

March 2008

**CALIFORNIA STATE POLYTECHNIC INSTITUTE AT POMONA
PROBLEM STATEMENT**

(faculty break room)

Professor Smith: A reporter called me the other day asking about energy efficient fluorescent lighting. He wanted to know about the comparison between incandescents and fluorescents- do they really put out the same amount of light?

Professor Abrams: What did you tell him? Have you done those measurements in the Lighting Center?

Professor Smith: I don't have the data right at hand, but I told him I could get back to him.

Professor Moussavi: This sounds like a good project for my students to tackle. Why don't we ask them to come up with an answer to the reporter's question?

(Professor Moussavi's lab)

Professor Moussavi: Ok, so this is a 100 watt regular light bulb, and these others are rated 26 watts. But the packaging says they have the same output as a 100 watt bulb. We'd like you to test these- and other bulbs if you can find them- and see if these claims are true.