

## PFPF 2/9

Preparing for the micro-teach and  
ideas behind educational practice:

The good the bad and the ugly

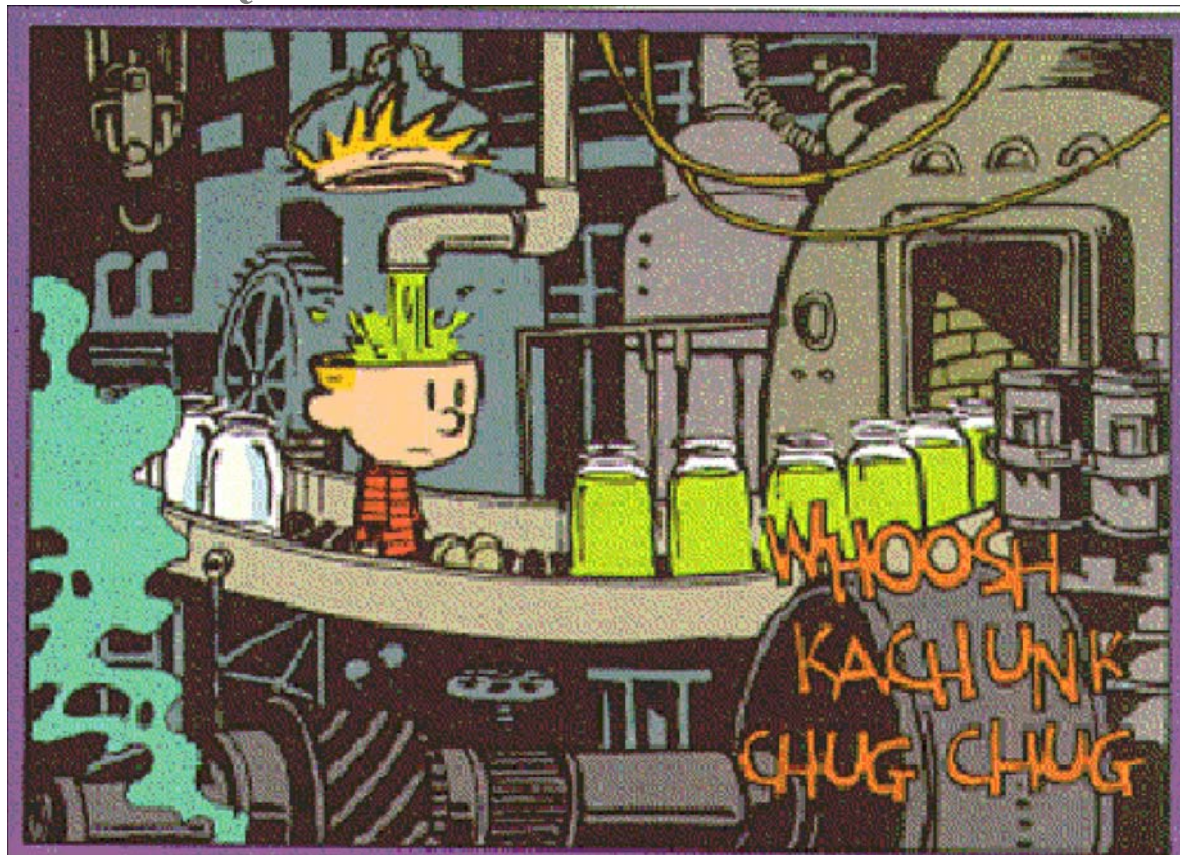
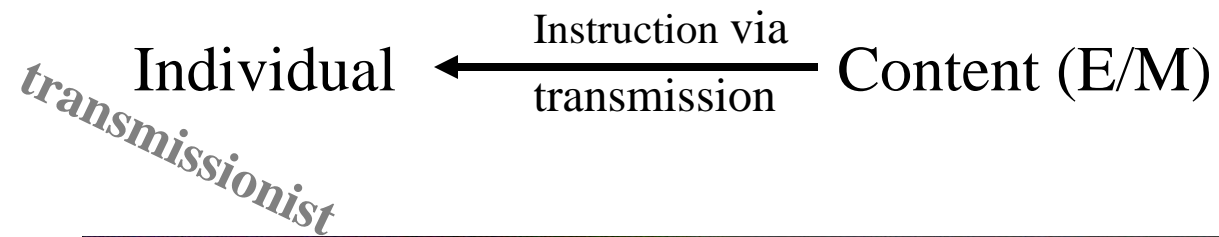
Steve Pollock,

