



# Crystal Lake Camera Club Newsletter

Serving Crystal Lake, IL and surrounding communities since 1980

August, 2016

Year 2016, Issue 8

## CLCC Links

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## AUGUST SEASONAL IMAGE

Congratulations to Roger Willingham whose below image was selected as the August seasonal image of the month. It was taken at the 2015 McHenry County Fair in August, 2015. See page 4 for the other two of the set of three things he avoided.



Things I Did Not Do at the County Fair (1 of 3)

Roger Willingham

## 2016 CLCC Officers

### Co-Presidents :

Al Popp

Chuck Rasmussen

### Vice President : Peter Pelke II

### Treasurer : Grace Moline

### Secretary : Jim Petersen

## CLCC Support Staff

### Newsletter Editor: Rich Bickham

### Webmaster: Sandy Wittman

### CACCA Delegate: Lyle Anderson

### CACCA Delegate: Royal Pitchford

### Advisor: David Jilek

### Facebook Admin: Scott Migaldi

Assistant: Alexis Cooper

Assistant: Margie Paffrath

### Membership: Mariela Ryan

### Publicity: Roger Willingham

### Competition: Jeff Chemelewski

### Small Groups: Maureen Harris

### Refreshments: Larry Swanson

### Outings: Sandy Wittman

### Librarian: Bob Cairone

Your photograph can appear here next month. See the submission procedure in the "Opportunities" section on page 10. ◇

## PRESIDENTS' COLUMN

Since my injury in early June, I instantly realized my ability to get around was going to be non-existent for a few months. So I looked around for things I could do while hobbling around the house. As I sat at my computer, looking at the home screen, I saw a ton of folders with recent and older photographs staring back at me. Well, I thought, here is the perfect time for me to get all this organized and cull the images I don't really need. Save space on the backup drives too. I mean, do I really need a JPG and RAW file of every shot my camera takes? I have my camera set up to do just that.

Now I have to tell you, my computer photograph organization is fairly simple, but also very good. I learned a long time ago to make it that way for obvious reasons. Having thousands of photographs taken at multitudes of locations, they need attending to, and organizing them in a way that makes sense to me was paramount.

In the past I have talked to hundreds of photographers, and every one of us organizes our pictures in a different way. We all have our own system of stars, flags, color bumps, group folders or whatever we determine works for us to maintain the best organization for our photographs. And guess what? They all work. Sure, we all got to this place through trial and error. We have all lost valuable pictures because a drive crashed and there were no backups. It was, like everything in life, a harsh learning experience. How many times have you hit your thumb with a hammer? If more than once, you may want to hire someone, but after you hit your thumb that first time, you realized, very painfully, that you were never going to do that again. Most of us don't do it again. Same thing with losing multitudes of pictures because they were not backed up - awfully painful. I think I rested my head in my hands for a couple of very long, painful hours, internalizing the gravity of what just happened. The images were gone, and there was no remedy. That was tough to accept. As great as technology is, and as simple as cameras are to use today, when a drive crashes those pictures are gone forever.

See **President**, Page 2



## CACCA JUDGE "TRAINING"

The Chicago Area Camera Clubs Association (CACCA) has announced plans to offer "training" sessions for people that are existing or prospective judges for CACCA and/or CACCA member club competitions. The below excerpt from Bob Benson (CACCA Judges & Speakers Chairman) outlines the reasons and details of this initiative.

*"In an attempt to get more uniformity and understanding of judging within the CACCA clubs, CACCA is planning on offering "training" to all members who currently judge, or are interested in helping by becoming a judge on the CACCA Judges list. We will have at least two training sessions, one on the "south" side and one on the "north" side. Since the concept of certifying judges is elusive at this point, we will request that you attend so that you can be marked as having shown an interest in improving the judging experience within CACCA. We will have a sign in sheet, and any judge that is on the current CACCA judges list will have an asterisk by the name to indicate that they have attended this class. Attendance is not mandatory, and we will be offering this again in another area [geographic] soon. Scheduling of other training sessions will depend on attendance and suggestions for improvements.*

*The first class (to be repeated elsewhere in some form) will be held at the Foresters Camera Club location. (This is the location where CACCA used to meet.) Here are the particulars:*

*Palos United Methodist Church  
12101 S Harlem Avenue  
Palos Heights, IL 60463  
August 13 (Saturday) 10:00 a.m. - Noon "*

Contact Chuck Rasmussen ( [chuckr@camira.com](mailto:chuckr@camira.com) ) to register. ◇

## KNOW YOUR CLUB SUPPORT STAFF

**H**i. My name is *Rich Bickham* and I am the CLCC Newsletter Editor.



Elaine (my wife of 42 years, and an elementary school teacher for over 25 years) and I are both originally from the Chicago area and have lived in either Cary (presently) or Algonquin since 1977. We have two grown children, our daughter Jessica who works as a Forensic Scientist for a Ventura, CA firm, and our son Jason who works as an on-air radio personality at Z92, an FM rock station in Omaha, NE. In addition to photography, I enjoy reading and golfing.

I retired from Motorola (Schaumburg, IL) in 2007 after working there for 38 years as an Electrical Engineer (EE) in various product development groups and research labs. While at Motorola my work involved new product design and development, and technology development related to high power transmitters for public safety mobile and infrastructure two-way radios. I retired as an elected Fellow of Motorola. I graduated from the University of Illinois Chicago in 1969 and the Illinois Institute of Technology in 1979 with BSEE and MSEE degrees respectively. Given that background, regular readers of the newsletter may appreciate why some of my newsletter columns get a little technical at times.

