



# the *Viewfinder*

the Newsletter of the Syosset Camera Club

Volume 33 Number 10 June 2004

## **PFLI Leonard Victor Competition**

The annual Leonard Victor Competition will be held at the Old Bethpage Restoration on June 11<sup>th</sup> at 8 pm. You may enter up to 5 images in each category that you scored at least 21 points during the 2003-2004 Season. There are no entry forms to fill out, just bring your prints or slides the night of the competition. Three non-PFLI judges will select the top 3 images in each of the 6 competition categories and a special plaque will be awarded to the 18 winners at Honors Night in the fall.

## **Camera Basics**

Whether you are using a digital, film, or point and shoot camera of either variety, the basics of exposure are the same. The variables are shutter speed, lens aperture (f-stop), and film speed or sensor sensitivity. Exposure is the cumulative effect of light on a photosensitive surface. It is controlled by a combination of shutter speed and lens opening. Let's start by understanding how each variable operates.

**The shutter-** the shutter is like a curtain that keeps light out of the camera except during exposure. When a picture is taken, the shutter opens for a specified period of time measured in fractions of a second to seconds for 'time' exposures. As a generalization, interchangeable lens SLR cameras have focal plane shutters. This means that the shutter is like a curtain that opens and closes in front of the film. Other cameras generally use a "leaf" type shutter between the elements of the lens.

**The diaphragm-** an 'iris diaphragm' controls the size of the lens opening just like the iris of the human eye controls pupil size. That is, it reduces the diameter of the lens. When the lens is "wide open," the diaphragm has no effect. As it closes, the quantity of light that can pass through the lens per unit of time is reduced. Lens openings (apertures) are measured by 'f-stops'. An f-stop is a number that indicates the ratio of focal length of the lens to its diameter. The following is the order of f-stops marked on a typical 50 mm lens that has a maximum opening of f 1.4.

**1.4 2.0 2.8 4 5.6 8 11 16 22**

*Note: The complexity and design considerations of modern zoom lenses make lenses with openings greater than f 4 somewhat exotic and very expensive. f 1.4 and f1.2 lenses were common in the past and made available light photography more commonplace in the past than now.*

Until you understand the basis of this system, the numbers may appear arbitrary. For now, take my word for it- they make sense. As you go up the scale, each number represents a lens opening that lets in ½ the amount light of the previous number. For example, when you go from f 1.4 to f 2.0, the amount of light admitted is halved. When you go from f 1.4 to f 4, you have gone through 3 stops, Therefore, the exposure is reduced by a factor of 8 (2,4,8).

It makes sense that the amount of light that passes through the aperture is directly proportional to the area of the opening. f-stops are related to the area the lens opening which in turn is related to diameter by a formula you learned in high school math.

$$A = \pi \left[ \frac{d}{2} \right]^2$$

Using our 50 mm lens example, at  $f 2$  the diameter of the lens is  $50/2 = 25$  mm. The area of a 25 mm circle is  $500 \text{ mm}^2$ . At  $f 2.8$  the diameter is  $50 \text{ mm}/2.8 = 17.9$  mm and the area is  $250 \text{ mm}^2$ . Eureka! That explains the seemingly arcane numerical relationship. When we changed the lens opening by a one  $f$ -stop higher number, the area of the lens opening was halved. You can think of it as a bucket of water with a hole in the bottom. Regardless of the size of the hole, each time you double the area of the hole, the quantity of water flowing through it will double.

The important thing to understand is the doubling relationship. As you double shutter speed, you must increase the lens opening by 1  $f$ -stop to maintain the same exposure. In other words,  $1/10 \text{ sec. @ } f 22 = 1/20 \text{ sec @ } f 16 = 1/40 \text{ sec @ } f 11 = 1/80 \text{ sec @ } f 8 = 1/160 \text{ sec @ } f 5.6$  etc.. in practice, with mechanical shutters, we round off the shutter speeds to the commonly marked values such as  $1/125 \text{ sec}$ ,  $1/250 \text{ sec}$  and so on. Cameras with electronically controlled shutters will frequently have intermediate shutter speeds.

