

# THE VISION

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YOUTH PHOTOGRAPHIC  
SOCIETY ®  
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June 2017

Vol 47/06

## UPCOMING EVENTS

**June 3, Sat 6:30 PM**

Member Photo Appreciation –  
June 2017

**June 10, Sat 6:30 PM**

YPS Open House 02-17

**June 17, Sat 6:30 PM**

“Bellary Wildtrails” A Slideshow  
by Dr. S K Arun.

**June 24, Sat 6:30 PM**

YPS Open House 03-17

## FROM EDITOR'S DESK

It was a very fruitful month of May, where we had lot of programmes for members, and discussions on various topics of photography. Now we have decided to meet on ALL Saturdays. And 2nd and 4th Saturdays are earmarked as YPS Open House meant only for discussion on pictures related to salons and other topics.

From May 2017, we have stopped printing Newsletter. We were sending printed Newsletter to a handful of people who had requested a hard copy. Since we found it difficult to sustain production of two versions of the Newsletter, we decided to suspend printing and produce only digital version of the Newsletter which will be distributed through YPS website and emails. Henceforth you please refer to YPS website for any information about YPS programmes.

We are planning to open a section for members to sell and buy used photography equipment, which will be open only for YPS members. This is under development. Please wait for the announcement.

Also, members, feel free to suggest some programmes, if found it relevant and doable, we will arrange it.

The June month, will have lots of monsoon clouds, which will be very good for travel photography. Plan your destinations and make some dramatic pictures.

## THE MONTH THAT WAS



[YPS Meet | May 6 | State Youth Centre](#)

[Slideshow by Mr. Narasimhamurthy](#)

[Photography in Police Work](#)



[YPS Meet | May 20 | State Youth Centre](#)

[At the Heart of Western Ghats – Slideshow by Mr. Uday Hegde](#)

[Total Experience of Western Ghats](#)

YPS INTERNATIONAL  
DIGITAL SALON 2017

is now OPEN



YPS 10<sup>th</sup> International Digital Salon offers international recognitions and challenging competition. Participate today.

## UPCOMING EVENTS

### June 3 – Member Photo Appreciation June 2017

The last Member Photo Appreciation was held on April 2, 2017 and it was much appreciated by the Members. June 2017 will start with a Member Photo Appreciation program on June 3rd. [More Details...](#)

### June 17 – Bellary Wildtrails – Slideshow by Dr. S K Arun

On June 17th, we will feature Dr. Arun SK from Bellary. He is traveling from Bellary to speak to the YPS members and photo enthusiasts. Dr. Arun makes stunning pictures of wildlife from all over the country. His pictures from Bellary, especially from Daroji Bear Sanctuary are very special. [More Details...](#)

## YPS OPEN HOUSE

Conversation is the essence of learning. Collective wisdom of the group is magnitudes larger than the wisdom of individuals in the group. Conversation also networks people and builds relationships. Photographers are no exception to this general behaviour. YPS Open House program is aimed at addressing these needs. YPS Open House is a free-format group discussion on any matters related to photography. YPS Open House is where experts and novices meet as equals to hold meaningful collective conversations that enhances the learning of everyone.

YPS Open House programs will be held on 2<sup>nd</sup> and 4<sup>th</sup> Saturdays of every month. Please check your website for details. Bring your photographs or review. [More Details...](#)

## YPS SALONS

### Karnataka Tourism Monthly Photo Contest –Karnataka City-scapes – Last Date June 30, 2017

The results of the May 2017 contest have been announced. Please check [YPS Website](#) for details. Our hearty congratulations to the winners. The theme for June 2017 Photo Contest is “Karnataka City-scapes”. Please check the [Contest Website](#) and participate. Submit your Pictures! Shoot to Fame!

### YPS International Digital Salon 2017

The 10<sup>th</sup> International Digital Salon 2017 is now open for participation. The Salon enjoys patronage from PSA, FIAP and FIP and will be an All-Digital Salon open to anyone from the World. There are more than 70 prizes to be won. Please await the announcement on the YPS Website.

