Disseminating Curriculum and Pedagogy: Peer Instruction



ee STRUCTION ERIC MAZUR **2009 AAPT Winter Meeting** Chicago, IL, 14 February 2009

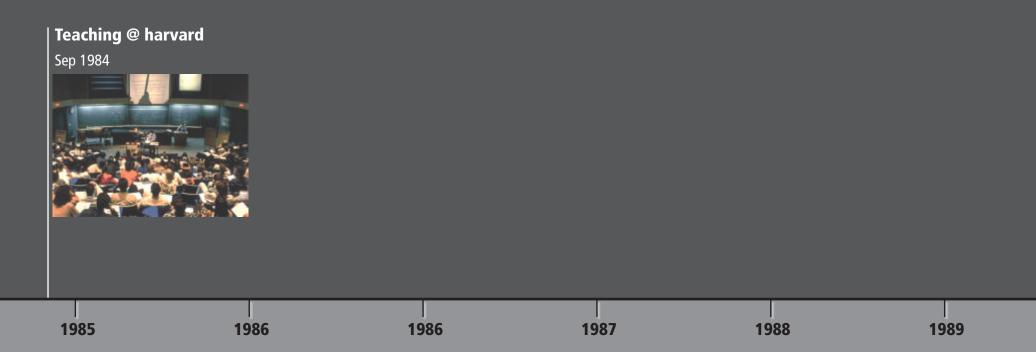
What strategy?