Chris Keller,

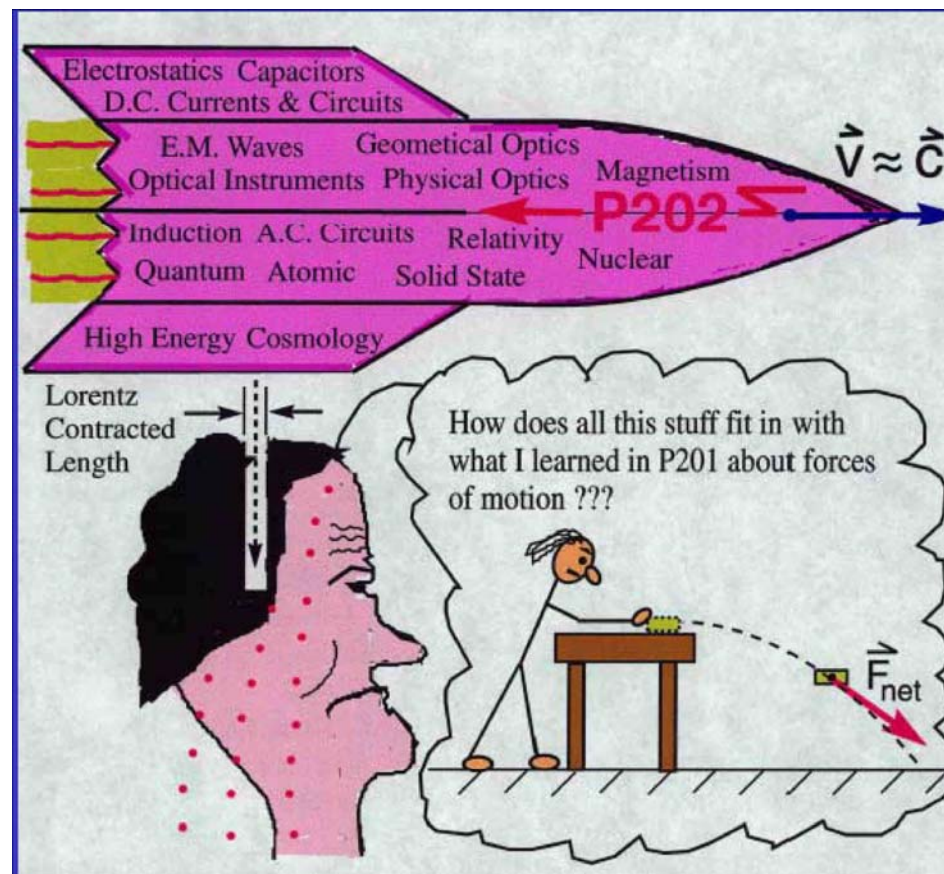
Noah Finkelstein

(not in that order)

# Trad'l Approach

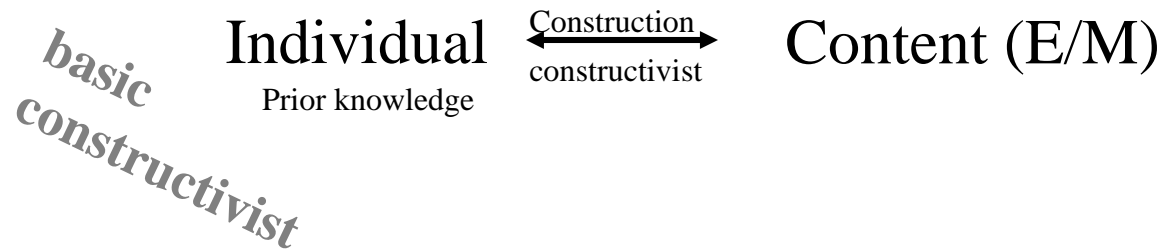
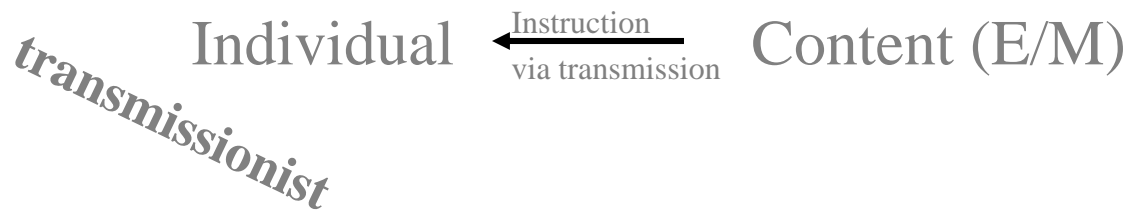


# Relativistic Model - A. Aarons



"The relativistic model is based on the premise that, if one starts with an E- N- O- R- M- O- U- S breadth of subject matter but passes it by the student at sufficiently high velocity, the Lorentz contraction will shorten it to the point at which it drops into the *hole* which is the student mind."

