



Contribution ID: 80

Type: Oral Presentation

## Training Senior student to be "IIL" competent Physics lecturers

*Thursday, 14 July 2011 09:00 (15 minutes)*

Traditional lecturing of Physics in a preaching pattern to a multitude student masses in a large lecture theatre, has not succeeded in attracting more number into Physics further than second year. University of Pretoria Physics Education Research Group (UPPERG) has introduced "Interactive-Inquiry Learning" Teaching where Masters and Doctoral students are guided to lecture groups of 40 BSc4Y program students, in smaller laboratories: discussing Physics theories and concepts while supervising practicals and encouraging these younger students into exercises and tutorials of Physics.

Regular observation is done where eight senior students of Physics Department of the University of Pretoria lecture the twelve groups of students in the BSc4Y program. "Lecturers" use the IIL Teaching method. Some results of this teaching are shown.

Further observation show that contact and consultation are more spontaneous to younger senior students lecturers than to older folk lecturers. Bitter interactions in cases of "accommodation in conceptual change" ensue often leading to successful learning, which otherwise would seldom occur when a "matured professor" lectures the youngsters.

### Level (Hons, MSc, &nbsp; PhD, other)?

Physics Edu Research

### Consider for a student &nbsp; award (Yes / No)?

no

### Would you like to <br> submit a short paper <br> for the Conference <br> Proceedings (Yes / No)?

Yes

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