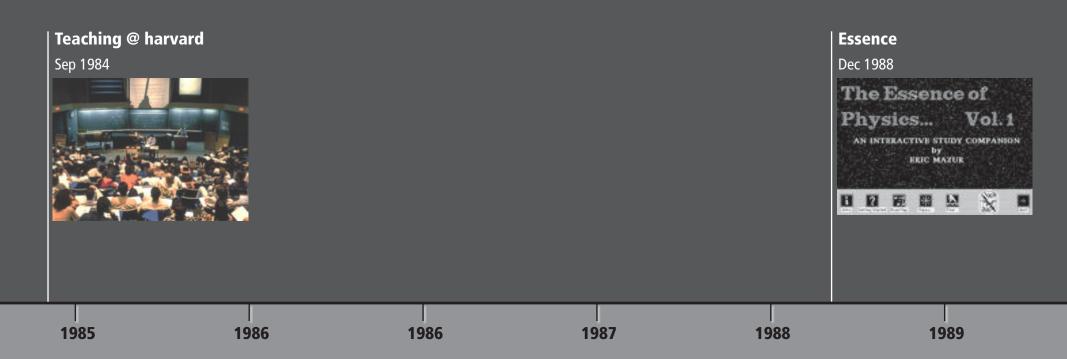
Outline

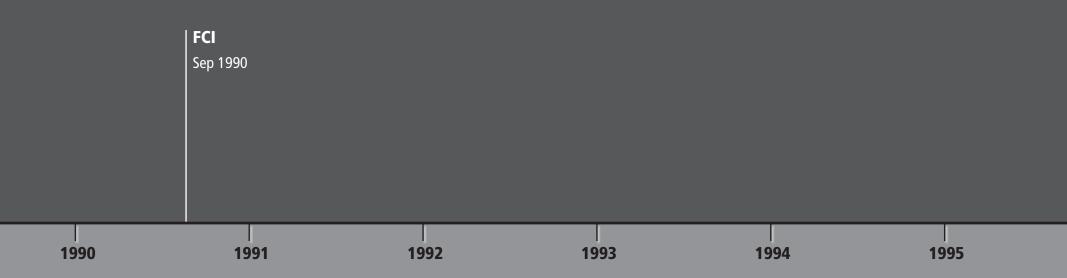
• Past

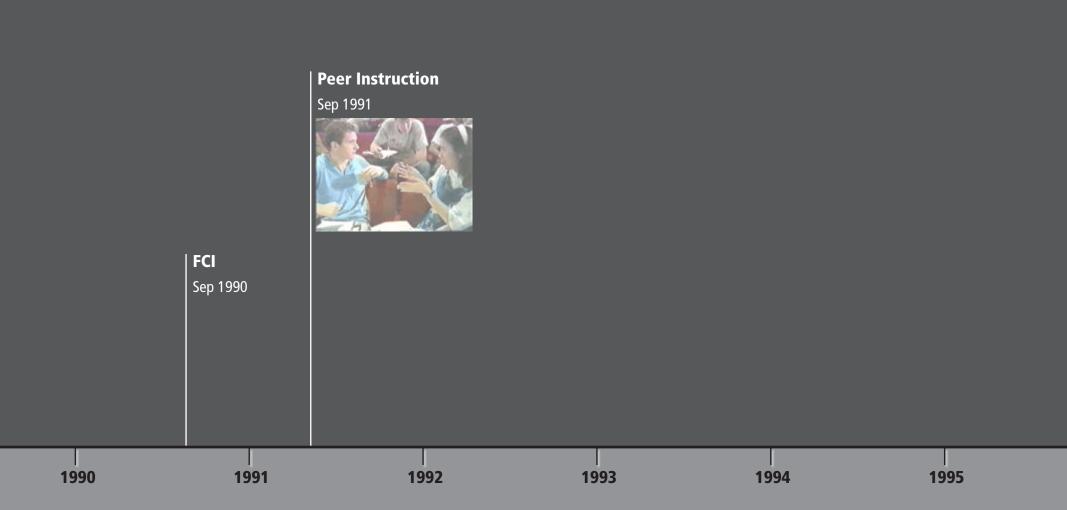
• Present

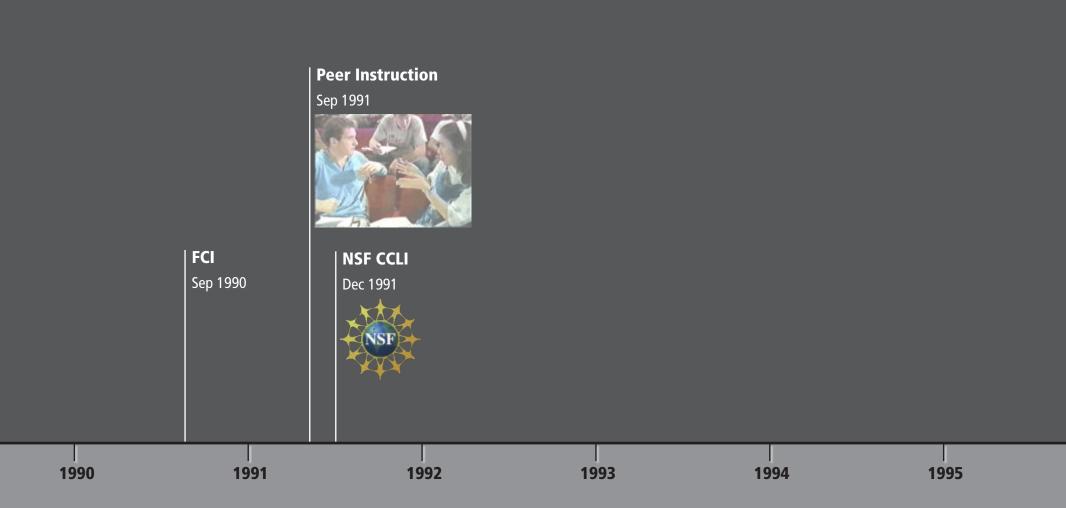
• Future

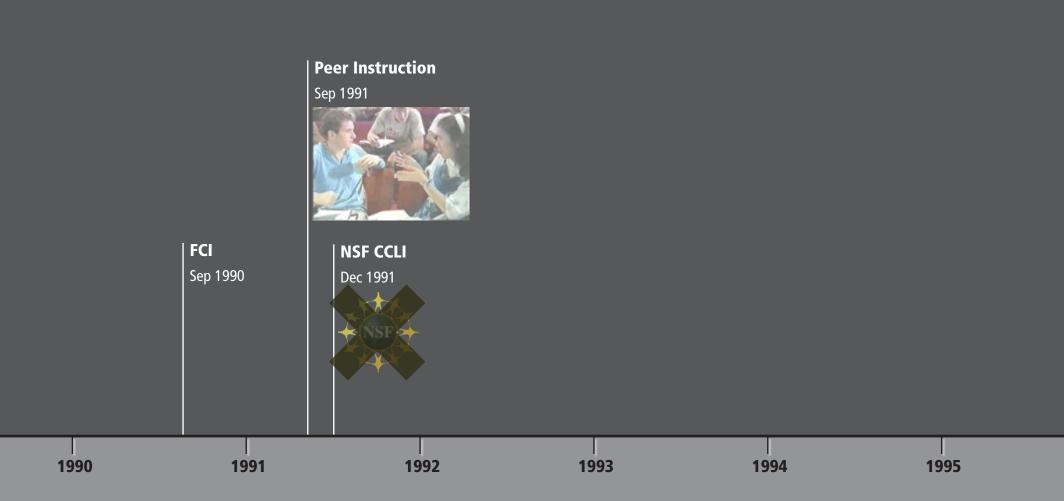