I volunteered to be Editor of the newsletter in 2013 in response to then outgoing club President Lyle Anderson's challenge to club members to think about how they might contribute to the future success of the club. Having previously served for five years as a Board member and the newsletter Editor of the McHenry County Youth Orchestras (MCYO), for which my daughter played viola during her middle school and high school years, I decided that it was a good way I could contribute.

I got my first camera (a Kodak Brownie model with a built-in flash) as a gift in 1958, and drove my parents crazy taking candid B&W shots at home and around our Chicago neighborhood on the southwest side (some were rather embarrassing). In high school I experimented with my father's old bellows style camera (I think it used 620 film) and started reading photography magazines, but during my college years I had little time to devote to the hobby. In 1975 my wife and I bought our first 35mm SLR (a Yashica TL-Electro with a 50mm f/1.9 lens) prior to a going on a California coast vacation, and I got back to enjoying photography. I purchased a Tamron wide angle zoom lens (35-80mm) in 1988 for a trip to Yellowstone with the kids. After going through a Canon 24mm film SLR and a couple of point & shoot cameras (one film & one digital), on Christmas in 2010 my wife bought me a Nikon D5000 DSLR kit with a pair of Nikon lenses.

I was finally in the digital age with something other than a point & shoot camera and about a year later I joined the club to improve my photography skills. It is a decision I have never regretted. ◇

### President, from Page 1

At the July meeting *Ernie Hagenow* gave us a wonderful presentation on the history of drives, and the numerous ways to back up our work. I paid attention to what he presented to us, and determined I was in a good place regarding how I backup my computer and my photographs. What was interesting in his presentation was that he never said this is "HOW" to back up. And he was spot on with that advice. In my opinion, each of us has to develop an individual style that works for us.

Yes, I have gleaned ideas from discussing backing up with others, and some of their ideas impressed me enough to try those suggestions. However, the bottom line is simple. You have to create your own system, - one that works well for you. We all drive vehicles, and we all follow the same rules of the road, but every one of us drives differently. We all get to where we want to go (most of the time), but we all have our own technique for driving the vehicle. In the end, we all show up at our intended destination. We may ask for directions, and we may run into a detour and have to make changes. We may choose a more scenic route, or a more direct route. There are volumes of choices we can make to get where we want to go. There is no one specific determining factor that maintains we have to do it exactly a specific way.

The same process pertains to how you develop your photographic and computer backup plan. Just make sure you back those files up, and if you are in your vehicle and you want to back up, just give a little "Beep" first.

Chuck & AI ◇

## NEXT CLCC CLASS SCHEDULED FOR AUGUST

Club Vice President and Director of Education *Peter Pelke II* has put together another class for CLCC members. Details are shown below.

### LAYERS IN PHOTOSHOP ELEMENTS

#### Layers, Masks and Background Changes

Tuesday, August 9, 2016 7:00 p.m. - 9:00 p.m.  
Home State Bank - Community Room (Lower Level)  
611 S. Main Street. Crystal Lake, IL

Members Free - Guests \$25 (which includes 2016 membership)

Contact *Chuck Rasmussen* to register at [chuckr@camira.com](mailto:chuckr@camira.com) .

Questions? Call (847)-346-9957 .

Bring a laptop with Photoshop Elements 10 or higher installed, and a mouse.

## JULY CLUB MEETING PATRIOTISM

Club Co-President *Chuck Rasmussen* showed up in patriotic attire at the July 3 CLCC meeting. The picture below was taken by *Paul Litke*.



Chuck is a former United States Marine, and he lead the attendees in the Pledge of Allegiance to kick off the meeting. ◇



# **ICONIC PHOTO OF AN AUGUST DAY IN HISTORY**

Rich Bickham

Since this is a Summer Olympics year, I dug back into Olympic history for this month's photograph. The modern Summer Games have been held every four years since 1896 with the exception of the war years 1916, 1940 and 1944. Each of the games had its individual standout athletes, but one comes to mind as perhaps the most iconic of the last century. His name is Jesse Owens, and he competed in track and field events in the 1936 Summer Games in Berlin, Germany.

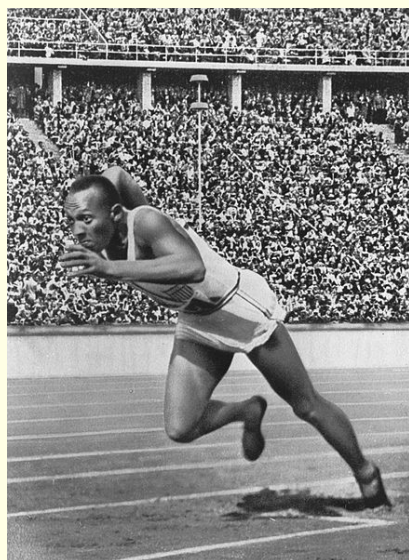
Owens was an African-American who was born in Alabama in 1913, and raised by poor parents along with his nine siblings. When Owens was nine years old the family moved to Cleveland, OH. As a young boy he developed a love of running.

