# Photography on the Move

How to get the challenging shots in less than ideal conditions

by Clem Wehner

### **Automatic what?**

- EXPOSURE
- · FOCUS
- WHITE BALANCE
- · ISO

It depends!



# **Problems and Solutions**

When photographing:

- Indoors
- Museums
- •With tour groups
- Impatient companions
- Not enough time to think about settings
- •Flash photography prohibitions, etc

### Recommendations

- EXPOSURE- manual or auto (your choice)
- FOCUS- use autofocus (works great \*)
- WHITE BALANCE- use auto WB (works well \*)
- ISO- don't use auto ISO (you lose control of noise \*)
- \* most of the time

### WHICH TO USE?

Automatic or Manual?

### **EXPOSURE**

# AUTOMATIC EXPOSURE- use when:

- Perfect exposure is desired, but not mandatory
- You don't have much time to adjust settings
- You can take several shots of the subject
- The scene, light, subject is changing from shot to shot
- You don't understand manual shooting

### MANUAL EXPOSURE- use when:

- When perfect exposure is important
- You want total control of exposure
- You only get one shot
- You have time to adjust settings
- You understand what you are doing

### **Special Lighting Tools**

### FLASH:

Pop-up flash

External Flash (modes, articulating head,etc)

### **DIFFUSERS:**

Commercially available (garyfong.com)
Homemade (packing foam, paper, etc)

"Clem's Special" Light Beamer

### **Special Lighting Tools**

### FLASH:

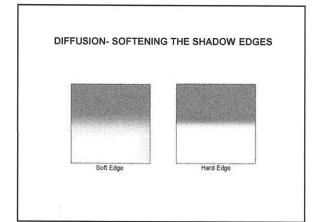
Pop-up flash

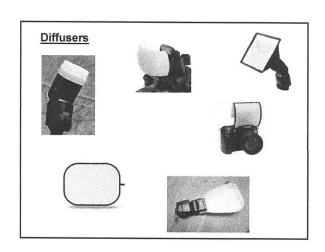
External Flash (modes, articulating head,etc)

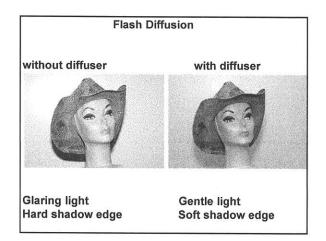
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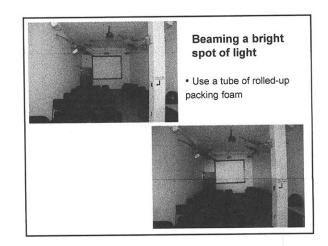
Commercially available (garyfong.com)

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"Clem's Special" Light Beamer

The packing foam diffuser





# **Special Lighting Tools**

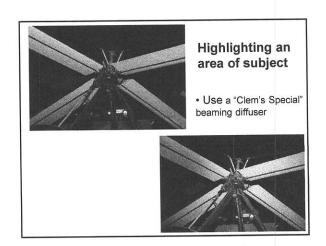
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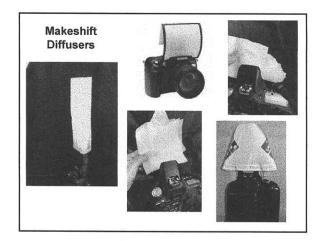
# "Clem's Special" Light Beamer

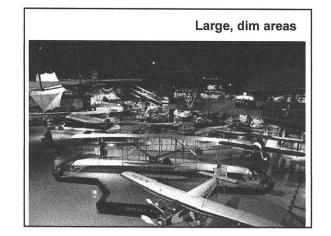




# Diffusers in a pinch

- · Thin packing foam
- Plastic cup
- · Paper towel
- · Toilet paper
- · Thin white cloth
- Handkerchief





# **CHIMPING**

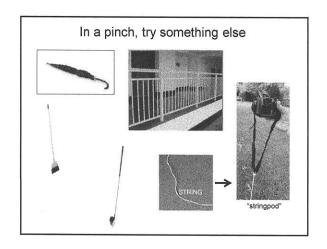
CRUTCH OR TOOL?