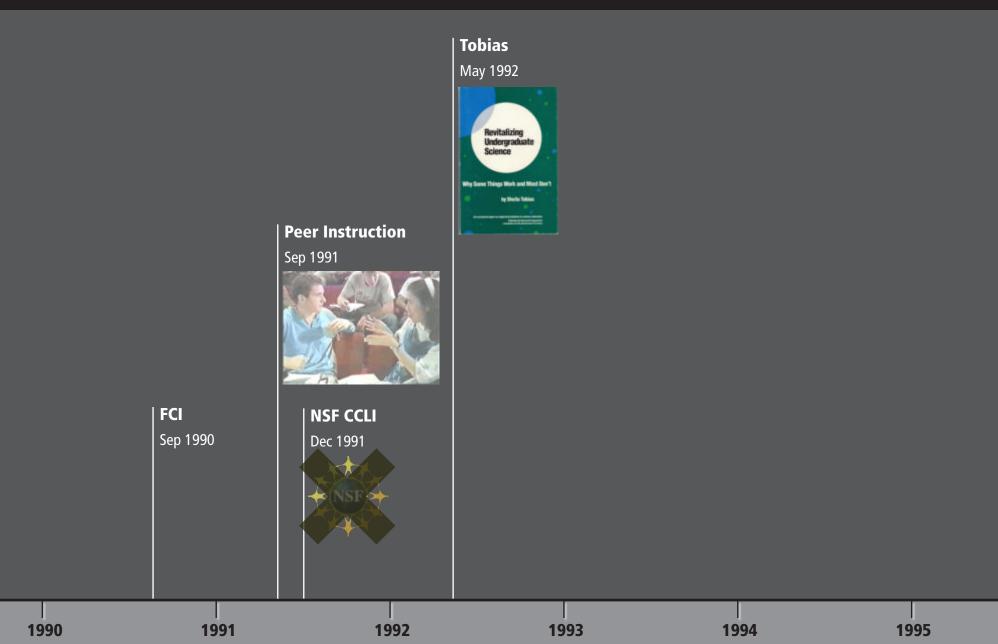


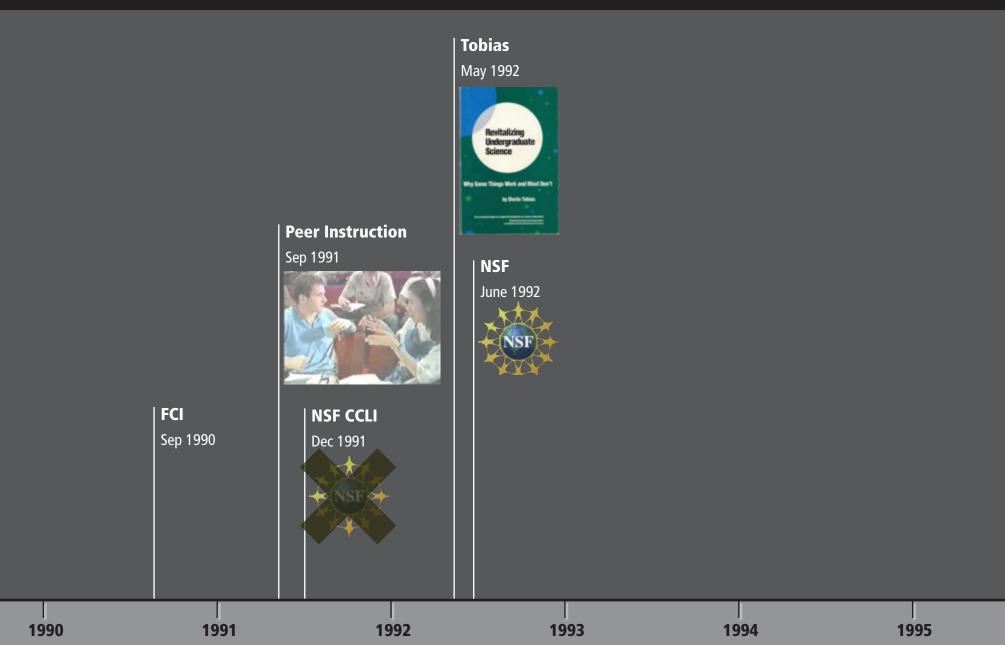


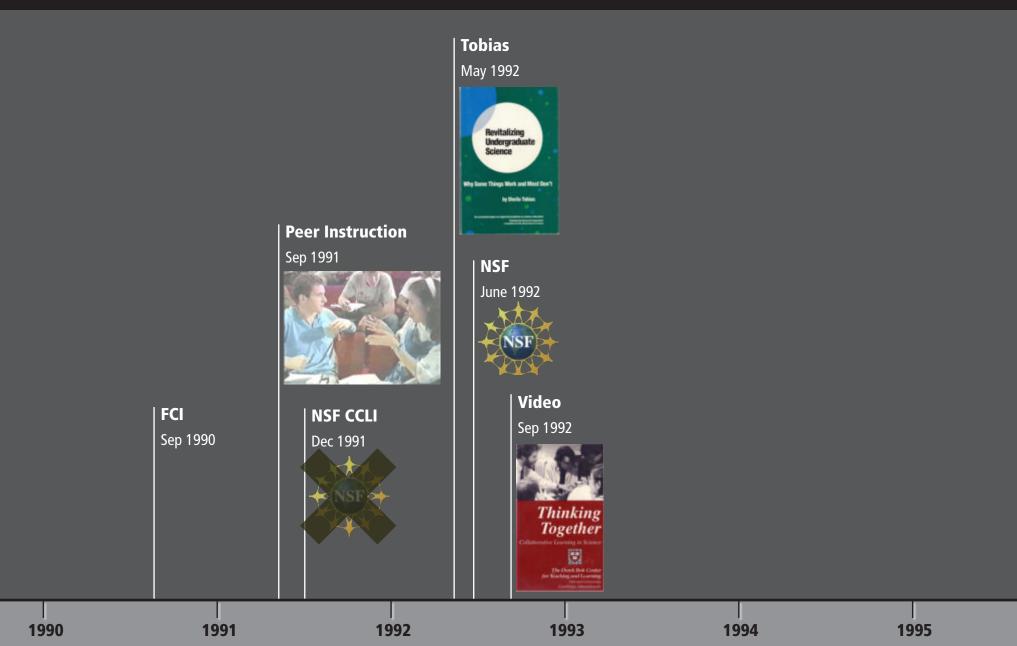


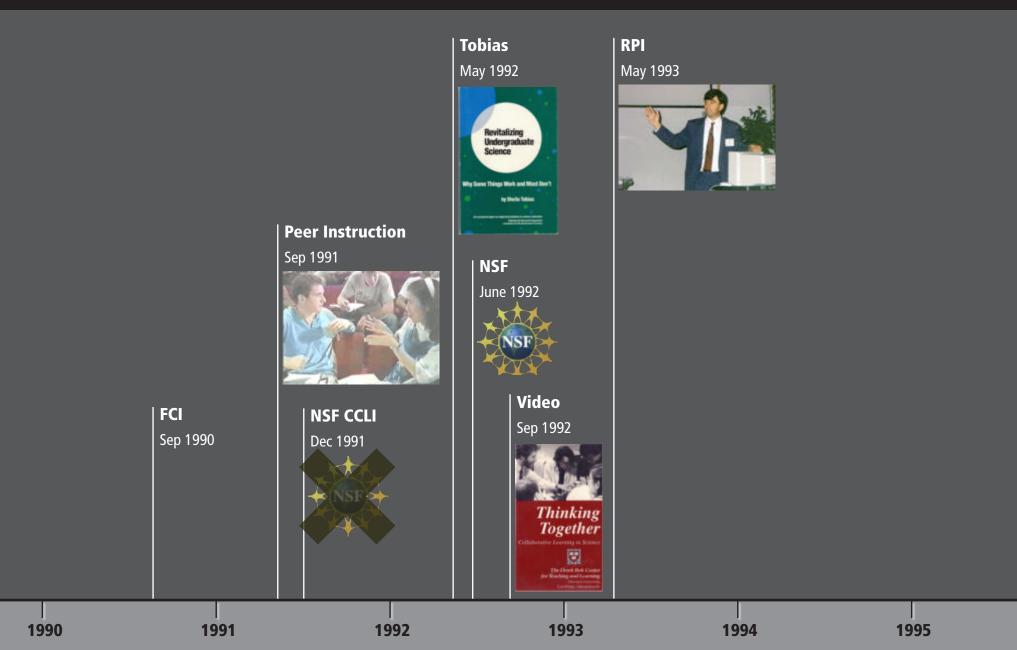


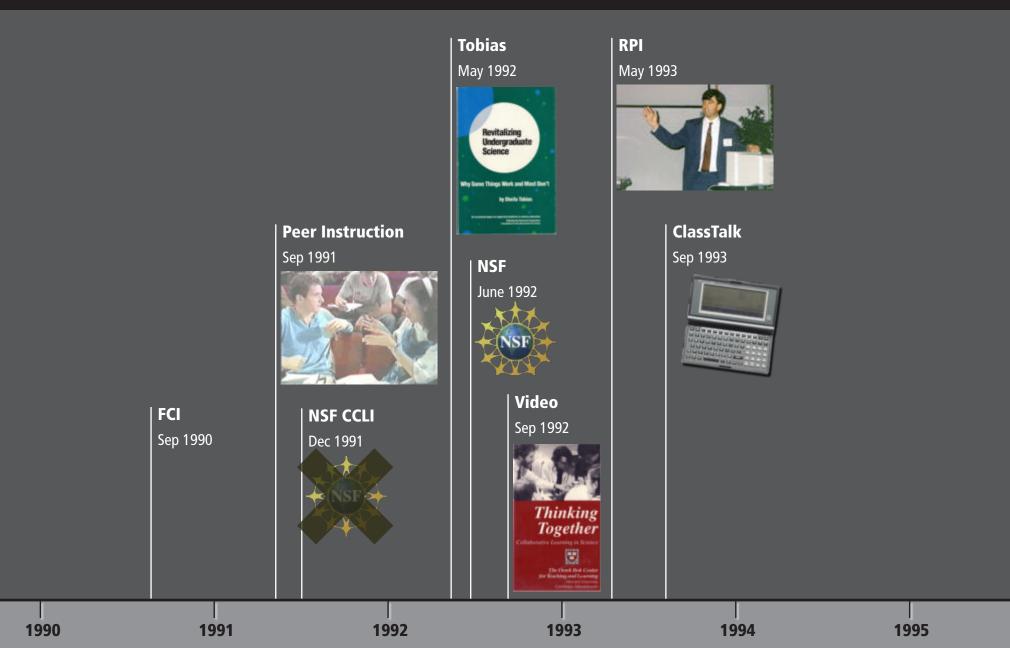


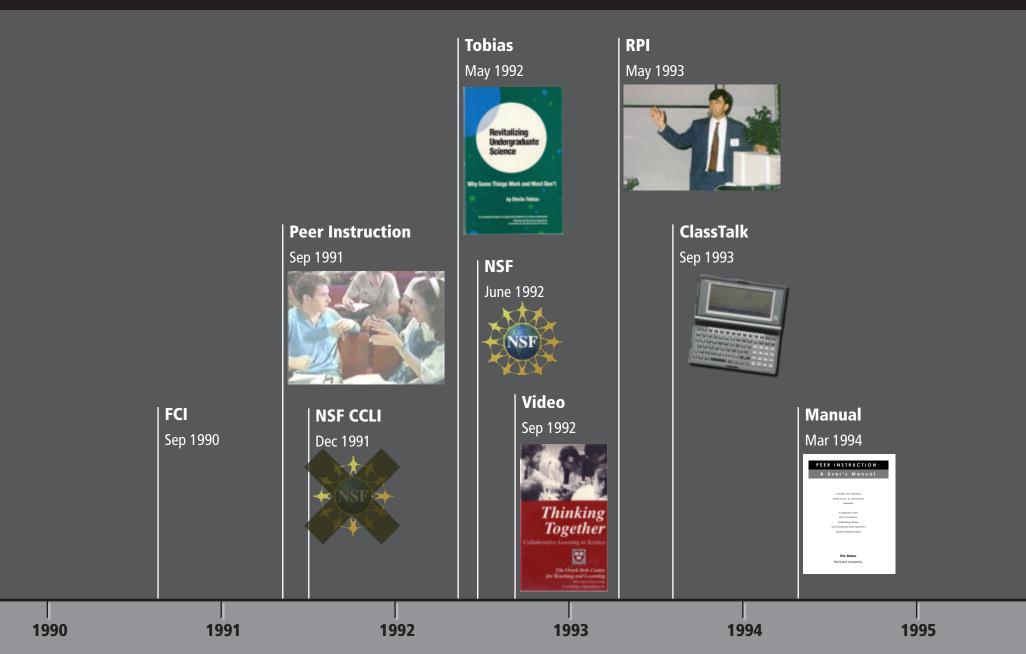


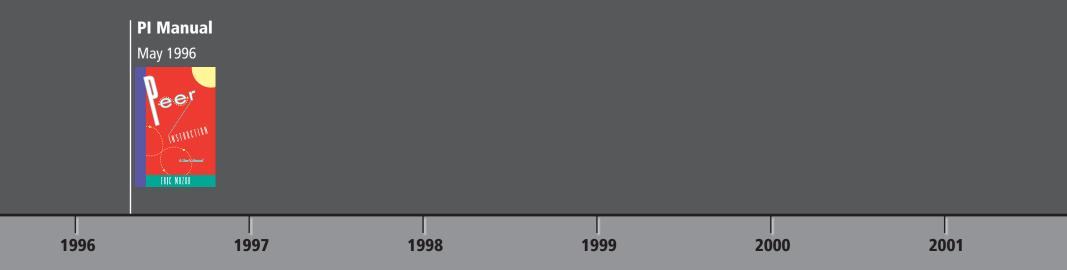