*"I always loved running – it was something you could do by yourself and under your own power. You could go in any direction, fast or slow as you wanted, fighting the wind if you felt like it, seeking out new sights just on the strength of your feet and the courage of your lungs."*

He was mentored by his junior high school track coach *Charles Riley*. While in high school in 1933 he gained national attention when he tied the world record (then 9.4 seconds) in the 100 yard dash and long-jumped 24' - 9.25" ( world record at the time was 26' - 2") at the National High School Championship in Chicago, IL. While attending Ohio State University he won eight individual NCAA championships over two years in track and field events. In the 1935 championships he set three world records and tied a fourth over a span of 45 minutes!

The Summer Olympics of 1936 was held in Berlin, Germany (about three years prior to the start of World War II). *Adolph Hitler*, then the Chancellor of Germany, intended to use the Summer Games to showcase the Nazi Party, and to show the world how the Aryan race was far superior to all others.

Owens was on the United States team, and came ready to perform. He won four gold medals - the 100 and 200 meter sprint, the long jump, and as a part of the 4x100 meter relay (which set a world record). The photograph on the right shows Owens just after the starting gun of the 200 meter sprint on August 5, 1936 – it was taken by an unknown German photographer.



Considering black athletes inferior, Hitler was very annoyed at Owens' performance, according to Nazi Party member and one of Hitler's "inner circle", *Albert Speer*. Hitler left the stadium before the medal ceremony for the 100 meter sprint on August 3, never publically acknowledging Owens for any of his victories. While much controversy ensued over whether Hitler did or did not snub Owens (some say a private handshake or wave occurred), Owens never made a big deal about it (he is quoted as saying he did not feel snubbed, and pointed out in October of 1936 that then U.S. President Franklin Roosevelt never offered a congratulatory communication either). His performances spoke for themselves, and the crowds showed their appreciation of, and fascination with the black athlete from America.

After the Summer Games, back in the U.S., life became more 'normal' for Owens. He continued to suffer from the same racial discrimination that black citizens of that era experienced. Unbelievably (in this day and age) he was prohibited from entering many athletic events. He did become involved in the Negro Baseball league and horse racing for some time, then in 1966 he was found guilty of tax evasion and had to declare bankruptcy. Ultimately the government appointed him a good will ambassador and he became a spokesperson for several organizations including the U.S. Olympic Committee.

Owens is generally considered to be the greatest athlete in track and field history.

A heavy smoker, he died from lung cancer in 1980, and is buried in Oak Woods Cemetery on the southeast side of Chicago, IL. ♦



Jim did not receive a question this month. 😞 ♦

## **ASK A PRO**

Jim Pierce

Send your questions to:

[downtownprophoto@sbcglobal.net](mailto:downtownprophoto@sbcglobal.net)

Please do not submit model-specific questions about cameras.

## **TIP OF THE MONTH**

Submitted by *Jim Petersen*

### **LIGHTROOM AND PHOTOSHOP:**

#### **3 TIPS TO HELP AVOID OVER-PROCESSING PHOTOS**

- 1) Step away for a while.
- 2) Create a small thumbnail.
- 3) Start sliders at zero.

Why are these helpful? See the below link to *Matt Kloskowski's* website which elaborates on these tips to keep your photo editing under control:

<http://mattk.com/lightroom-and-photoshop-3-tips-to-help-avoid-over-processing-photos/> .

Submitted by *Sandy Wittman*

### **FREEDOM TO FAIL**

*"When we focus on trying to follow all the rules for making the 'perfect' photo, it's easy to forget that failing is also part of the creative process. We need to remember that we're allowed to make mistakes. Becoming okay with the possibility of doing something wrong frees us to take risks and to stop worrying about what others think. Besides, what's embarrassing about failing? At least we will have tried. And maybe in the process we'll discover our own personal style."*

Guy Langevin , Editor, Photolife Magazine - June/July, 2016 ♦

## **LINKS OF THE MONTH**

Submitted by *Sandy Wittman*

Chicagoland nature photographer *Mike MacDonald* has a new website called "Chicago Nature Now" at

<http://chicagounaturenow.com/> .

A free subscription is available which will provide updates on interesting places to photograph in the Chicago area.

Submitted by *Jim Petersen*

Check out this website for some beautiful shots of buildings that undergo incredible visual transformations as day turns to night. Daylight and evening photographs of each building are shown for comparison (for Windows, just left click once on each photo to toggle between night & day).

<http://www.ba-bamail.com/content.aspx?emailid=14764>

Money well spent, don't you think? ♦

## 2015 McHENRY COUNTY FAIR PHOTOS

Roger Willingham

In addition to my photo on the front page, here are photos of the other two rides I avoided.



Things I Did Not Do at the County Fair (2 of 3)

Roger Willingham



Things I Did Not Do at the County Fair (3 of 3)

Roger Willingham

Thanks for sharing, Roger. ♦

## PHOTOGRAPHY FOR THE BLIND

Rich Bickham

The popularity of 3D printers is increasing daily, especially with manufacturers (for economic reasons) and hobbyists (for fun), among others. New applications in these areas are surfacing daily, but I ran across one that is unique, and especially heartwarming. The company, formed in 2011, was called *Pirate3D*. It set about developing a very low cost 3D printer, and along the way worked on a project called "Touchable Memories". The project's aim was to enable blind people to experience old photographs of their 'prior life' experiences, of which they have fond memories.