# PER Theoretic Background



J. Piaget - Swiss psychologist (1896-1980)

Students: are active in the educational process

construct understanding based on prior knowledge

learn through individual development

Please evaluate each speaker on

Clarity of presentation

Clarity of speech

Use of materials / board

Mastery of content

Level of engagement

Utility for learning (u-grad level)

Overall evaluation / comments

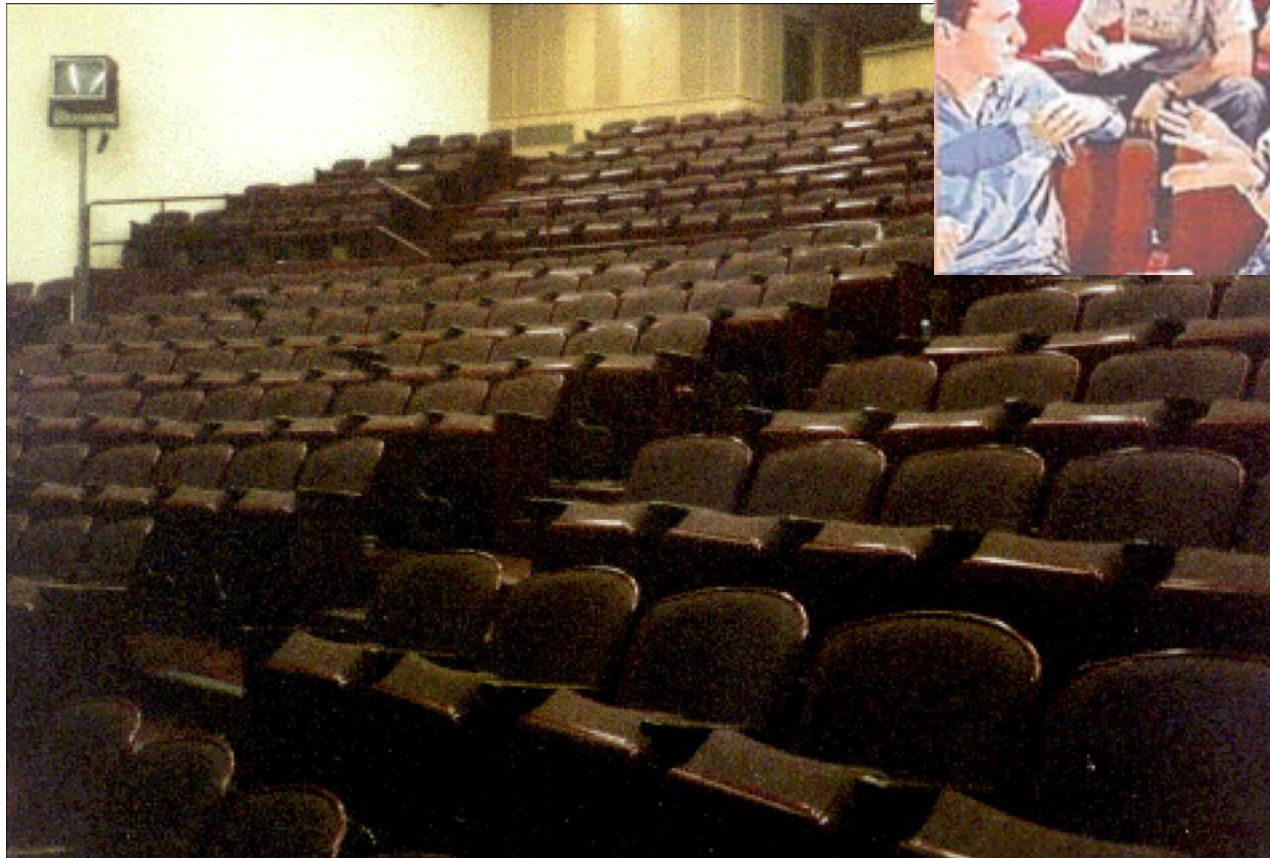
# Typical Classroom- today



# Earliest Known Example of a Schoolroom from Sumer, circa 3000 BC



# Concept Test Classroom



# MIT Studio Physics- John W. Belcher\*



Active classes make active students (on task)

\* <http://www-caes.mit.edu/research/teal/index.html>