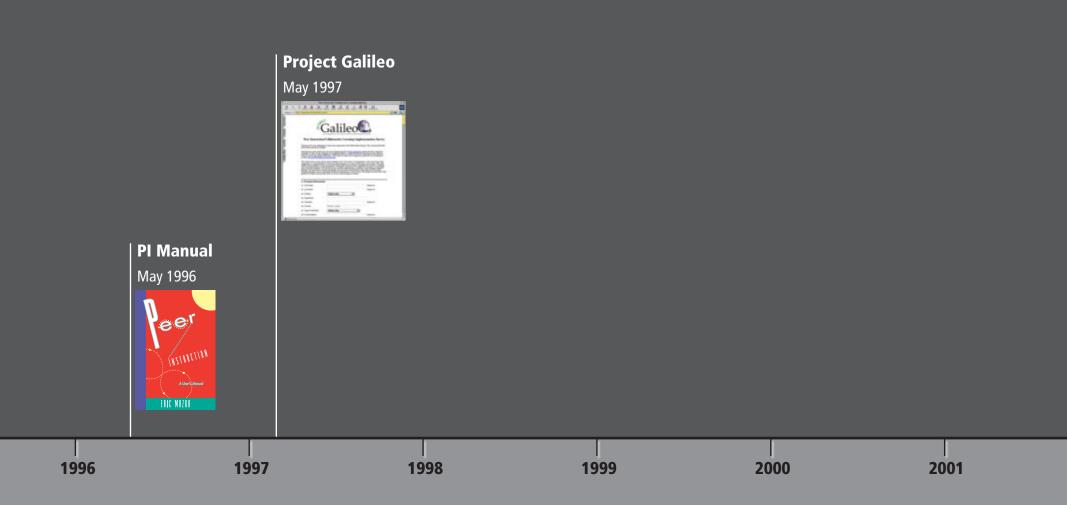


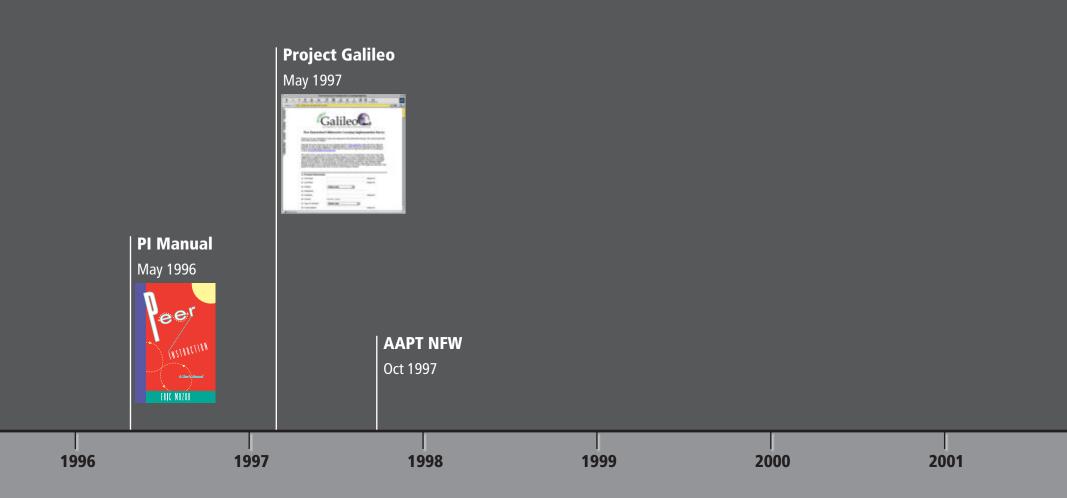


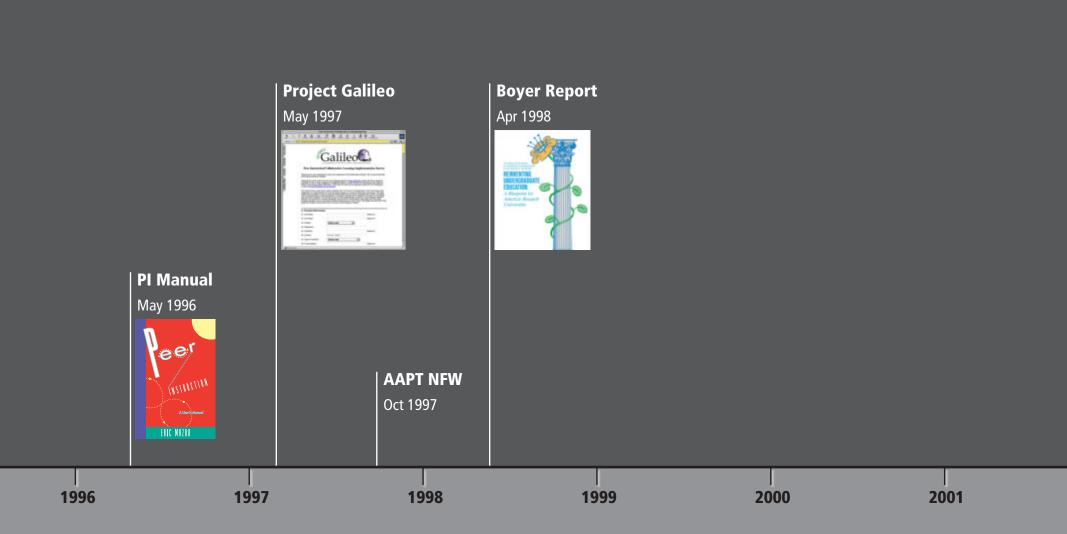


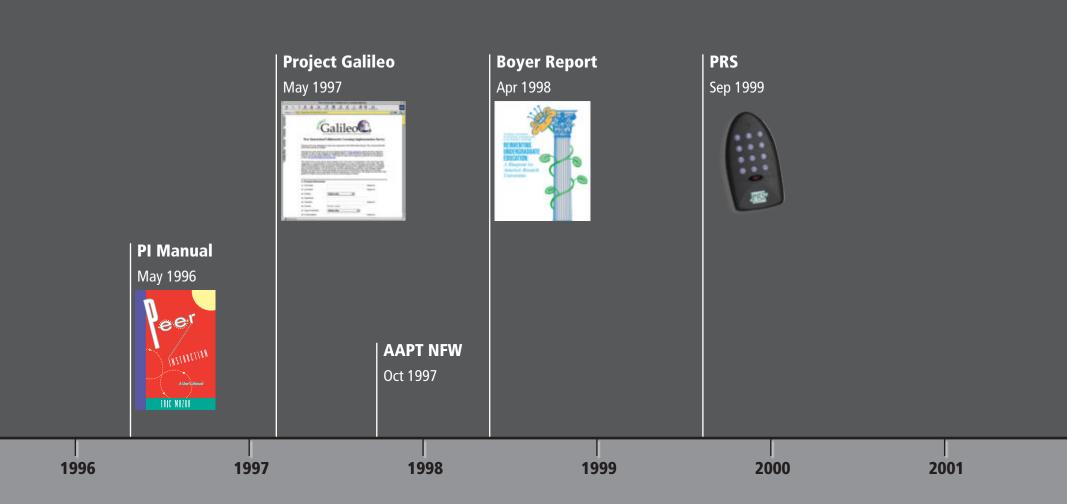




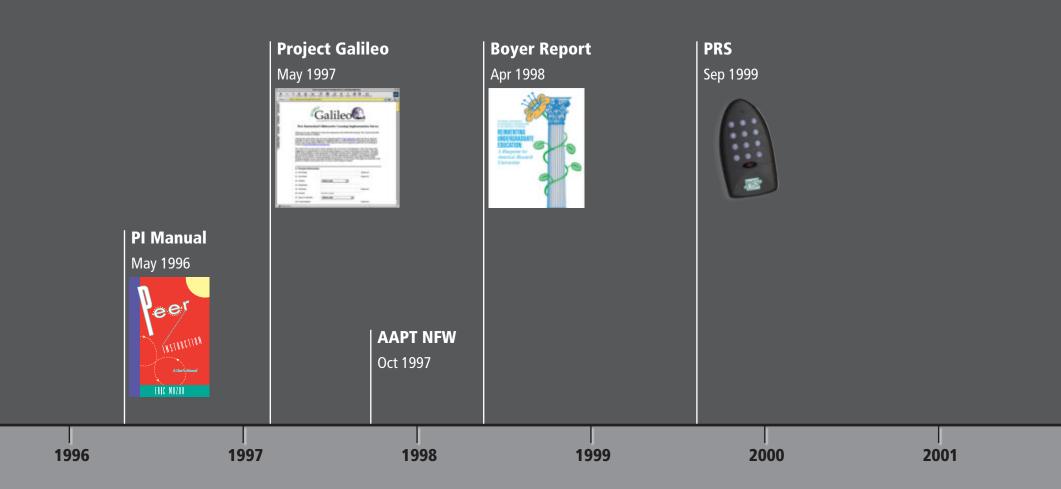




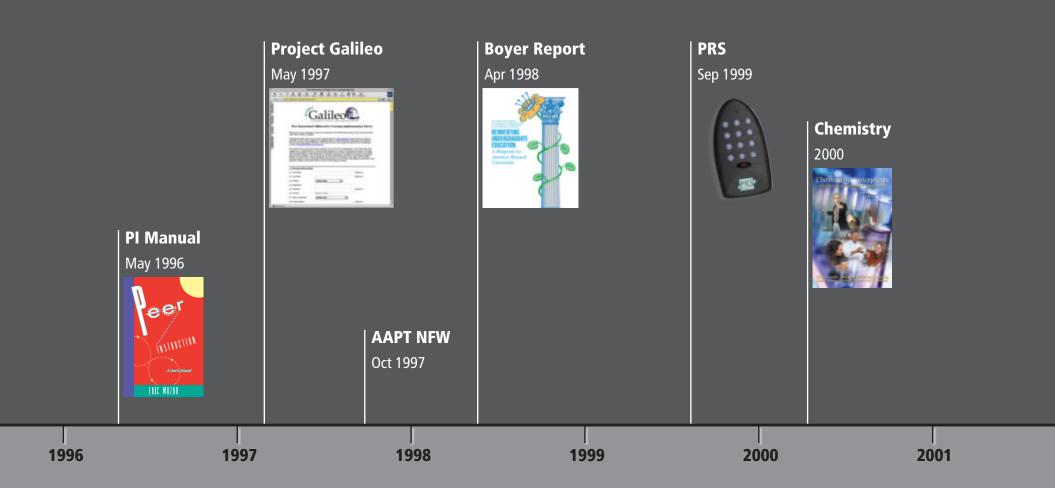