It works like this. Nearly all of us have fond memories of good times long past, but have photographs we can look at that "take us back" to relive some of the experience and emotion of those moments. It is a luxury the blind do not have. The "Touchable Memories" project developed technology to 'scan' photographs in such a way as to be able to replicate an image, or part(s) thereof, so that a plastic model could be made on a 3D printer.

The reaction of test subjects to their prototype system was remarkable. Typical was the response of *Daniela*, as described by project leader *Fred Bosch*:

*"She chose a memory that not only brought her back to her childhood and the ski holiday she spent with her family, but also reminded her of intimate details she had forgotten, like the wool cap she was wearing at the time and the crunch of the snow beneath her boots." ...*

*"She even joked that the experience must have been similar to what the first person that saw himself in a photograph felt."*



It sounds wonderful, doesn't it? Well, sadly, *Pirate 3D* failed as a company in 2015, but not for lack of a great idea (a slick 3D printer called 'Buccaneer' and a very good application for it). A number of things went wrong. The company was founded by three recent college graduates who had no experience in business or manufacturing. As a startup, they managed to raise \$1.4 million online from over 3,000 investors through the Kickstarter website. However, they attempted to provide too much - specifically a user friendly end-to-end system, including their own OS and CAD (Computer Aided Design) software package (things best left to established software houses) in addition to the printer itself.

Learn more about their vision and their subject trials by viewing the video at

<https://www.youtube.com/watch?v=f-4AmztnlYw&feature=youtu.be> ,

You can still find *Pirate3D* on the internet at

<http://www.pirate3d.com> ,

and read more about their demise at

<https://3dprint.com/100792/pirate3d-buccaneer-sinks/> .

*Pirate3D* proved the feasibility of its vision and made it work - they just didn't know how to bring it to market. Perhaps in the future "Touchable Memories" will come to market successfully. But whoever does it will need deep pockets and a solid base of related technology products, since the application itself addresses a very small niche market.

But just in case the vision is realized with a real product, you may want to hang on to those old photos, no matter how bad they look. ♦



## CRYSTAL LAKE INDEPENDENCE DAY PARADE

Club member *Paul Litke* took in the annual Crystal Lake Independence Day Parade this year, and as usual had his camera with him to shoot a “few” photographs of the festive event on Saturday, July 3. The weather was great, and Paul shot 485 pictures! He was kind enough to give me a CD with all 485 of them, and asked me to choose some to share with newsletter readers. So here are just a few that I picked out of the group that I thought captured the theme of the parade. Thanks much, Paul !!!



Hey, what could be more American than a hot dog? - Ed ◇



## DOCUMENTING THE WORLD'S ANIMALS, ONE PICTURE AT A TIME

Sandra Wittman

National Geographic photographer *Joel Sartore* lived his working life on the road in far flung places such as Bolivia's Madidi National Park, where he documented its astonishing wildlife. His wife stayed at home, taking care of the kids.

However, in 2005 his wife was diagnosed with breast cancer and her illness placed Sartore in a new role - homemaker and child minder. Having a lot of time to think, Sartore says he first focused on *John James Audubon*. He noted that, "He painted several birds that are extinct now. He could see the end for some animals, even in the 1800's." He also thought of others whose artistic work preserved animals and cultures that are gone now. Reflecting on his own work, he discovered that, "I'd done almost 20 years of photographing in the wild, and I wasn't moving the needle very much in terms of getting people to care." He wondered if creating portraits of threatened animals could be used to capture public attention.

In 2006, Sartore called his friend *John Chapo*, president and CEO of the Lincoln Children's Zoo in Nebraska, and asked if he could take portraits of some of the zoo's animals. Sartore requested two things: an animal that would sit still and a white background. The CEO and Curator *Randy Scheer* suggested a naked mole rat (shown on the left). The curator, put the bald, bucktoothed rodent on a cutting board from the zoo kitchen and Sartore started taking pictures. Now that this has become his life's work, Sartore says, "I get most excited when I do little critters like this because nobody's ever going to give them the time of day."



Naked Mole Rat Joel Sartore

Recent estimates place the number of species of animals on the planet at eight million. Many of them (from 1,600 to 3 million) could go extinct by the end of this century, as a result of habitat loss, climate change, and the wildlife trade. "People think we're going to lose animals in their grandchildren's time," says *Jenny Gray*, CEO of Zoos Victoria in Australia. "We're losing them now. And those animals are gone forever."

Zoos are the last hope for many threatened animals, but zoos can only shelter a small fraction of the world's animal species. Sartore estimates that it will take 25 years or more to photograph most of the species in captivity.

The full article and images are here:

[http://www.nationalgeographic.com/magazine/2016/04/photos-saving-rare-animals-conservation/?utm\\_source=NatGeocom&utm\\_medium=Email&utm\\_content=inside\\_20160317&utm\\_campaign=Content&utm\\_rd=5030035](http://www.nationalgeographic.com/magazine/2016/04/photos-saving-rare-animals-conservation/?utm_source=NatGeocom&utm_medium=Email&utm_content=inside_20160317&utm_campaign=Content&utm_rd=5030035)

More of Sartore's photographs can be found on his website at:

<http://www.joelsartore.com/galleries/> - Ed ♦

## MORE STUPID TOURIST TRICKS

Sandra Wittman

### GERMAN TOURIST DIES ON MACHU PICCHU

On June 30, 2016 *Oliver Park*, a 51 year old German tourist, died after falling into an abyss with a depth of 100 meters while visiting Machu Picchu in Peru. While another tourist took his photo on the edge of a hill, the victim lost his balance and fell, causing his untimely death.

