

Gearing Up Workshop

Saturday, March 3

Equipment Considerations

Marea Downey



Equipment Considerations

What do you want to say?

What are you photographing?

- Landscapes
- Portraits
- Fast Action, Sports, Wildlife
- Macro/Close-up
- Night Photography



Landscapes

- For best results use a tripod; bubble level; cable release; mirror lock-up
- Perhaps use a polarizer
- Maybe graduated filters to “hold back the sky” Or make multiple exposures to blend later



Landscapes



Use of filters - polarizer



Without polarizer



With polarizer

Portraits

- Consider using light modifiers such as reflectors
- Consider adding light with flash or studio lights
- Shallow depth of field (wide aperture) – focus on eye nearest camera

Portraits



Found light, with reflector



Light added by flash outside window

Portraits

Artificial light needs to look realistic



Fast Action/Sports/Wildlife

- Handheld: use shutter speed at least the same as the focal length
- For example, a 200 mm lens needs at least $1/200^{\text{th}}$ second
- Some lenses have an image stabilizer
- Hint: You can use focus tracking on your camera, if available (Canon: AI Servo)

Fast Action/Sports/Wildlife

To stop the action:
fast shutter speed

(Needs to be faster
when action goes
across field of view
than towards you)



Fast Action/Sports/Wildlife

Slower shutter speed, and panning the camera across the field of view, gives a sense of motion.



Macro/Close-up Photography

- Macro applies to 1:1 or higher magnification (image the same size as the subject)
- Close-up refers to less than 1:1 ratio
- Use the macro end of telephoto lens or a dedicated Macro lens
- Focus point is critical; consider a tripod



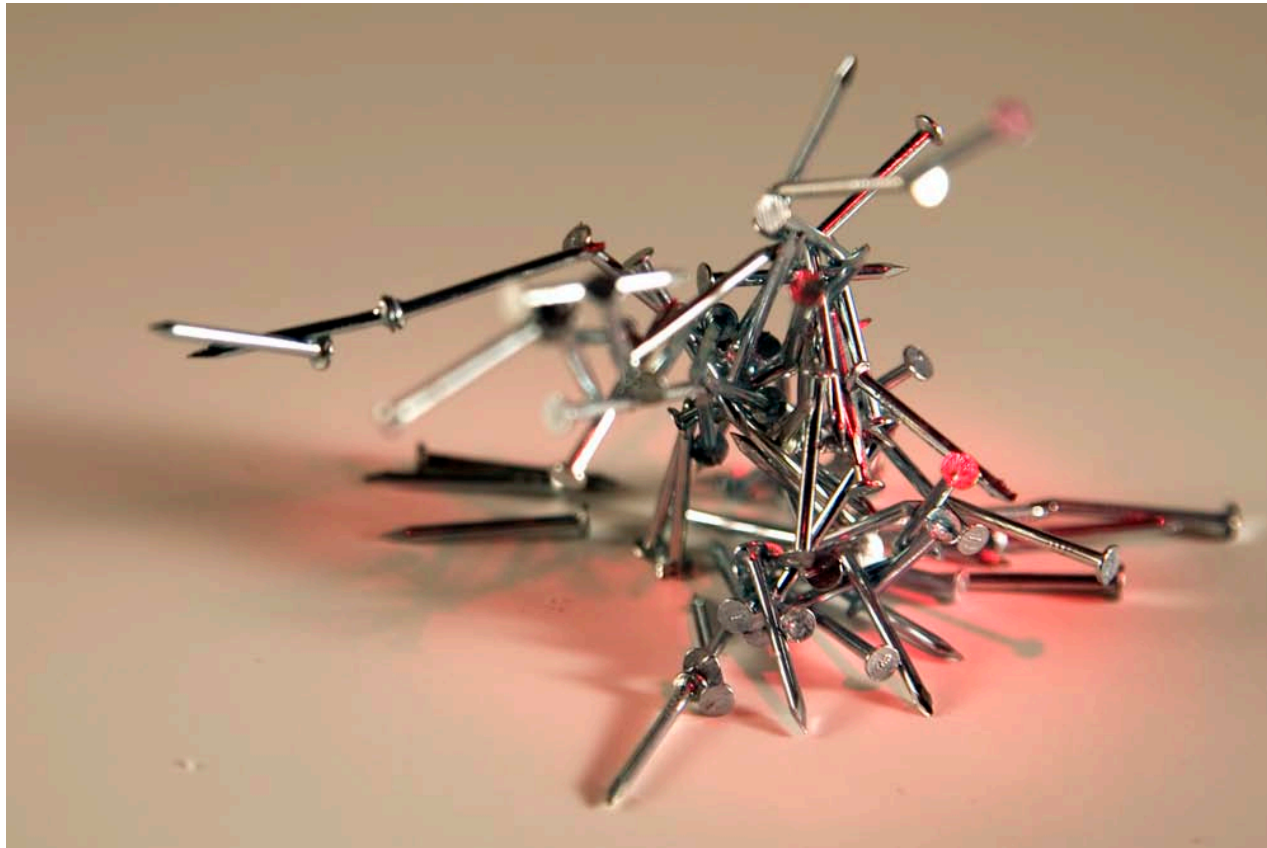
Macro Photography

100 mm macro lens has a 1:1 ratio



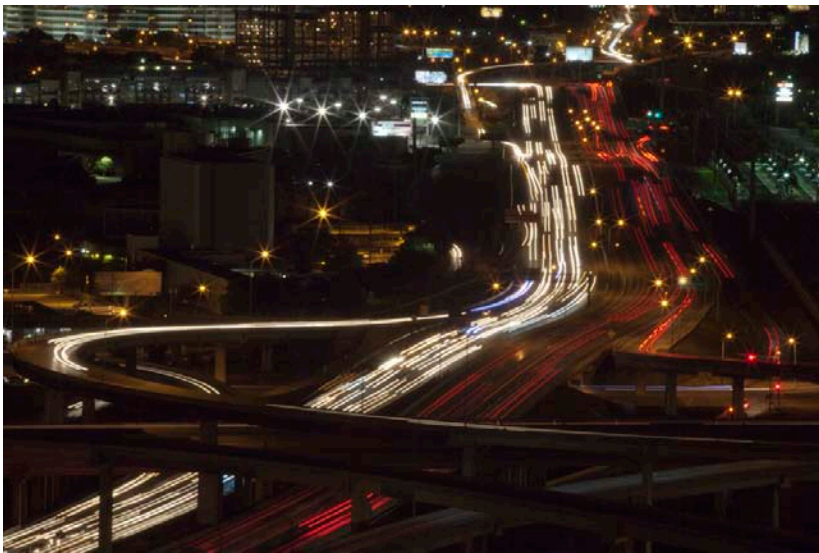
Close-up Photography

24 – 105 mm lens at 105 mm
has 1:4 ratio



Night Photography

Probably need manual exposure settings



4 seconds not enough!



15 seconds works!

Night Photography

Use a tripod for stability

Use small aperture for “starbursts”



Please visit one or more stations to
learn more!

Thanks for your time