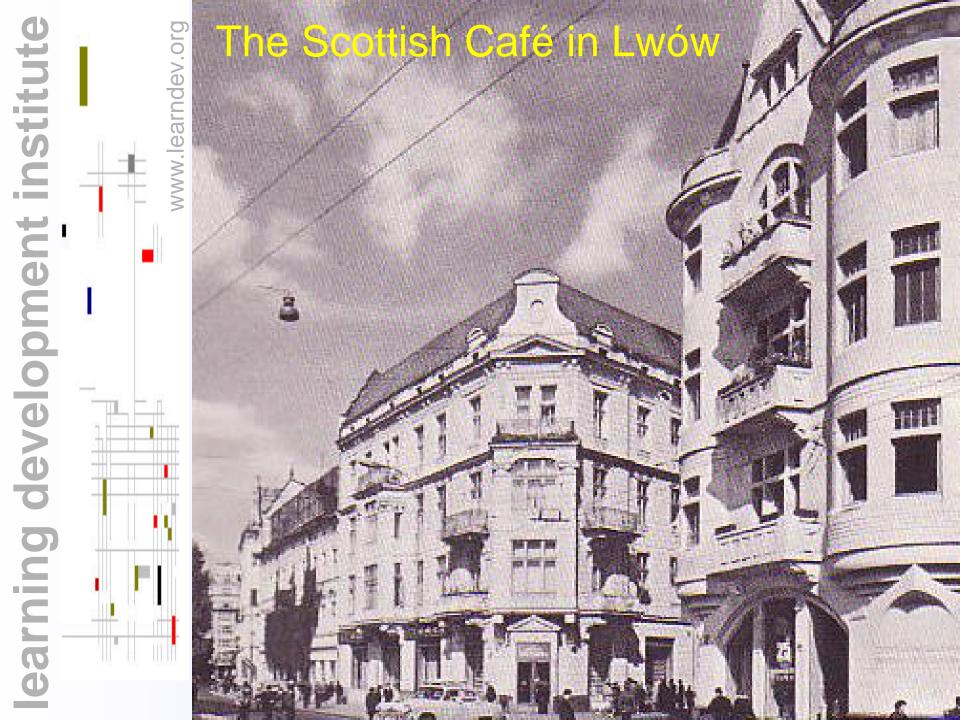
- Introduction
- Workshop and Interactive Session at the AECT 2002 International Conference
- The "Book of Problems" community of scholars
- Inputs into a collaborative dialogue
- A short report on the 2002 meeting in Dallas, TX.
- Special Panel Session and Workshop at AECT 2003 (Anaheim, CA)

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INTRODUCTION

In re mathematica ars proponendi quaestionem pluris facienda est quam solvendi.

The above motto, on the front page of Georg Cantor's thesis, is cited in Stanislav Ulam's (1991) autobiography "Adventures of a Mathematician." Cantor's affirmation that "in mathematics the art of asking questions is more commonly applied than that of solving problems" is more than a statement of fact. For someone who, like Cantor, the creator of Set Theory and discoverer





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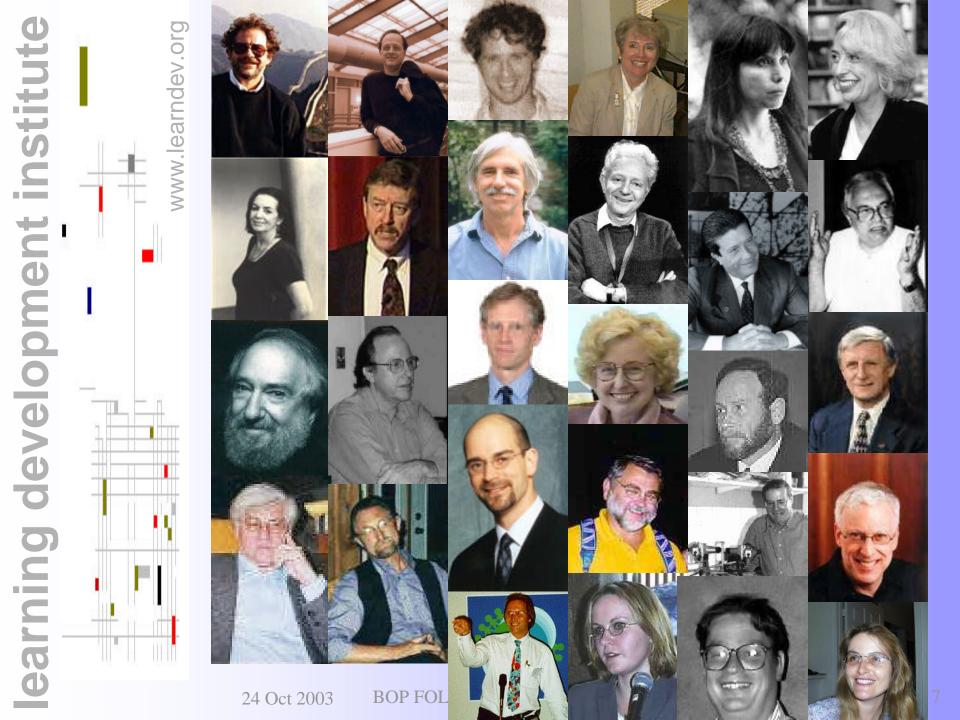
In re mathematica ars proponendi quaestionem pluris facienda est quam solvendi. (Georg Cantor)