According to the Regional Culture-Cusco, prior to the incident the man ignored the safety measures and entered an area restricted to visitors due to its proximity to the ravine. They said he tried to pose for a photograph of himself leaping as if in flight but lost his footing.

Rescuers retrieved the body and transported it to a police station in a Machu Picchu village. The remains were subsequently transferred to a morgue in the city of Cusco. ♦

## GARFIELD FARM OUTING

Rich Bickham

On Sunday, July 10, about a dozen CLCC members participated in a morning photo outing at Garfield Farm and Tavern Museum in LaFox, IL. It is the largest farm in the state on the National Register of Historic Sites. Organized by Outing Coordinator *Sandy Wittman*, the group explored the grounds, taking advantage of the warm, sunny weather and photographing the various old farm structures and assorted livestock. Some of the group also walked around the Garfield Cemetery adjacent to the farm, which has headstones dating from before the Civil War. Below are a few of the photos I took during the morning. ♦



(L to R) Sandy Wittman, Peter Pelke II & Diane Marsek



King of the Barnyard



Pleasant Summer Morning



## BACK TO THE FUTURE OF PHOTOGRAPHY \*\*

Rich Bickham

As discussed in last month's column, by the end of 1954, several new revolutionary cameras had been introduced including the first Hasselblad, featuring interchangeable lenses and film magazines, the first Polaroid Land camera, featuring in-camera film processing, and the Zeiss Contax S which featured the first use of the pentaprism viewfinder. Kodak had introduced Kodacolor film, the first color film in roll form allowing the making of paper prints of images taken with "snapshot" cameras. An antireflection coating had become standard all on high quality lenses, and Japanese companies began producing very high quality lenses as they began their assault on the high end photography market.

## State of the Art: 1955 – 1969

During this span of time, three seminal events occurred that, taken together, would ultimately shape the future of photography in the not too distant future. Each is denoted in the blue font paragraphs in this month's column.

The advancement of camera technology continued with the introduction of the Asahi Pentax 35mm SLR in 1957. Designed and manufactured by the Asahi Optical Company of Japan (later to become the Pentax Corporation), it featured a rapid-wind film advance lever on the right side of the camera, a film rewind crank, instant mirror return, and focusing aids directly on the focus screen. All these features were "firsts", with the single exception of a film advance lever (which earlier appeared on the Exakta, but on the left side of the camera) – other cameras used a knob for film advance. The Pentax camera influenced the design of SLRs for many years, becoming a standard for camera body control locations. With its rich feature set and reasonable price, it introduced many newcomers to the world of 35mm SLR photography.



Asahi Pentax S3

The first of the seminal events mentioned above occurred in 1957. A harbinger of things to come, it led to the most dramatic revolution in photographic technology of the twentieth century, although none (except a handful of true visionaries) realized it at the time. The picture on the left is of a photograph that was scanned into a digital computer – the electronic digitization of an image. The work was done by a group at the U.S. National Bureau of Standards (NBS). Led by American Engineer Russell Kirsch (1929 - ), the group was responsible for the operation of the Bureau's SEAC computer (the first stored-program computer\* in the United States) which became operational in 1950. In 1957 Kirsch's NBS group designed and built a digital image scanner, then scanned a photo of Kirsch's three month old son Walden into SEAC's memory. The original file is a 30,976 pixel image (a 176 x 176 pixel array), each pixel being comprised of a single bit (0 or 1) representing either black or white, requiring 3.872 Kbytes of storage (the picture shown is a 240 x 176 version). In 2003, Life Magazine named it one of the "100 Photographs that Changed the World."



Walden Kirsch SEAC

In 1959, Canon and Nikon introduced their first 35mm SLR, the Canon Canonflex and the Nikon F-Series respectively.

Kodak introduced its Instamatic camera in 1963. It used 126 format film in cartridge form for easy loading and removal. It also had a receptacle with a reflective interior for inserting tiny flash bulbs. The lead designer for the development project was American Inventor Dean Peterson (1931 - 2004), who would later become a major innovator in the 1980's 'point and shoot' camera revolution. It sold for \$16 initially. Several new models were released over the next decade and a half. These later models used the newly developed Flash Cube (see figure), which contained four flash bulbs (one on each of the four of the six cube surfaces, each with its own bulb and reflector). The cubes plugged into the top surface of the camera and one of the bulbs would be activated when the shutter was pressed, after which the cube automatically rotated 90 degrees to the next bulb position. This enabled the user to take four flash pictures in succession without changing bulbs. From 1963 until 1970, Kodak produced 50



Kodak Instamatic 100



Flash Cube

million Instamatic cameras - most of them were sold, but some were given away as promotions (to insure the continued success of Kodak's film business).

Also in 1963, Polaroid introduced color film for its line of self-developing cameras. It was an instant success, since the film was totally compatible with existing models already owned by consumers. Development time was sixty seconds. Later that year, they introduced ASA 3000 speed black and white film which could be used in their new Automatic 100 camera (which featured auto-exposure and sold for \$100), also color film compatible. By 1969 the price of their color models was down to about \$25.