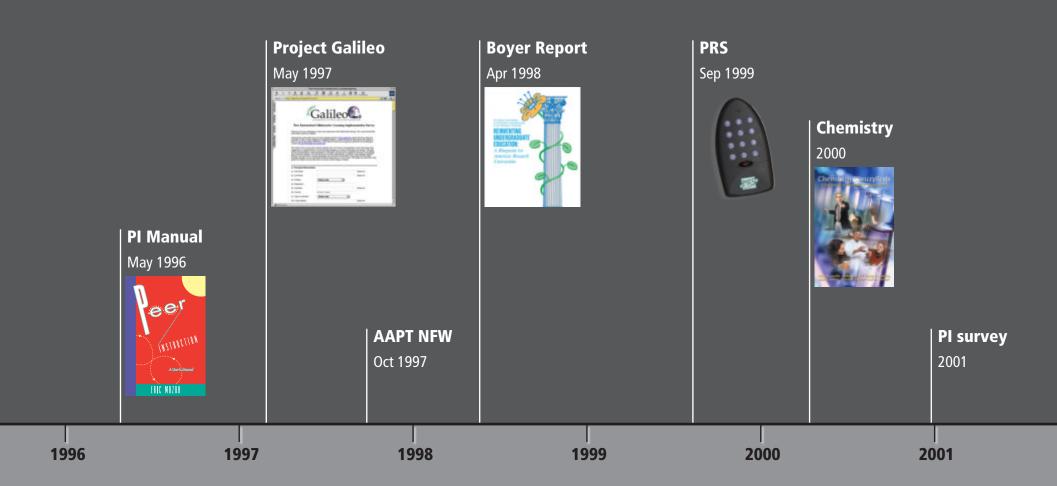
ME03 Monday 10:15 am, H-Truffles

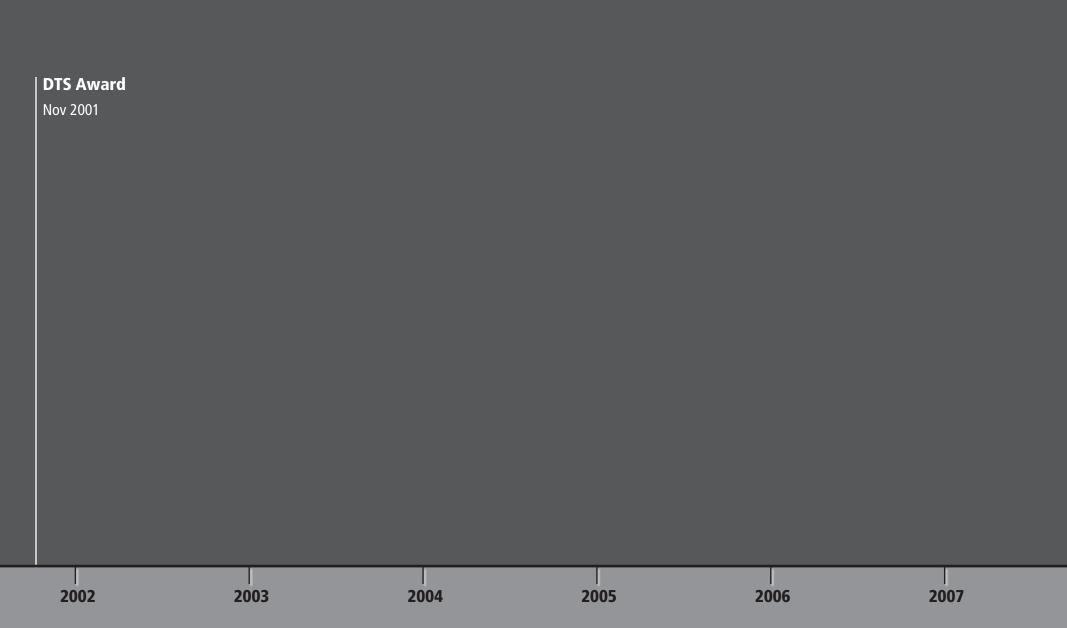


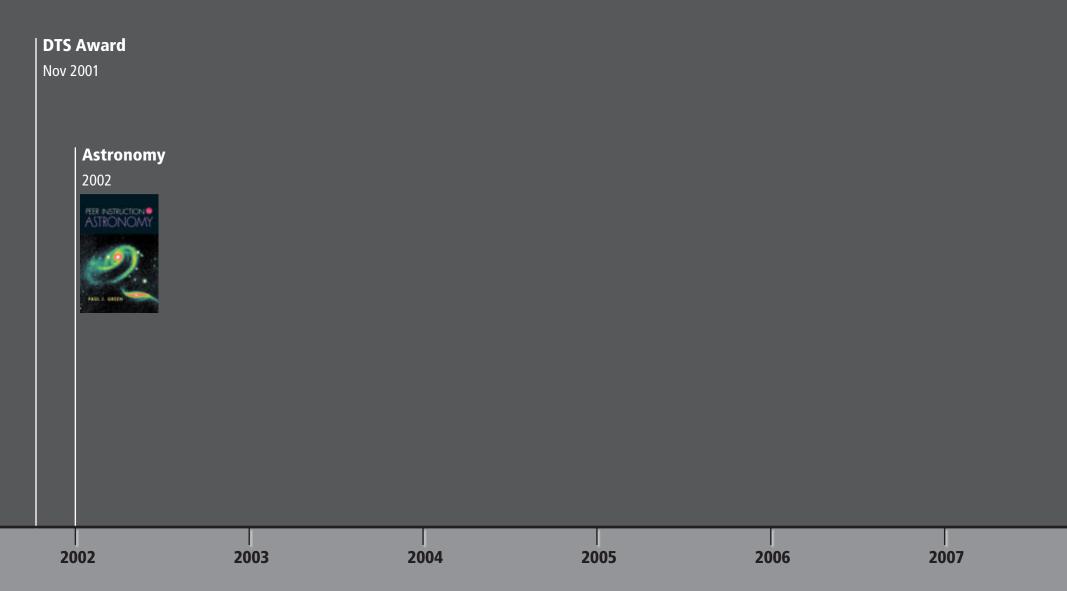
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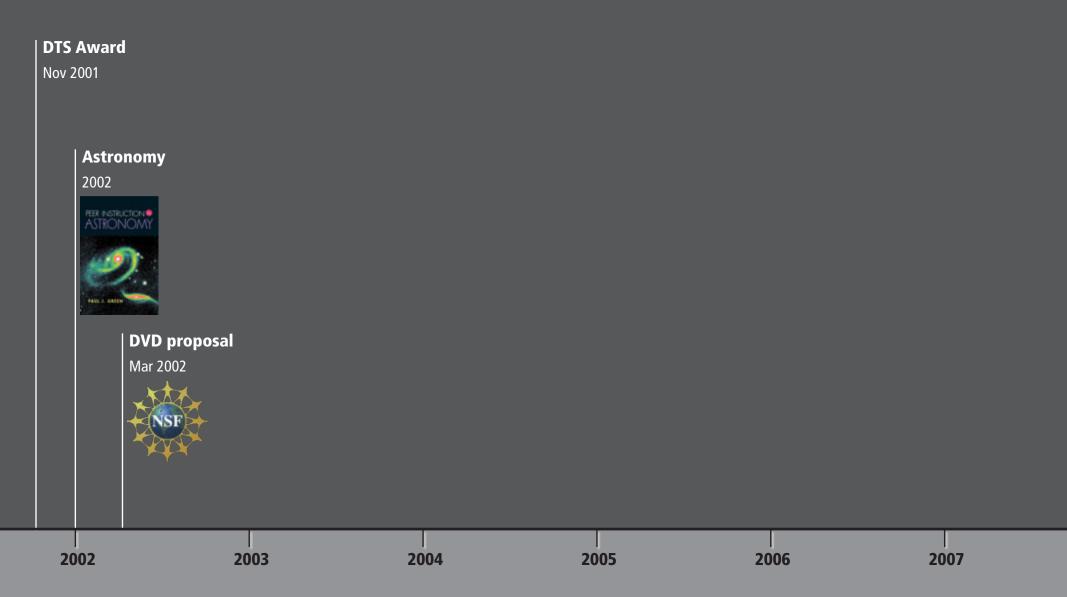