## ANNOUNCEMENT

The window or renewal of Individual Membership for 2017-18 is now closed. Members who want to renew membership should join as a new member. [More Details...](#)

## YPS PHOTO SHARE

Please submit your pictures on YPS Photo Share and also comment on pictures. This is the best way to collectively learn. [More Details...](#)

### Youth Photographic Society ®

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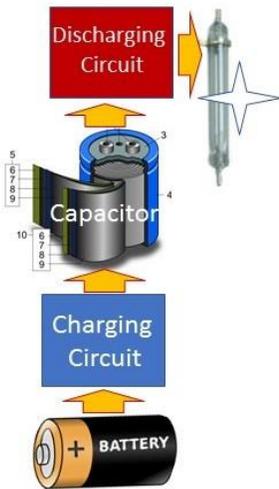
## YPS DISCUSSION FORUM

### How “Fast” is your Flash

We generally tend to think that using Flash we can freeze subjects. It is generally true. But let us explore this statement further. Let us start by understanding the briefest moment the camera can capture without flash. With DSLR cameras, it can be as low as  $1/8000^{\text{th}}$  of a second. We also should know that if we use flash, the shutter speed is forced down to  $1/250^{\text{th}}$  of a second in DSLRs, called the X-sync speed. The question is, if the flash can produce really fast light, why are the cameras bringing the shutter speed down to  $1/250^{\text{th}}$  of a second when we use Flash? That should make you think, as it did for me.

The other event that made me think was my experiments with Water Sculpture photography. Water Drops move fast and my initial pictures of Water Drops falling into a tank of water, taken using Flash, were far from being sharp. This was the second trigger for me to understand the speed of Flash.

When we have a question, we turn to Google. I am sure a million wise people have already faced it. Let us first understand, in simple terms, how a flash works. It uses a “Capacitor” to hold small currents at high voltages required to fire the Xenon flash lamp. The capacitor is charged to a high voltage by a charging circuit drawing power from the batteries we insert. It takes a few seconds to charge the capacitor making event photographers tense. When you click a picture, the discharging circuit is triggered and that sends power from the capacitor to the xenon lamp making the flash to fire.



The old flashes did not have sophisticated discharge units. They acted like pins applied to an inflated balloon which caused the capacitor to discharge all the power through the Xenon Bulb. Hence those flashes produced same light output every time, represented as its “Guide Number” or GN, an information that we used in the past to set the aperture for proper exposure.

The modern flashes can control the amount of light produced by the xenon lamp, like a tap attached to the mouth of the inflated balloon. They control the output by controlling the duration for which power is sent to the lamp from the capacitor.

So much for the understanding of flash. The question that needs to be answered is “What would be the typical duration that it takes to discharge all the power from the capacitor to the Xenon bulb?”. It takes approximately  $1/300^{\text{th}}$  of a second to discharge the entire capacitor into the bulb in Canon 430EXII producing its full power! For Nikon lovers, SB-700 takes the same amount of time for a full power discharge. In fact, most of the flashes operate in this range. Now that is not fast enough! If it is hard to believe you may look at some of these sites:

- <http://gock.net/blog/2012/01/flash-durations-small-strobes/>
- <https://community.usa.canon.com/t5/Speedlites/What-are-the-flash-durations-at-the-various-power-levels-for-the/td-p/175540>

The camera provides a faster, much faster, shutter than the flash! Fortunately, modern flashes provide the ability to control the power output by controlling the duration of the flash. Many flashes provide menu options on the back-panel of the flash to manually set the flash output. Depending on the flash model you may be able to change the flash output from 1/1, which is full power to 1/128, the lowest power. This means if you set the power to 1/16, the duration of the flash comes down to a decent  $1/4800^{\text{th}}$  of a second ( $1/300 * 1/16$ ), now matching the SLR. If you set the power to 1/128, your flash duration drops down to a superfast  $1/38400$  of a second, something the mechanical shutters will have very tough time to match. Of course, the amount of illumination produced also drops to a seriously low  $1/128^{\text{th}}$  of a level, good enough, perhaps only for macro!

There are very few types of photography where you need to be aware of this. But next time you are trying to “freeze” a bird or a bee in flight using flash, keep this in mind. Flashes are immensely slower than we think. Add your suggestions and ideas based on your personal experience on the [Topic on YPS Discussion Forum](#) – Murali Santhanam, LM-193.