The third seminal event (see the Predictions section below for the second event) occurred in 1968 when Plessey Electrical Engineer Peter J. W. Noble published a paper on active image sensors, describing his development of a MOS (Metal Oxide Silicon) 10 x 10 pixel array in integrated circuit form with built-in sensors, scanning control and amplification circuitry. The target application of the work was optical character recognition. The paper also elaborated on manufacturing techniques for scaling up to larger array sizes. This was the first realization of an electronic image sensor of the general type in use today.

Such was the state of the art in 1969.

## Predictions for Photography's Future: Circa 1955 - 1969

1) The second seminal event occurred in 1965 when American Chemist and Physicist Dr. Gordon Moore (1927 - ), then Director of Research and Development at Fairchild Semiconductor, published a paper proposing what is now known as Moore's Law. It states that the miniaturization of silicon-based electronic components had (and will continue to) improve by a factor of approximately two each year. It suggested the manufacturing cost, size, power consumption and speed of integrated circuitry would improve at an exponential rate for the foreseeable future. Moore later went on to found what is now the Intel Corporation.

2) Peter J. W. Noble ended his 1968 paper with the following comment about the future:

"The rapid development of this field in all areas - from card reading to large self-scanning image detectors - will lead to the exploitation of the basic techniques in presently un-thought of areas. Atalla's [(1924 - 2009) Bell Labs Engineer] recently expressed sentiments are entirely right in that we now have a technique which we all must use our imaginations to exploit. To consider these techniques as mere replacements would be far too constricting. In the area of possible future developments, the combination of photodiodes with logic in a self-adapting matter for pattern recognition purposes is just one possibility."

Nobel was basically saying that future applications of the technology will be limited only by our mental vision, and that science had (at that time) little idea what applications might be forthcoming.

## Back to the Future:

So how did those predictions fare?

- 1) Moore's law has been proven to be a reliable predictor of the exponential improvement in semiconductor technology over the past 50 years, given a 1975 midcourse adjustment of doubling every 18 to 24 months instead of yearly. Today, Intel's 22-core Xeon Broadwell-EP chip is comprised of about 7.2 Billion transistors on a single silicon chip (about 2"x2" square).
- 2) Noble (and Atalla) were also correct in that as the industry rode up the Moore's Law curve, the number of undreamed of applications (in 1968) "exploded", among them image sensors, image processors, digital cameras and smartphones with built-in cameras.

\* A computer that stores program instructions in electronic memory.

\*\* This is the eighth in a series of columns which look back in time (starting from 1810) at the state-of-the-art of photography, and the predictions of where photography was going made by people in the field at the particular time span in history being considered. It also summarizes the accuracy of those predictions. - Ed ♦

## CHARTS &amp; STATISTICS

Rich Bickham

This month I have compiled some visitor statistics for the CLCC website, which is maintained by club Webmaster *Sandy Wittman*. The accompanying charts show several usage statistics (see the definitions at the bottom of this page) spanning the past two years from July, 2014 (when data collection began) through June, 2016. All data is shown on a per month basis, except the bottom chart of cumulative visit duration.

I've also added linear trend lines to some of the charts. They show the following two year trends:

- Number of visits to the website have increased at a rate of about 5.1 visitors per month.
- Number of different visitors to the website has increased at a rate of about 1.9 visitors per month.
- Number of pages viewed has increased at a rate of about 32 pages per month.
- Number of files downloaded has increased at a rate of about 64 files per month.
- Data transfer has increased at a rate of about 28 Mbytes per month.

The data shows downward trend in website use for the last few months, especially in the number of hits.

**Crystal Lake Camera Club**

Welcome to the Crystal Lake Camera Club

The Crystal Lake Camera Club, located in Crystal Lake, Illinois, was started about 1980 to provide our members with the opportunity to enjoy the hobby of photography and improve their photographic abilities.

The Crystal Lake Camera Club's mission is to welcome photographers of all skill levels and interests and to help them grow through a nurturing environment, which provides and promotes good technique and practices, educational workshops, photographic opportunities, challenging competitions, and open discussion in a fun and friendly atmosphere.

Our club is a member of The Chicago Area Camera Club Association (CACC) an active group of about 40 clubs. Winning prints in our competitions are entered in their monthly competitions.

**Our meetings:**

- First Tuesday of each month
- 7:30 P.M.
- Home State Bank, Community Room
- 411 South Main Street, Crystal Lake, Illinois

We cordially invite you to join our group, whether you are a novice or a professional photographer, and visitors are always welcome. Membership is open to all who have an interest in photography as a hobby. Members may elect not to compete and still enjoy all the other activities of the club.

To join the Crystal Lake Camera Club, please print the application form found at the link below and bring the completed form to the next meeting. Annual dues are \$25 to be paid by January each year.

**Crystal Lake Camera Club Membership Application Form**

Directors:  
Gladys Hays

**Calendar of Meetings/Programs**

**July 10, 2016:** Deadline for newsletter inputs.

**August 2, 2016:** 7:00 - 8:00 pm, CLCC August meeting, show & tell theme: Come to the Fair. County State Cornish and Fair, self Channelwell will discuss photo composition.

