

UNIVERSITY OF  
**Nebraska**  
Omaha



*The* PETER KIEWIT  
INSTITUTE



The PETER KIEWIT  
INSTITUTE

UNIVERSITY OF  
**Nebraska**  
Omaha

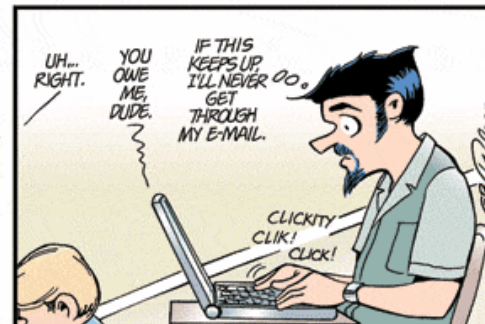
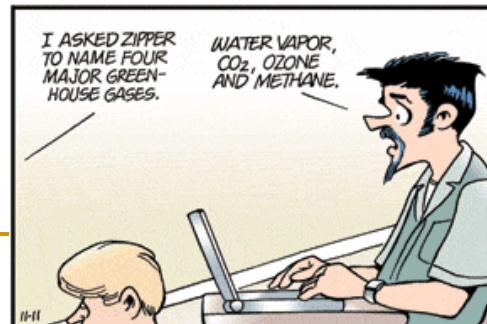
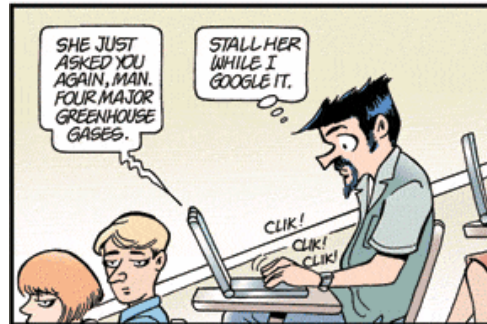
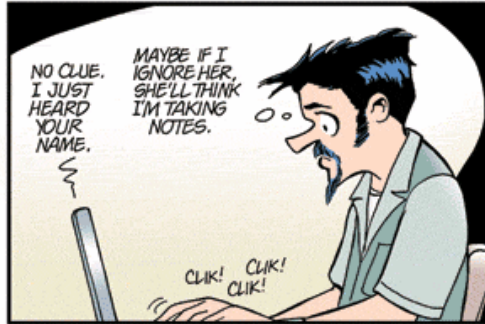
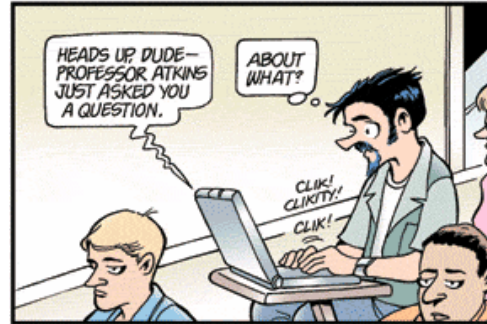
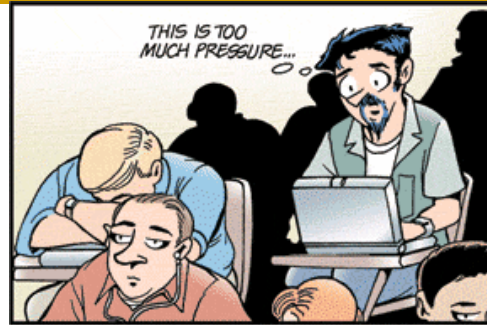
---

# USING PERFORMANCE-BASED PROJECTS IN TEACHING: A 'HANDS- ON' VIEW OF LEARNING

---

Deepak Khazanchi, Ph.D.  
Professor of Information Systems & Quantitative  
Analysis and Associate Dean for Academic Affairs  
College of Information Science and Technology  
The Peter Kiewit Institute  
University of Nebraska at Omaha

**Big XII+ Symposium**  
Lubbock, Texas  
Sunday April 6, 2008



UNIVERSAL PRESS SYNDICATE © 2007 G.B. TRUHLER

www.dorland.com



# Learning by Doing

***Learning is finding out, what you already know;  
Doing is demonstrating that you know it.  
Teaching is reminding others; that they know  
just as much as you.***



# Defining Performance Based Learning

- *Performance Based Learning is an approach to education where the **learner is immersed** doing tasks or performances and receives **systematic feedback on proficiency** (Hibbard et. al., 1996).*
- **PBL** asks two key questions of the designer: (*Wisconsin Instructional Design System, 1997*)
  - **What will the students be able to do?**
  - **How will you know they can do it?**



# Performing Based Learning in IT Education

- In my view, there are three foundations for achieving true performance-based learning:
  - Theory & concepts
  - "Case" or task-based problem solving
  - "Real-world" problem solving

*There are one-story intellects, two-story intellects, and three-story intellects with skylights. All fact collectors who have no aim beyond their facts are one-storymen. Two-story men compare, reason, generalize, using the labor of fact collectors as their own. Three-story men idealize, imagine, predict--their best illumination comes from above the skylight.*

**--Oliver Wendell Holmes**



## Three Examples

- Managing in a Digital World – teaching management through a IT lens
- Experiential PhD Research Seminar on Virtual Project Management
- “Experiences with IT” – new freshman course to introduce (and recruit) students to IT disciplines and the IT profession



# Learning by Doing

- ❑ *“I hear and I forget; I see and I remember; I do and I understand.”* [A Chinese adage].
- ❑ *We only know insofar as we do.* [Novalis].
- ❑ *The doer alone learneth.* [Friedrich Nietzsche].
- ❑ *I hear and I forget; I see and I remember; I do and I understand.* [A noted Chinese philosopher].
- ❑ *What we have to learn to do, we learn by doing.* [Aristotle].
- ❑ *Learning is finding out, what you already know.  
Doing is demonstrating that you know it.*
- ❑ *Teaching is reminding others  
that they know just as much as you.*







*The* PETER KIEWIT  
INSTITUTE

UNIVERSITY OF  
**Nebraska**  
Omaha

---

Questions? Discussion?

---

## References

- Hibbard, K.M. (1996). Performance-based learning and assessment. A teacher's guide. Alexandria, VA: Association for Supervision and Curriculum Development.
- Hutchings, Pat and Allen Wutzdorff (eds.) (1988). *Knowing and Doing: Learning through Experience*. San Francisco, Jossey-Bass.
- Dewey, J. (1916) *Democracy and Education. An introduction to the philosophy of education* (1966 edn.), New York: Free Press.

