

## Laboratory Report

	Dyed Solar Cell (Prepared fresh)			Dyed Solar Cell (After 1 week)
Light Source	None	Classroom Light	Overhead Projector	Overhead Projector
Voltage				
Current				

1. Titanium oxide is the most common pigment in white paints. Using the normal, inexpensive source of this pigment in a DSC does not work however. What is the function of **nanocrystalline**  $\text{TiO}_2$  in a solar cell?
  
2. Predict how you would expect the voltage and the current produced by a DSC to change if the size of the solar cell were increased from  $1'' \times 3''$  to  $3'' \times 3''$ .
  
3. What are the advantages and disadvantages of placing solar panels on the southern versus the western side, respectively, of a home?