Aside from controlling the amount of light entering the camera, lens openings have an effect on the distance between the nearest and farthest objects from the camera that are "in focus." This phenomenon is called "depth of field," which is dependent upon three factors:

1. Focal length- the longer the focal length, the shallower the depth of field.
2.  $f$ -stop- The wider the lens opening (smaller  $f$ -stop) the shallower the depth of field.
3. Lens to subject distance- the closer the subject the shallower the depth of field.

Because the plane of critical focus can be controlled, depth of field is an important creative tool. It allows us to make backgrounds appear "soft" and non-distracting when photographing things at close range such as in portraits and macro photography. Conversely, when we want everything to be in sharp focus, we must use a small (larger  $f$ -stop number) lens opening.

SLRs have a mechanism that keeps the diaphragm wide open during focusing and light measurement, and closes it to the pre-set opening during the exposure. This is to aide in focusing and composure. The 'stop-down preview' control on high-end models, allows you to view the scene at the set  $f$ -stop, so that you can estimate the depth of field visually.

Hopefully, this article has clarified some of the mystery behind camera nomenclature. Even if you have a point and shoot camera that does not allow manual settings, an understanding of what the camera can do will help you make photographs of greater impact.

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## Camcorder

*by Carol Goldstein*

This take is making me seasick.  
Was that a picture of your shoe?  
"You'll have to pan much slower!"  
Hold the camera steady too!  
That zoom-in of your mother is  
more than I wanted to see.  
Next time we go out on a shoot,  
Leave the camcorder to me!

## Annual Dinner

The Annual Dinner at the  
Milleridge Inn will start with  
D'Oeuvres at 6:30 pm.

The menu will be:

*Hors d'oeuvre*

*Soup Du Jour*

*Mixed Green Salad*

*Choice of entree*

*Roast Prime Rib of Beef*

*Grilled Fillet of Salmon with Pommery*

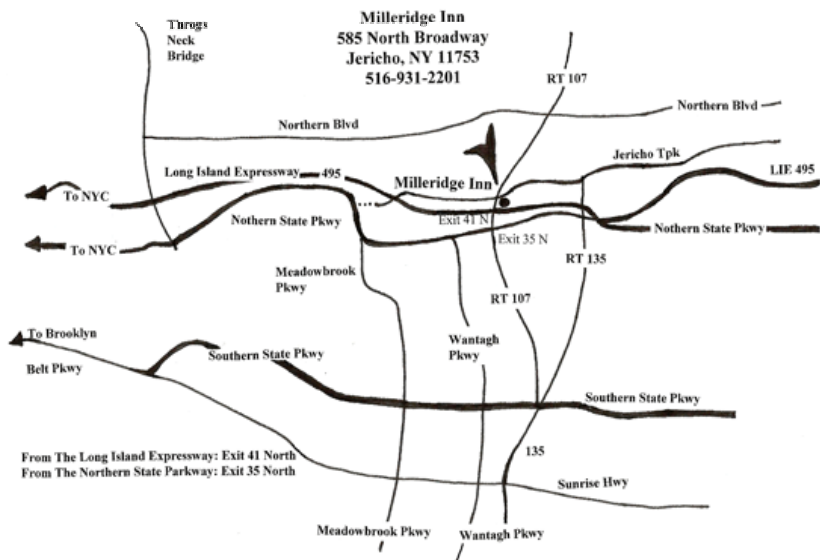
*Mustard Sauce*

*Roast L.I. Duckling A' Lorange*

*Potato and vegetable Du Jour*

*Milleridge Cheesecake*

*Coffee, Tea, & Decaf*



## April Theme Competition Results

### “Textures”

Judged by Erich Lohse

#### Black & White Prints “A”

Print Of The Month- Barry Goldstein

Eight- Moshe Markewitz

#### Black & White Prints “B”

Print Of The Month- Maylan Monahan

Nine- Bill Schmidt

#### Color Prints Class “A”

Print Of The Month- Carole Greenberg

Nine- Alan Agdern

Eight- Sy Roth

#### Color Prints Class “B”

Print Of The Month- Alan Ross

Eight- Barry Goldstein, Ira Scheinerman, Judy Ruder-  
man

#### Color Slides Class “A”

Slide Of The Month- None

#### Color Slides Class “B”

Slide of the Month- None

## May Competition Results

Judged by Art Donnelly

#### Black & White Prints “A”

Print Of The Month- **Maylan Monahan**

Nine- Sarah Kleinman, Alan Ross

Eight- Bill Schmidt, Jerome Sax

#### Black & White Prints “B”

Print Of The Month- **Maylan Monahan**

Nine- Bill Schmidt

#### Color Prints Class “A”

Print Of The Month- **Clem Kleinmann**

Nine- Gerald Harrison

Eight- Alan Agdern, Sy Roth

#### Color Prints Class “B”

Print Of The Month- **Ira Scheinerman**

Nine- Bill Schmidt, Aileen Harrison

Eight- Barry Goldstein, Carol Goldstein, Peter  
Metzger, Jerome Sax, Ira Sunshine, Linda Volin

#### Color Slides Class “A”

Slide Of The Month- Stan Rothman

Nine- Ramesh Patwa

Eight- Annette Fox

#### Color Slides Class “B”

Slide of the Month- Maylan Monahan

Eight- Linda Volin

## High Average Award Winners, 2003-04 Season

Category	First Place	Second Place	Third Place
Color Slides A	Ramesh Patwa	Stan Rothman	Orrin Edwards
Color Slides B	Maylan Monahan	None	None
Black & White A	Alan Agdern	Barry Goldstein	Orrin Edwards
Black & White B	Bill Schmidt	Bill Bowie	Jerome Sax
Color Prints A	Alan Agdern	Gerald Harrison	Sy Roth
Color Prints B	Bill Schmidt	Jerome Sax	Aileen Harrison

## Year-End Competition Results

Category	First Place	Second Place	Third Place
Color Slides A	Eugene Fox	Ramesh Patwa	Stan Rothman
Color Slides B	Maylan Monahan	Barry Goldstein	Linda Volin
Black & White A	Orrin Edwards	Alan Agdern	Barry Goldstein
Black & White B	Bill Schmidt	Bill Schmidt	Maylan Monahan
Color Prints A	Alan Agdern	Gerald Harrison	Alan Agdern
Color Prints B	Bill Schmidt	Aileen Harrison	Bill Schmidt

## New for the 2004-2005 Season

At meeting of the Programs Committee chaired by Jerry Sax, it was decided to improve the educational component of our meetings by adding two pre-competition critique meetings. These critiques will take place two weeks before a regular competition, during which members will have the opportunity of presenting un-mounted prints for constructive criticism by a panel of experts. This will provide an opportunity to improve the photo prior to the competition. The first such meeting will take place in September, instead of the traditional "What I Did Last Summer" competition. (See the Meeting Schedule on the last page).

There will also be presentations by members on several topics which may include Photoshop, composition, close ups, lighting, filters and Zoo Photography. If you have a suggestion for other topics, be sure to respond to the email when you get it, or contact Jerry Sax.

### BIRDING WITH THE HARRISONS

*Aileen Harrison*

We got up early  
 The sun was bright  
 We packed our gear  
 Expecting quite a sight  
 We went to where  
 The birds should bunch  
 We had tripods  
 Bird feeder, seeds and lunch  
 Only one bird  
 And we came so far  
 But it didn't matter  
 We left the cameras in the car.

It was also decided to hold at least two theme competitions. Unless input from the membership changes the selection of topics, they will be "Children" and "Trees."

## Digital Printing

One of the advantages of digital cameras is the elimination of film and the cost of its development. Inkjet printing on photo quality paper can be expensive however. Let's assume that you can make 25 high quality 8x10s from a set of inkjet cartridges. At a low price of \$42.00 for a set, that's \$1.68 for ink. Add \$0.80 for a sheet of

Vendor	4x6	5x7	8x10	11x14	12x18
Adorama Prolab	0.29	0.69	2.99	4.99	9.99
BJ's (kiosk)			4.99		
Bonus Print	0.18	0.29	1.99		
Costco	0.19	0.69	1.99	2.99	
Dot Photo	0.29	0.95	2.95	5.99	9.99
EZ Prints	0.29	0.85	2.45	3.95	10.10
Hi Tech (prices include 20% SCC disc.)	0.24	0.80	1.60	4.80	5.60
Ofoto	0.29	0.99	3.99		17.99
Shutterfly	0.39	0.99	3.99	7.99	
Snapfish	0.25	0.95	3.79		
Target	0.29		4.99		
Walgreen (Kiosk)			6.99		

8.5 x 11 paper and we're up to \$2.48 per print, assuming you get it right the first time.