"in mathematics the art of asking questions is more commonly applied than that of solving problems,"

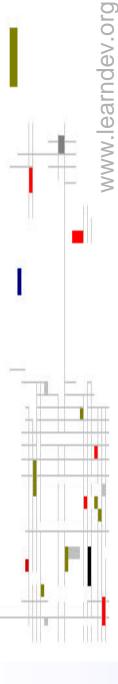
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why should those who advance our knowledge about human learning not similarly get excited about our unsolved problems, rather than about the trade of producing more and more answers that often largely confirm what we seem to know intuitively anyway.



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Last year's Presidential Session

See report in TechTrends Volume 47, Number 1, pages 5-8 [Online version: http://www.learndev.org/dl/TalkingAboutTheUnknown.pdf]

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	8 Any scientist who wants to make important discoveries	s must study
UNESCO linkage	Any scientist who wants to make important discoveries important problems. Dull or piffling problems yield di answers The problem must be such that it <i>matters</i> what th	ull or piffling ne answer is.
	Peter B. Medawar, 1	1979 (p. 13)
	From Lwów to Dallas excerpt of the book can be found at handle on the issue of http://www.icm.edu.pl/home/delta/de particularly in so far as w	
	Consciousness about what we don't lta2/dlt0209.html.) create in a deliberate	fashion the
	know is a major condition for the So far about mathematics, conditions necessary for advancement of any science. Thus, in though. The remainder of this article through instruction an	
	the first half of the 20th century, is not about mathematics but about specifically formulated	
	Polish mathematicians, who used to the science of learning and about an outcomes. However, gather in the cafés and tearooms of initiative of the Learning conclusion is merely co	
	places like Lwów to discuss the Development Institute (LDI) called extent that one defines les	earning as the
	defining questions of their field, the Book of Problems (or what we consequence of instruction developed a handwritten book in don't know about learning). This as one is willing to look	
	which they inscribed – and initiative – called the BOP initiative as something more broa	adly defined



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Decontextualized snapshots

- How would our understanding of learning be transformed if its purpose were joint discovery and shared knowledge rather than competition and achievement?
- What makes <u>socialization and acculturation</u> so effective and how could their "active ingredients" be incorporated into instruction?
 - Can we know too much? And how can we possibly construct a dossier of misconceptions, of "natural" assumptions that must be viewed with suspicion. How can one develop the ability to recognize and delete the irrelevant knowledge which blocks creativity?



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Further decontextualized snapshots

- What is there in our genetic instructions that itself leads us to be able to <u>overcome</u> those same <u>genetic</u> <u>instructions</u> and routinely invent radically new forms of behavior and interaction?
- Can we imagine that, in the future, learning through initiatives <u>outside formal institutional settings</u> will be more important than inside them? How can one help the development of such an evolution of learning?
- What is the practical role of the <u>included middle</u> (paradox, oxymoron, etc.) in the process of learning? How could this build transcultural and transreligious attitudes?



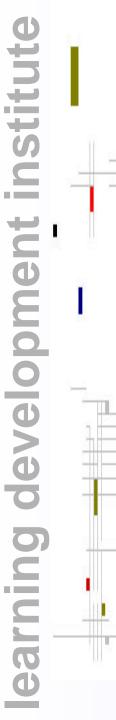
Results so far:

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- Some 25 statements by contributors (see BOP page at learndev.org)
 Book project
 - Question: What kind of book? \rightarrow Develop collective generative conceptual framework \rightarrow contributions \rightarrow iterative further development of both the framework and the contributions \rightarrow conclusions.
 - Audiences.
 - Purposes.
 - Format.

Continued collective thinking process, hopefully also affecting those that not formally pertain to the BOP community.



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Prompts to discussion

Does learning matter? Why and in what ways?

- Through learning we have affected the planet in such ways that it now requires that learning be redefined at the next higher level to help us live with our own ingenuity.
- What do we do about the rigidity of belief systems?
- What does it mean to be human in a world in which humans become an evermore integrated part of their technological extensions?
- Learning is intimately associated with growth and change. However, the establishment that claims to promote and facilitate it is among the most conservative and resistant to change ever created by human beings. How can the contradiction be solved? (Organizational clock speed.)