**August 15, 2016:** 8:30 am, Colonial Cafe, Crystal Lake Saturday morning photography meeting.

**July 2016 Large Print Newsletter**

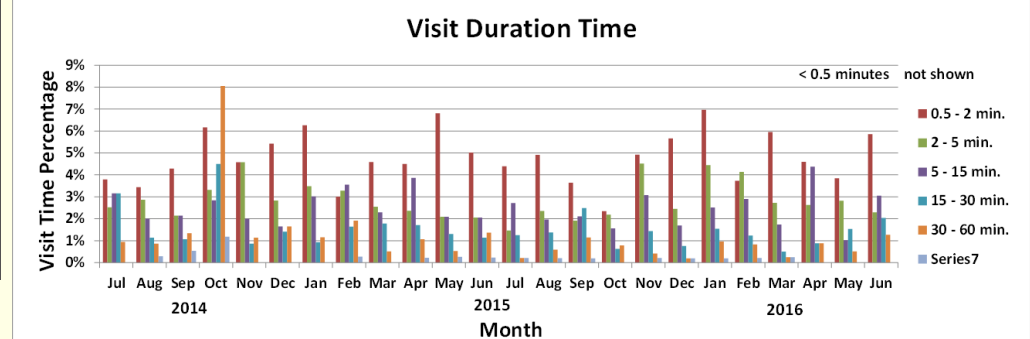
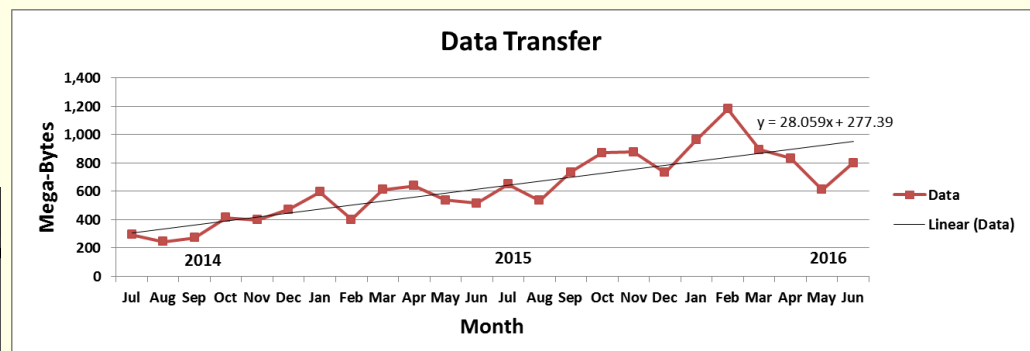
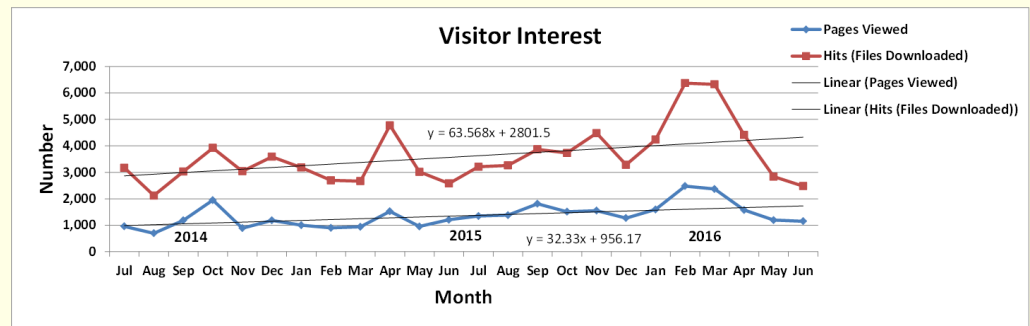
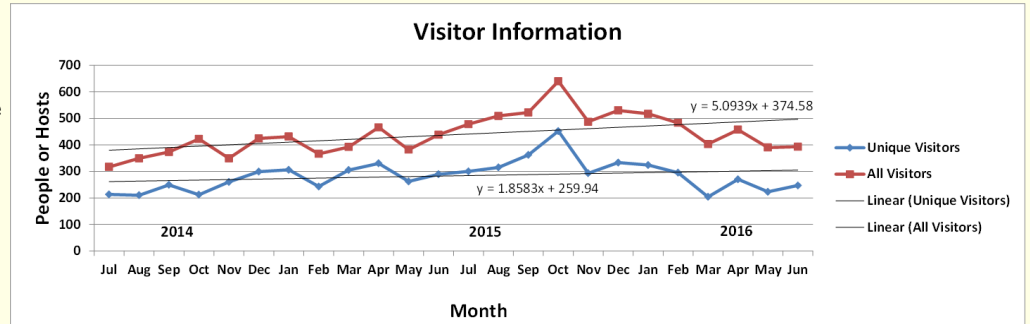
**Club Outings/Photos**

**Interesting Events for Photography**

Illinois Railway Museum, Union, IL, Summer Schedule: <http://www.irm.org/schedule/>

July 20-24 - Kane County Fair, Kane County Fairgrounds, St. Charles, <http://kanecountyfair.com>

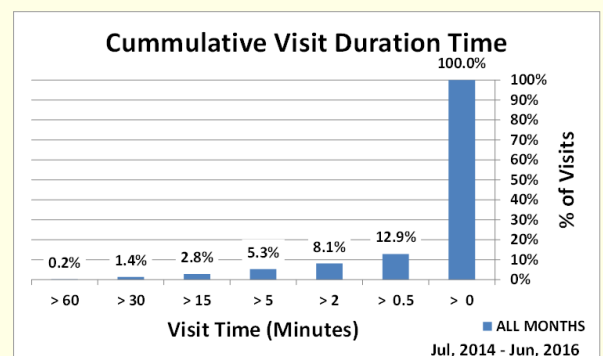
<http://www.crystallakecameraclub.org>



## DEFINITION OF TERMS

- **Visitors** - Number of visits to the site made by all visitors (including repeat visitors).
- **Unique Visitor** - A person or computer (host) that has made at least one hit on one page (repeat visits are not counted) during the month.
- **Pages** - Usually the number of HTML, PHP or ASP files viewed by visitors.\*
- **Hits** - The number of files requested by visitors.
- **Data** - The amount of data downloaded by visitors.