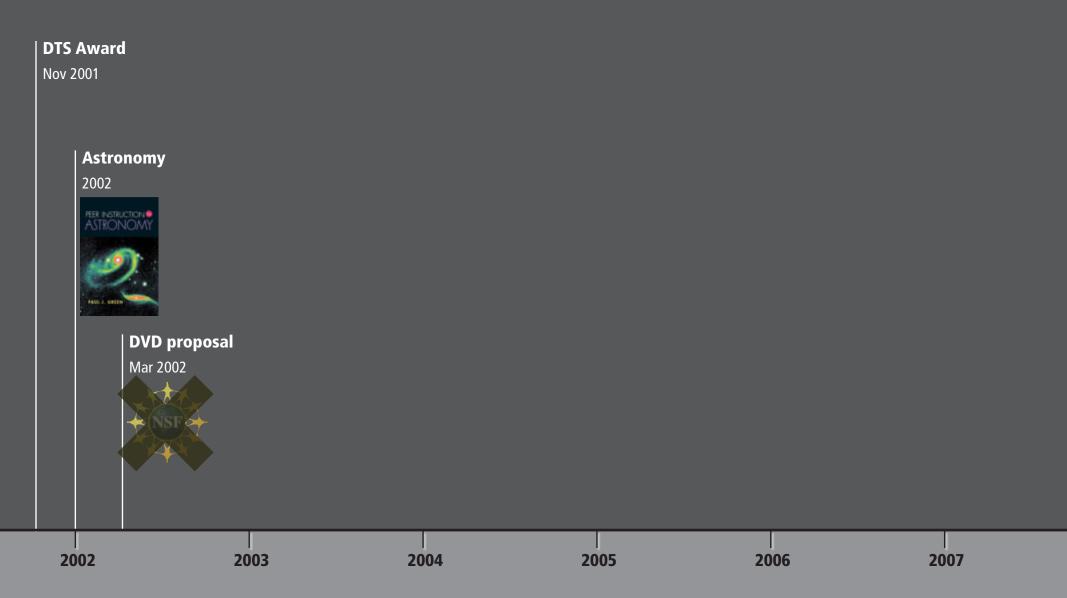
ME03 Monday 10:15 am, H-Truffles









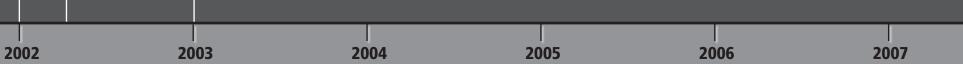




Calculus 2003

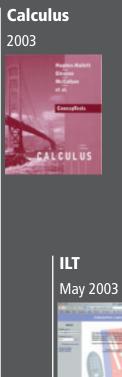








2002



2003







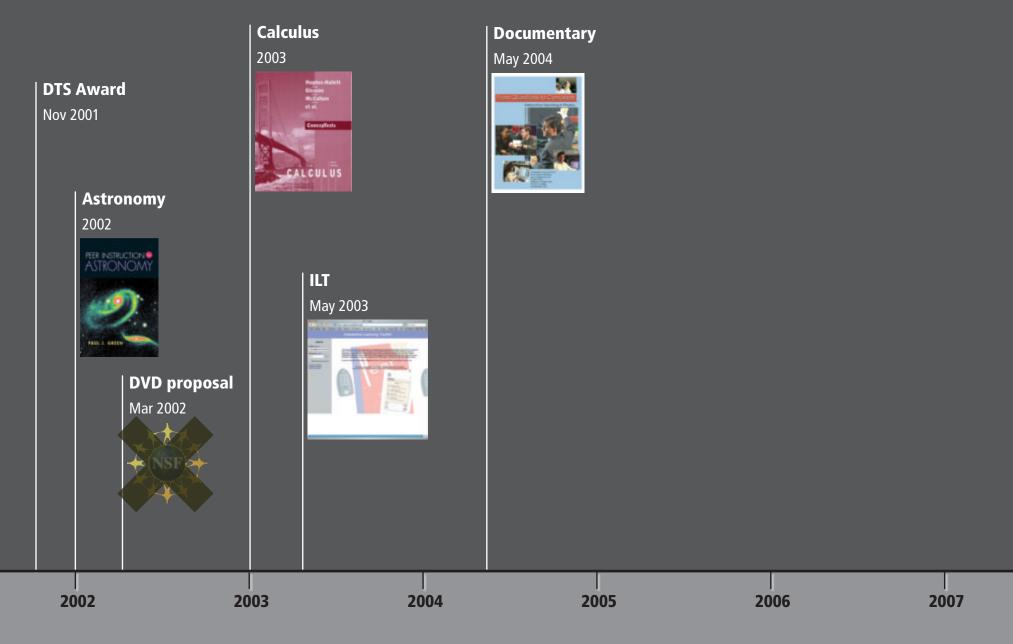


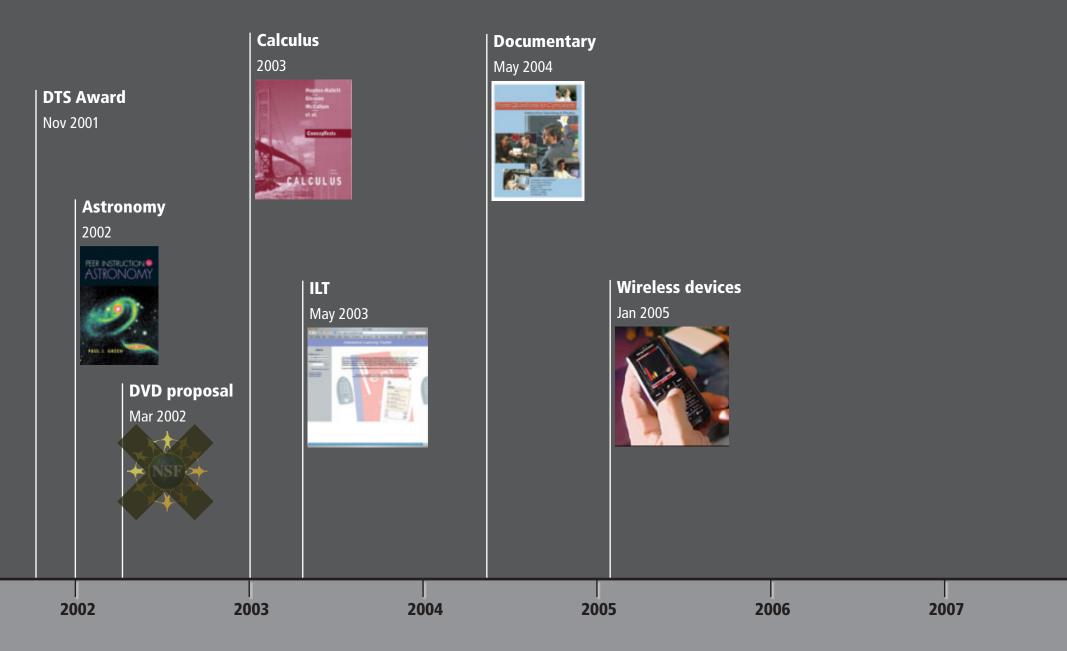
2004

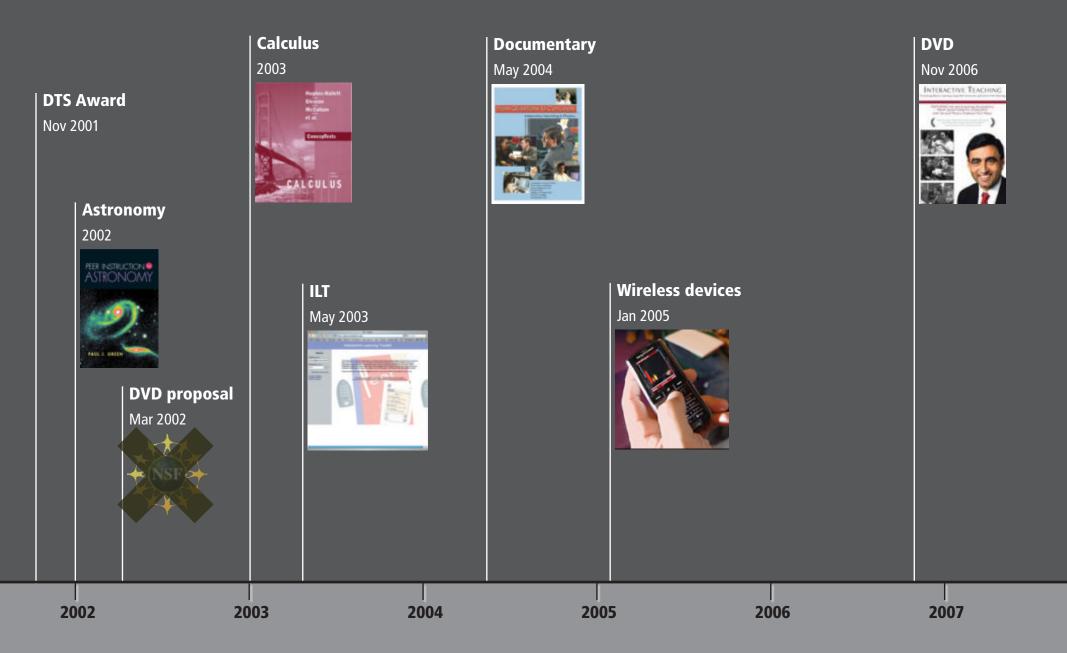


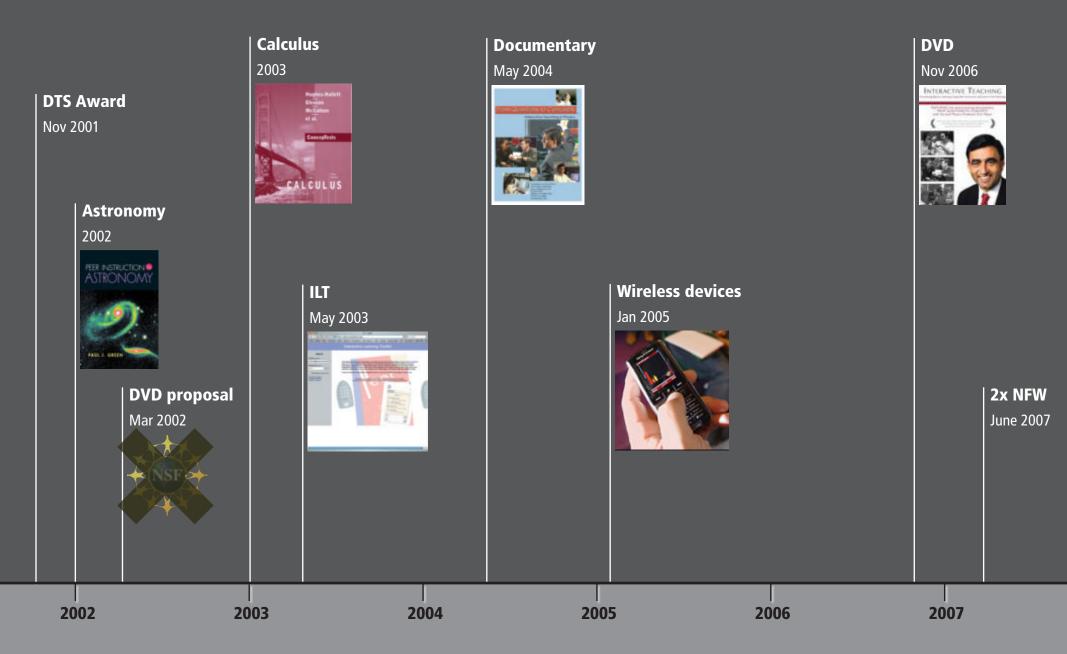


2007









Outline

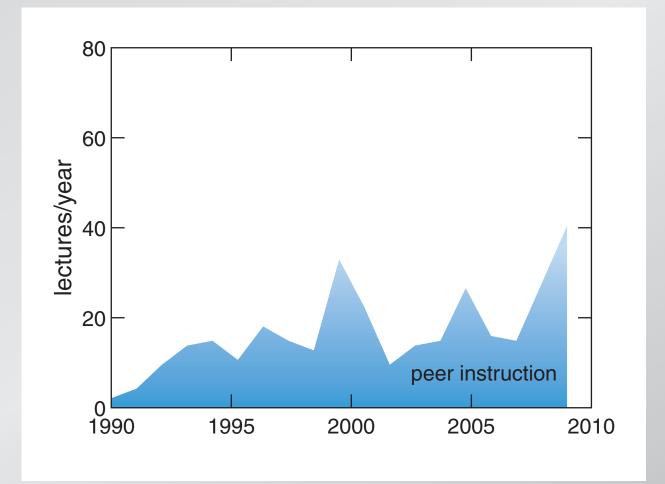


• Present

Future

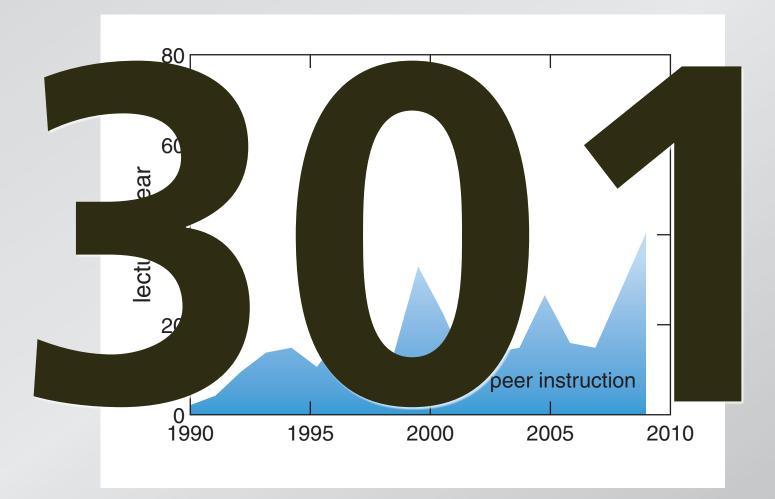
Present

lecturing

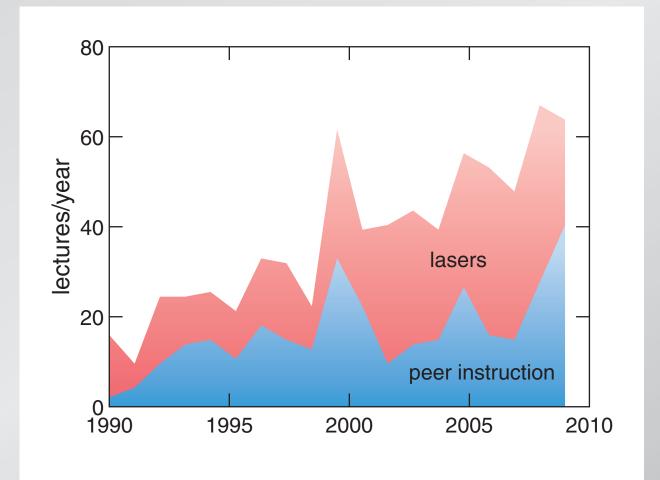


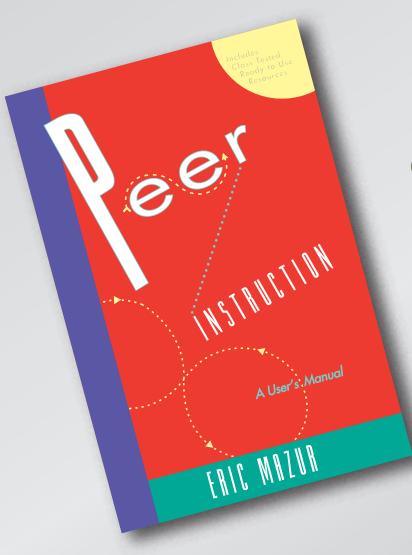
Present

lecturing



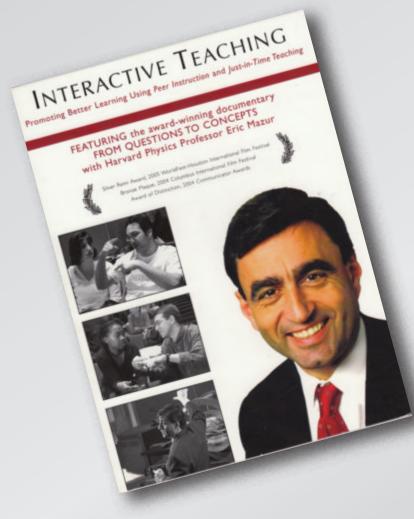
lecturing





18,700 copies shipped since 1996

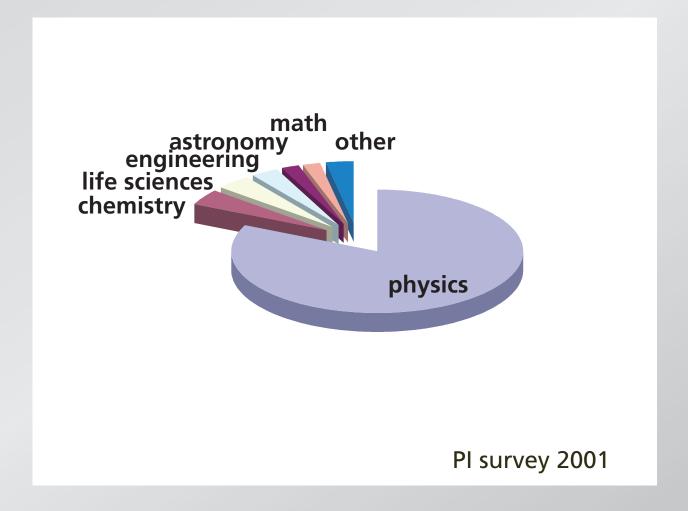
(12,700 free!)