The following current prices are based on an order of a single print on glossy photo paper. All of the vendors are available on-line. Postage where applicable, is not included. This chart is not intended to be all-inclusive, but is representative of the prices out there at the time of my survey.

**So should you send it out or do it yourself?** Part of the answer revolves around how much gratification you get by controlling the process from start to finish. I would submit however, that digital printing is not analogous to darkroom printing. There is very little control of the process at the printer level. You either have the process optimized or you don't. Image manipulation is done either in the camera through custom settings and exposure, or in the computer using software.

**Direct Printing-** If you prefer to do your own printing at home and don't have or wish to use a computer, there are a number of ways to do it. Some printers have a slot where you can insert the camera's memory card. Kodak offers a printer with a "dock" that accepts the camera, eliminating the need to remove the memory card or to connect a cable. Other systems allow connection of the camera to a printer via a USB connection. If you want the convenience of making 4x6 prints at home and sending the rest out, you can get a dedicated 4x6 photo printer that connects directly to your camera. Retail outlets like CVS, Walgreen's and others, offer digital print kiosks that accept your camera's card. The first thing to do is check your user's manual to see if there is a setting for direct printing. If there is, use it. It will optimize your images to correspond with the printer's color gamut and other characteristics.

## SCC PFLI Top Competition Scores for April

Category	Member	Points	Title
Color Slides Class A	Stan Rothman	22	Looking Up
	Annette Fox	22	Early Morning Skier
	Ramesh Patwah	21	Tahiti
Color Prints Class A	Alan Agdern	24	Flower #10
	Sy Roth	23	Sunrise at the Triboro Bridge
	Gerald Harrison	21	Trio of Roses
Color Prints Class B	Jerry Sax	23	Iquaza Falls
	Ed Starling	22	Mrs. Binoculars
	Bill Schmidt	22	Tuscon Doorway
	Alan Ross	21	Mrs. Peacock
	Linda Volin	21	Old Fashioned Girl
Black & White Class B	Bill Schmidt	22	Table and Chairs

## Name the Camera

**Last month's mystery camera-** Orrin Edwards and Phil Schaming of Sparta, NJ got it right. Last month's Mystery Camera is a Kodak Pony 135. As noted, there was also an 828 roll film version of the camera. The Pony was not a great camera by any standard but provided the feel and spontaneity of 35 mm photography at a time (1950-1954) when German and Japanese 35 mm cameras were beyond the resources of many young amateurs.

**This month's mystery camera-** Manufactured in 1976, this camera was the first 35mm SLR camera to be controlled solely via a built-in Central Processing Unit. The camera which is shown in the two photos to the right, operates in shutter priority and manual modes. It is small, lightweight, 'solid' and easy to use. A 6-volt battery powers the camera. Over 5 million of this famous maker's model were sold worldwide. If you



think you know the answers, contact [barryg@gbroline.com](mailto:barryg@gbroline.com).

**W.S.C.C. Aileen Harrison**

The D.S.C.C. (Dreaded Syosset Camera Club) has broken the chain. As of last Sunday we became the W.S.C.C. (Welcome Syosset Camera Club). We actually went to three different locations and weren't kicked off or chased by any. We met at 5:00 am at the diner. The motley crew consisted of Gerry and Aileen Harrison, Linda and Stanley Volin, Carol Greenberg, Ira Sunshine, Ed Starling, Moshe Markewitz, Alan Agdern, Peter Metzger, and Ira Schneider man. First Stop was Hoboken, New Jersey to watch the sunrise behind the Manhattan skyline. Next was Liberty Park to see the back of the Statue of Liberty and Ellis Island. We figured if our luck was so good and nobody threw us out yet, we would go for broke. So, off we went to the Brooklyn Bridge. There was no parking to be had on the Manhattan side so we crossed over to Brooklyn. I think we got the best parking spot, which was just one block from the steps to the bridge. We then proceeded to actually walk across the bridge and back with CAMERAS. We all thought this was a "Real Cool Field Trip" and all had a good time.

