SUMMING UP
WEEK 3:
LIGHT

MAKING SCIENCE AND ENGINEERING PICTURES
A PRACTICAL GUIDE TO PRESENTING YOUR WORK

Ask Yourself Questions About Lighting When You Look at Photographs

- Where does light fall on the image and where are there shadows?
- How much light is there?
- From what direction is the light?
- Is the light direct? Diffuse?
- Can you guess at how the lighting was created? Would you change it?

Experiment with:

- Different sources of light — daylight • incandescent bulb • fluorescent bulb • UV lamp • LED
- Location of light — distance from object • height/angle with respect to the object
- Direct and diffused light — lens • bounce card • container • mirror • flashlight • fiber optic monopoint • reflective background
- Multiple light sources and locations
- Lighting to impact composition — selective lighting of object • slants and slices of light

Let Properties of Your Object Guide Lighting, Composition, and Exposure

- Fluorescent samples — UV light, long exposure times
- Special cases: Ferrofluids — response to magnetic objects
- Transparency
- Reflectivity

Resource: Making Science and Engineering Pictures: A Practical Guide to Presenting Your Work

Felice Frankel