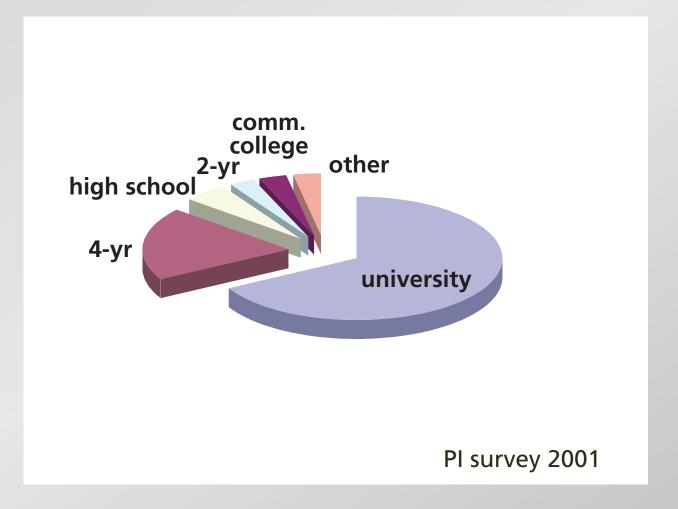
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spreading across disciplines

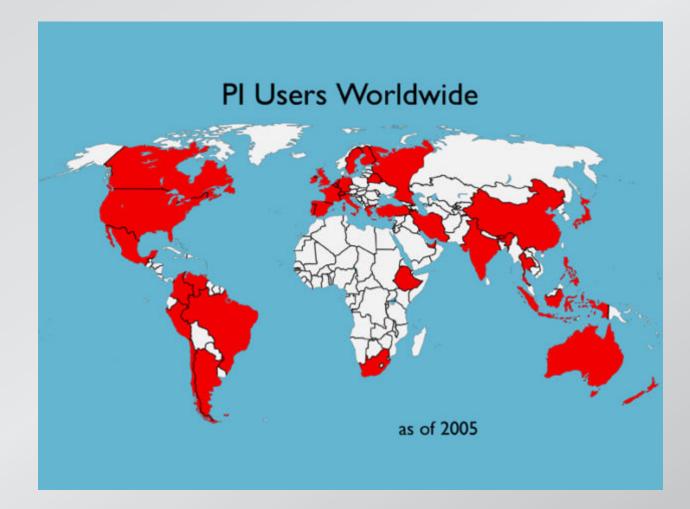


spreading across levels

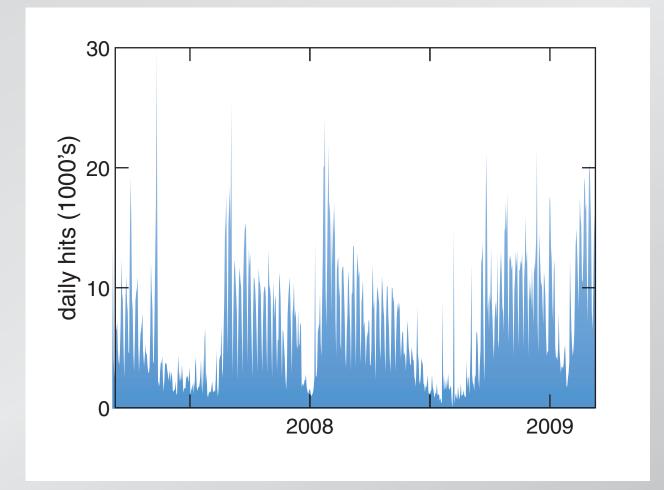




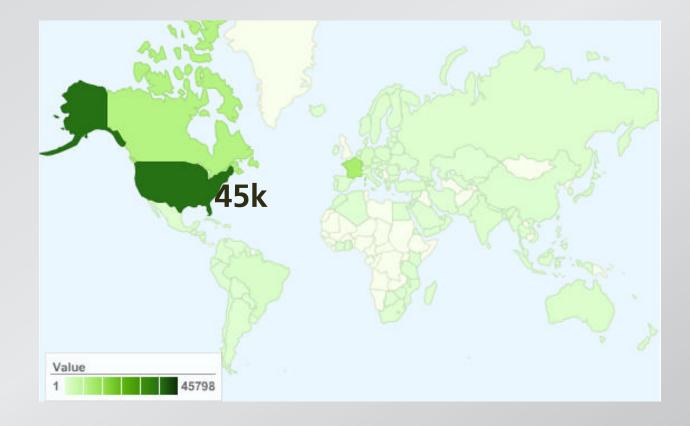
geographic spreading



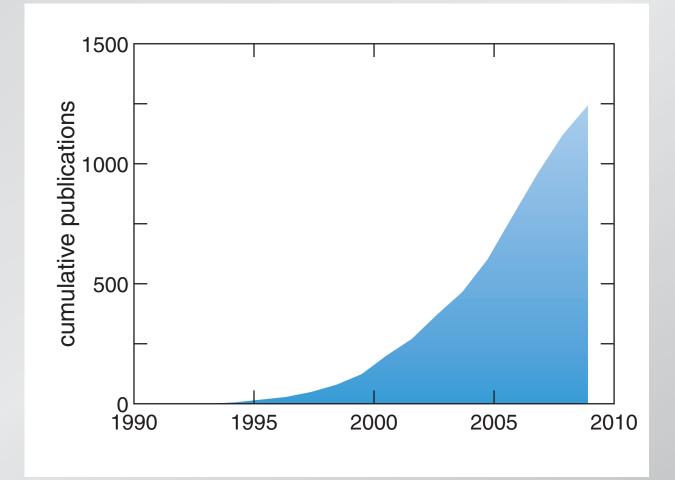
ILT usage (10k registered users)



5M education hits (120k users)



publications mentioning PI



Education

taking the "peer" out of "peer instruction"?



Outline

• Past

• Present

Future



so maybe I had a strategy

so maybe I had a strategy

I worked on:

- dissemination
- lowering the threshold
- bridging the divide

dissemination

• relentlessly focused on one message



lectures focus on information transfer

not transfer but assimilation of information is key

dissemination

- relentlessly focused on one message
- always told *my* story

dissemination

- relentlessly focused on one message
- always told my story
- always used data

dissemination

- relentlessly focused on one message
- always told my story
- always used data
- avoided jargon

lowering threshold

- share material
- provide resources
- encourage ownership, stress adaptability



bridging the divide

Summary

some suggestions

- relate to others by describing own experience
- use data/scientific approach
- let others take ownership



Funding:

Pew Charitable Trust Pearson/Prentice Hall Davis Foundation Engineering Information Foundation Derek Bok Center for Teaching and Learning National Science Foundation

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