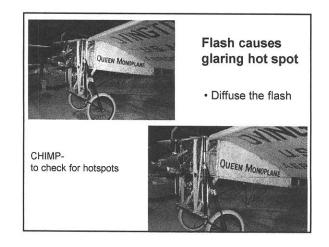
# Large, dim areas

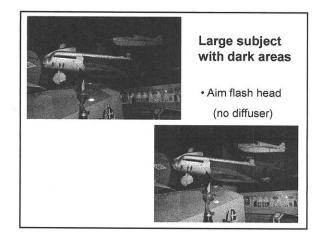
- Manual exposure
- Higher ISO
- Wide angle lens
- · Slow shutter speed
- Wide open f/stop
- · Image Stabilizer on
- Use tripod/monopod
   Brace on something
   Use a "stringpod"

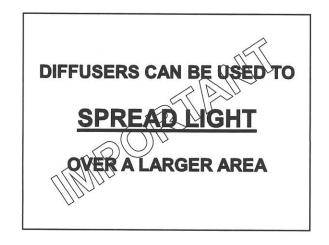
Learn to use ALL your tools!

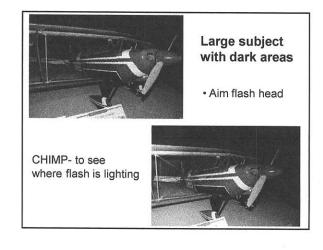
# STABILIZE THE CAMERA Monopod Tripod

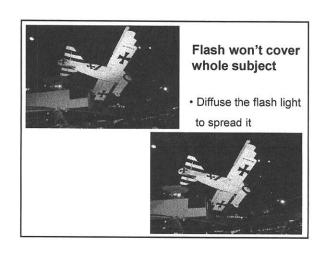


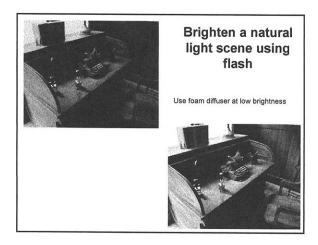


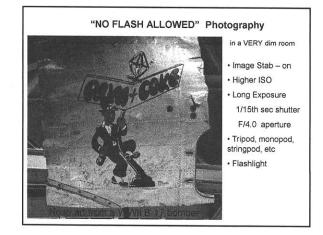


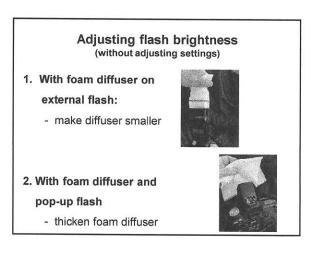


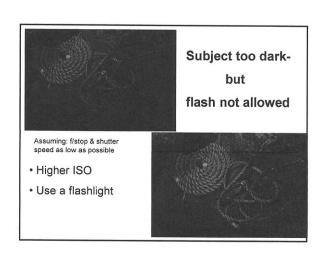


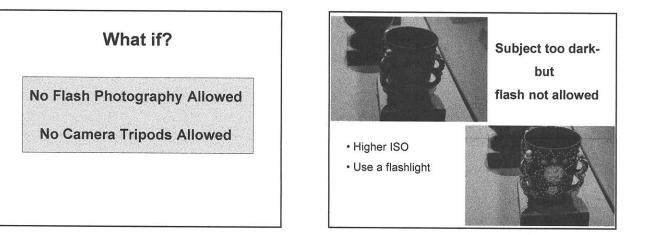


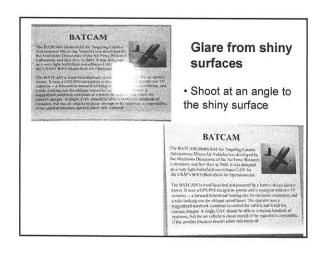


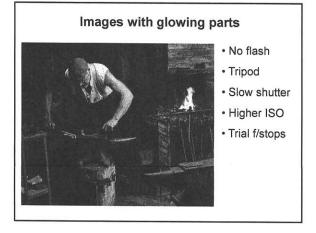


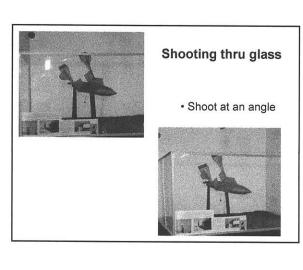


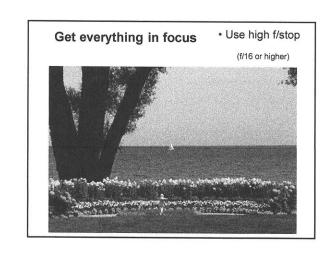




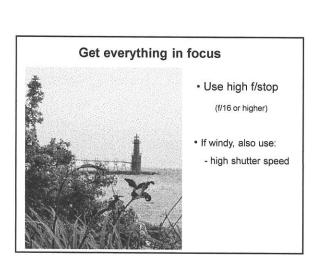














CHIMPto check for dark areas

# Dark areas inside of subject

- Manual exposure
- · Spot metering
- · Beam the flash
- Flashlight





USS Cobia in Wisconsin

· be last in line





# Freezing motion



CHIMP- to verify you got the axe in flight

### · High shutter speed

Shutter Priority

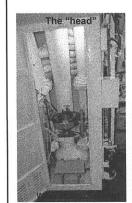


# **Tour groups**

Someone is always in the shot!



