

Creative and Innovative ways to teach physics

Points of discussion

- MOE-facilitated courses
 - Physics by Inquiry (2008)
 - Physics by Modeling (2009)
- Demonstrations
 - E.g. Van de Graff
 - Better retention of concepts
 - Real world applications (street lamp photography)
- Richard Feynman approach
 - ‘Teaching physics to an 8 year-old’ (to amaze!)
 - Story-telling
 - Set unusual questions
- Infusing anecdotes from history
 - Superconductivity
 - Transistor

Challenges

- Time constraint
- Syllabus coverage
- Difficulty in finding good demos
- Availability of apparatus
- Keeping demos simple and achievable