## Digital Camera List

If you have a question about your camera, the best person to ask first may be on this list. If you are not on the list yet, or if you have upgraded, please send the information to the Viewfinder ([barryg@gbroline.com](mailto:barryg@gbroline.com)).

Camera	Member's Name	Contact
Canon A60	Bill Schmidt	ah100m@juno.com
Canon D60	Gerry Harrison	gharriso@optonline.net
Canon D60	Sy Roth	mollyp@optonline.net
Canon Digital Rebel	Aileen Harrison	aileenharrison@hotmail.com
Canon G2	Ed Starling	<a href="mailto:edstar@optonline.net">edstar@optonline.net</a>
Canon G2	Ramesh Patwa	rameshpatwa@hotmail.com
Minolta Dimage 7i	Irv Melnick	irvmelnick@juno.com
Nikon 8700	Frank Iraggi	fotoguy@optonline.net
Nikon Coolpix 4500	Alan Ross	regguy8@optonline.net
Nikon Coolpix 990	Carol Goldstein	barryg@gbr.com
Nikon Coolpix 995	Carol Greenberg	<a href="mailto:toad.brook@juno.com">toad.brook@juno.com</a>
Nikon D100	Frank Iraggi	fotoguy@optonline.net
Nikon D70	Barry Goldstein	barryg@gbroline.com
Nikon D70	Peter Metzger	usmetz@optonline.net
Nikon D70	Richard Nussbaum	rnussbau@optonline.net
Olympus 750	Gerry Harrison	gharriso@optonline.net
Olympus C50 Zoom	Stan Rothman	stanr@optonline.net
Olympus C750 Ultra Zoom	Moshe Markewitz	moshe-makewi@optonline.net

## Highlights of Photo History

330 BC- Aristotle describes the Camera Obscura

1600- The pinhole camera is invented by Alhazen

1609- Kepler suggests the use of a lens to improve the image projected by the Camera Obscura

1827- Joseph Nicéphore Niépce makes the first fixed photographic image (8 hr. exposure)

1839- Sir John Herschel invents the word "Photography"

1840- William Henry Fox Talbot invents the process to use a negative to make multiple prints

1844- Louis Daguerre reduced exposure time to less than 30 minutes. (Developed the Daguerreotype in 1839)

1850- The Hyalotype, precursor

to the "Magic Lantern" is developed

1856- Tintype invented by Hamilton Smith

1887- Adolph Miethe and Johannes Gaedicke invent flash powder

1888- Kodak markets the first box camera

1889- Eastman uses flexible cellulose nitrate film base

- 1906- Wratten & Mees invent the panchromatic plate
- 1930- Johannes Ostermeier invents the flashbulb, the "Vacublitz," GE markets it as the "Sashalite"
- 1935- Kodachrome introduced (remains the most stable color film)
- 1965- NASA uses the first digital camera
- 1972- Texas Instruments patented a film-less camera
- 1981- Sony releases Mavica camera
- 1986- Fuji introduces the disposable camera
- 1986- Kodak scientists invent the first megapixel sensor (1.4 MP)
- 1990- Kodak markets Photo CD and color standard for digital environment
- 1991- Kodak releases a Nikon F-3 body with a 1.3 megapixel sensor
- 2004- Three SCC photographers take the same picture**



## What is a Mired?

Mired is an adjective that means 'entangled' or 'hindered', but a mired or "micro reciprocal degrees" in photographic terms is the reciprocal of degrees Kelvin multiplied by 1- million (a more modern notation is MK-1), So who cares? Mireds, or more commonly decamireds (mired x 10) are used as a measurement standard for converting light from one color temperature to another using color conversion filters. The older system, which is still in use was an innovation of Frederick Wratten. It is an arbitrarily numbered series of filters. Kodak bought the Wratten Company in 1912, and continued manufacturing filters under the Wratten name. The Wratten filter numbers are:

2 through 15 Pale to deep yellow	85N3 through 85C Warming (amber)
16 through 32 Orange, red, magenta	81 through 81D Warming (lt. yellow) bal.
34 through 61 Violet, blue, green	82 through 82C Cooling (lt. blue) bal.
80A through 80D Cooling (blue)	87 through 106 Misc.