WWII submarine sleeping quarters for 24 men



### INSIDE AND CLOSE

(boats, airplanes, vehicles, small buildings, etc.)

Everything is close

Small flash (pop-up) is fine Use diffuser to reduce glare



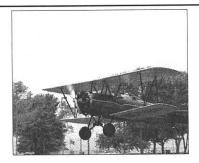


### Fast motion

OPTIONS: 1. MANUAL

2. SHUTTER PRIORITY

3. SPORTS MODE



Fast motion

1. MANUAL

· Overcast day

OPTIONS: 2

2. SHUTTER PRIORITY

3. SPORTS (if enough light)



Goal: smooth the moving water

OPTIONS: 1. MANUAL (1/4th - 1/15th sec)

2. . SHUTTER PRIORITY



· Fast motion

1. MANUAL

· Sunny day

**OPTIONS:** 2. SHUTTER PRIORITY

3. SPORTS MODE



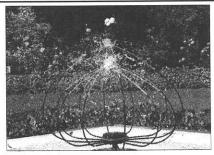
Goal: everything in focus

1. MANUAL

OPTIONS:

2. APERTURE PRIORITY

3. LANDSCAPE MODE



Goal: Stop the moving water

1. MANUAL (1/200th sec or more)

OPTIONS:

2. SHUTTER PRIORITY

3. SPORTS MODE



Goal: everything in focus

1. MANUAL

OPTIONS:

2. APERTURE PRIORITY

3. LANDSCAPE MODE



Goal: everything in focus

1. MANUAL (f/16 or higher)

OPTIONS: 2. APERTURE PRIORITY

3. LANDSCAPE MODE

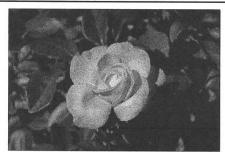


Goal: clear photo from moving vehicle

1. MANUAL (1/250 OR MORE)

**OPTIONS:** 2. SHUTTER PRIORITY

3. SPORTS MODE

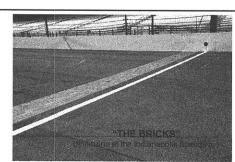


Goal: gently blur the background

1. MANUAL (f/4 or less)

**OPTIONS:** 2. APERTURE PRIORITY

3. PORTRAIT MODE



Goal: in focus on a bright day

1. MANUAL

OPTIONS: 2. "P" auto mode

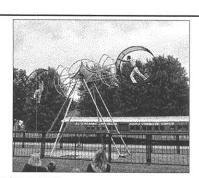


Flowers moving in blowing wind

1. MANUAL (1/160th or more)

**OPTIONS:** 2. SHUTTER PRIORITY

3. SPORTS MODE



Fast moving subject

Bright light OPTIONS:

1. MANUAL (1/200 OR MORE)

2. SHUTTER PRIORITY

3. SPORTS MODE



Fast moving subject Low light

### OPTIONS:

- 1. MANUAL (1/100th or more)
- 2. SHUTTER PRIORITY
- 3. FLASH (if allowed)
  - or, INCREASE ISO

# Stuff to keep in your camera bag

- · Packing foam
- · Rubber bands
- Tape
- String
- Small scissors
- Small bright flashlight (preferably LED)
- · Spare batteries



Cityscape at night

1. MANUAL (1/25th sec, f/2.8)

OPTIONS:

2. NIGHT MODE

(Use tripod)

### Some last thoughts

- Photography in these situations is trial and error
- · Take lots of shots. Try different settings
- "Chimping" is OK. When experimenting, it's the only way to know if what you did worked
- You may never get another chance for these images, so make sure you got it!

### Recommendations

· Learn to shoot in MANUAL, then experiment!

If shooting in auto exposure modes:

- Use "P", not AUTO on exposure dial
- Learn to use SHUTTER & APERTURE PRIORITY
- Understand limits of PRE-PROGRAMMED MODES
- Take multiple shots with different settings