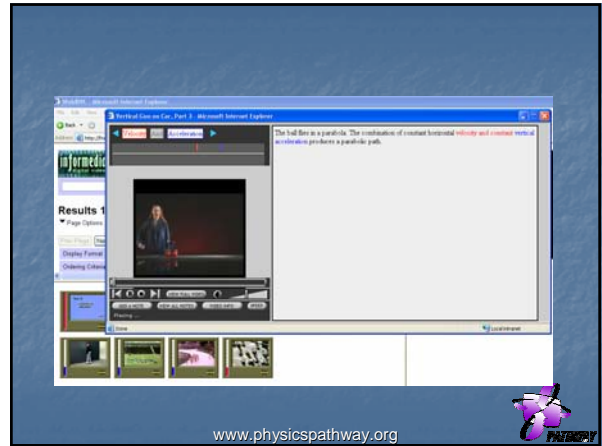


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## Right now

- Over 100 clips
- 20 from the Video Encyclopedia of Physics Demonstrations
- Not downloadable

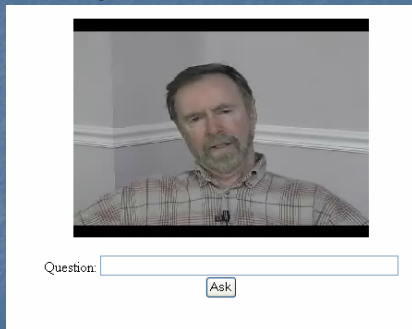
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## Soon\*

- Add Paul Hewitt Workshops
  - 8 lessons on teaching conceptually
  - 1 lesson on cartooning
- Add contributed videos
- Perhaps add some SI videos

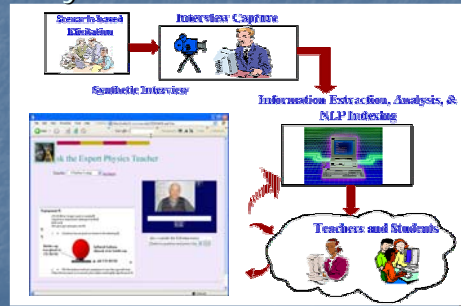
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## A Synthetic Interview



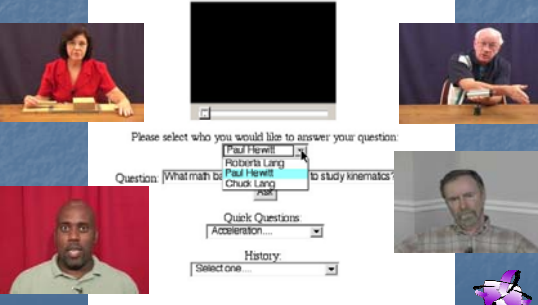
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## Synthetic Interview Creation



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## We Offer Multiple Personalities



Please select who you would like to answer your question.

Question: What math do I need to study kinematics?

Quick Questions  
Acceleration...

History  
Select one...

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## History and Recent Update

- Started with  $75+37=112$  questions
- Added ~10 “global” questions
- Added 80 “basic” questions
- Added 122 “tool” questions
- Added 734 kinematics questions
- So ~946 new questions, but 20 overlap
- Now we have about 1,050 questions!

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## Going Past 112 Questions

- Identified topics
  - 23 chapters (+/-)
  - 247 concepts (+/-)
  - 14 tools (+/-)
- Prepared and grouped questions into templates
  - 33 chapter-level groups
  - 33 concept-level groups
  - 19 tool-type groups
- Plus some “global” and special questions

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## Why Templates?

- Matching / identifying questions
- Systematic numbering
- Coverage
- Creating variations
- Estimating quantity (over 9,000)
- Getting ahead of demand

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## Who is asking questions?

- Pre- and In-service teachers
- Meeting attendees
- Workshop participants
- Others
  - Project staff
  - Testers
  - Random people?

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## What are they asking? $n=2498$ questions

- 70% pedagogical
- 12% content
- 8.0% single word or concept
- 6.3% miscellaneous
- 2.0% demonstrations
- 1.4% activities
- 0.2% assessment

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## Features to add

- PER references
- Associated media
- Science Standards



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## Still to do!!!!

- Expand
  - More Content
  - More Features
- Does it work?
- How's the coverage?
- Evaluation – is it useful?
- Address size (speed) issue, and Hewitt

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## We would like your help

- Suggest questions to ask the experienced teachers
- Try the system
  - [www.physicspathway.org](http://www.physicspathway.org)
- Give us feedback

[www.physicspathway.org](http://www.physicspathway.org)



## Questions or Comments?

- Brian Adrian
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- [www.physicspathway.org](http://www.physicspathway.org)

**THANK YOU!**

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