Decamired filters available in red and a blue series are designed to easily handle color temperature variations. The advantaged of decamired filters is that they can be numerically combined to create the required correction. A filter that produces a color temperature change of 1,000 K at 3,4000 K will produce a change of 10,000 K at 100,000 K. This is because the filters are designed to relate to a visual scale of color. The response of the human eye to color is more closely related to mireds than to degrees Kelvin. A color change of 1,000 K at the higher temperature would hardly be noticed. To see this more clearly, note the following changes in color temperature.

From		To		Difference	
K <sup>o</sup>	Mired	K <sup>o</sup>	Mired	K <sup>o</sup>	Mired
9,100	110	5,900	170	<b>3,200</b>	<b>60</b>
4,350	230	3,450	290	<b>9,00</b>	<b>60</b>
4,000	250	3,200	310	<b>8,00</b>	<b>60</b>

Note that although the magnitude of difference in degrees Kelvin varies as the range changes, the filtration difference in mireds is the same. In use, the mired value of the light source is subtracted from that of the film. If the result is positive, you use a warming filter (reddish); if negative, a cooling filter (bluish). These numbers are additive; meaning that a pair of R3's produces an R6. An R6 plus a B6 cancel each other out to produce a neutral gray. Now isn't that better than the Wratten System?

## Bulletin Board

**PhotoPlus Expo and Conference 2004**, October 21-23, 2004, Jacob Javits Convention Center- **Regis-ter via website before september 30, for free registration.**

**“Print and Photograph Portfolios”** 6/1-7/29/04, Emily Lowe Gallery, Lowe Hall, Hofstra University

**International Center of Photography**, “Only Skin Deep; Changing Visions of the American Self.” 1133 Ave of the Americas at 43rd St. (212) 768-4682. Adm. \$8, Students/Senior \$6.

**JoeDigitalPhoto, Introduction to Digital Photography lectures**, Weds, 6/23, 7:00pm-8:30pm, West Islip Public Library. Thurs, 12/2/04, Brightwaters Public Library. These seminars are geared toward the beginner digital photography user. For additional information, contact the above public libraries. The website is [www.joedigitalphoto.com](http://www.joedigitalphoto.com). *Greg Lyon a.k.a. JoeDigitalPhoto is a new member of the Syosset Camera Club.*

**Nikon School of Photography**, New York City, 5/15 or 5/16, 2004 Digital 101, 6/12, 2004, Digital 201, 6/13, 2004, See [www.nikonschool.com](http://www.nikonschool.com) for details

**Between Past and Future: New Photography and Video from China**, New York Asia Society and Museum, 725 Park Ave, 6/11-9/5, Tue - Sun, 11:00 am - 6:00 pm, Fri. until 9:00 pm. Closed Mon. and holidays. Adm. Included with museum adm. \$7 adults; \$5 students/senior citizens. Free adm. Fri., 6:00 pm - 9:00 pm, Phone: 212-517-ASIA

**Leonard Victor Competition**- June 11. See article on first page.

**Don't forget Sunday 8 am at the On Parade Diner**

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## 2004-2005 MEETING SCHEDULE

### August

05 Summer Board meeting

### September

09 Critique Program  
23 Competition  
30 Program

### October

07 Board Meeting  
14 Competition  
21 Program  
28 Program

### November

04 Competition  
11 Program  
18 Program

### December

02 Competition  
09 Program  
16 Program

### January

06 Board Meeting  
13 Competition

20 Program

27 Program

### February

10 Competition  
17 Program  
24 Program

### March

03 Board Meeting  
10 Competition  
17 Program  
24 Program

### April

14 Competition  
21 Program  
28 Program

### May

05 Board Meeting  
12 Competition  
19 Program  
26 EOY Competition

### June

17 Annual Dinner (Friday)