

# PROBLEM I

## **GROWING A GARDEN WITHOUT ANY WATER**

**Luft, Kurdziel, Roehrig & Turner, *J. Res. Sci. Teach.*, 41, 211-233 (2004).**

*Graduate TA's want to do good work, but find little support or encouragement to learn how to do their job.*

*190 Depts surveyed: 37% no TA training; 31% improved by course instructor; 32% dept. orientation (only 5% last more than one day).*

## **GRAD SCHOOL IS A ZERO SUM GAME**

*Worse than neglect: there is active cultural opposition to learning to teach.*

*“Anything that takes one out of the lab is a diversion from the grad school goal of learning to do independent research.”*