\* I interpret this as the number of different links a visitor clicks to navigate to different sections of the website. - Ed



Sources: <http://www.ipower.com> & [http://awstats.sourceforge.net/docs/awstats\\_glossary.html](http://awstats.sourceforge.net/docs/awstats_glossary.html) ☺



**Advanced Post Processing** - *Maureen Harris* - [parcon129@gmail.com](mailto:parcon129@gmail.com)  
Learning various aspects of post processing with topics suggested by the group.

**Macro - Bob Cairone - [robertcairone@gmail.com](mailto:robertcairone@gmail.com)**  
Exploring methods and techniques of extreme close up photography, where the subject is shown near or larger than life size.

**Nature & Landscape** - *Chuck Rasmussen* - [chuckr@camira.com](mailto:chuckr@camira.com)  
 Enjoying the blended camaraderie of likeminded friends who desire to learn all the many facets involved in taking beautiful photographs of anything in nature.

**NIK Software** - Maureen Harris - [parcon129@gmail.com](mailto:parcon129@gmail.com)  
Studying the Google plug-in NIK which contains many specialized modules.

**Photo 101** - *Chuck Rasmussen* - [chuckr@camira.com](mailto:chuckr@camira.com)  
Understanding the basics of photography including, but not limited to, aperture, shutter speed and ISO and the coordinated interaction of those three elements.

**Photoshop Elements - Peter Pelke II - [railgrinch@gmail.com](mailto:railgrinch@gmail.com)**  
Learning to use Adobe Photoshop Elements software starting from the basics.

**Lightroom** - John Delware - [jndelware@comcast.net](mailto:jndelware@comcast.net)  
Learning to use Adobe Lightroom software starting from the basics.

**Street Photography** - Chuck Rasmussen - [chuckr@camira.com](mailto:chuckr@camira.com)  
Examining techniques, laws and equipment for developing photographs taken in public places.

Anyone interested in joining one or more small groups should contact Small Group Coordinator *Maureen Harris* - [parcon129@gmail.com](mailto:parcon129@gmail.com) . Contact the host listed above after the group name for times and location of the meetings. ♦

**Back by popular demand** (OK, the Editor's demand), this month's Humor section features the dog humor of *Gary Larson's* "The Far Side" collection. This is the third August issue of the newsletter to feature Larson's 'dog' work.



"You wanna have some fun, Fred? Watch ... I'm gonna go over and stare and growl at the closet door."



"Yeah, I just got back! And the wizard I mentioned? He gave me a new brain! ... It's on the coffee table as we speak!"



Donning his new canine decoder, Professor Schwartzman becomes the first human being on Earth to hear what barking dogs are actually saying.

## AUGUST PICTURE



" Next lesson I'll demonstrate the telephoto zoom lens, so there will be no seating in the front two rows. "

*Anonymous*

Email entries to  
[richbickham@comcast.net](mailto:richbickham@comcast.net)  
by August 23, 2016

**T**his month's photo is shown on the right. All entries will be published in the September issue and a winner chosen\* (sorry, no prizes).



## A BRAIN SCAN MAY HELP.



" ??? "

\* If multiple entries are received, the winning entry is selected by an anonymous club member (not me). - Ed ♦



## CLCC IS A MEMBER OF THESE ORGANIZATIONS



Click Icons to Link

## FROM THE EDITOR

Rich Bickham

Early this year I was asked by PSA to serve as a judge in their yearly newsletter contest, and I agreed. I am one of three judges in the Small Club and Council & Chapter categories. My guess is that they were hard up for volunteers, and since our club won third place in last year's Small Club competition, they put the arm on me. Since our club has grown significantly over the past year, we are now in the Large Club category (more than 75 members), so there is no conflict of interest.

I just completed my assignment, reading and scoring 24 newsletters in 14 different areas, as well as ranking my picks for each of the 15 "Best Of" Honorable Mention categories. Due diligence required me to spend many hours rating each entry. However I was glad I did it because it gave me an appreciation of some of the terrific newsletters being published by other PSA member clubs and organizations. During the process I picked up a lot of ideas for how to change and improve our own newsletter. So, starting this fall you will begin to see some changes in the design and content of the Crystal Lake Camera Club Newsletter. ◇

## AUGUST MEETING SHOW &amp; TELL CHALLENGE

The August club meeting Show & Tell challenge is

**"Come to the Fair ... County/State Carnivals and Fairs"**



Bring up to three images you want to share with the group to the August meeting on a memory stick, stored as jpg files. As usual, images on any subject (not just the above) are always welcome. ◇

## HELP WANTED

CLCC is in need of a volunteer to become assistant editor of the newsletter. Beginning responsibilities may include some of the following:

- Pre-publication review of newsletter drafts for typos and other errors,
- Solicit inputs from members for future newsletters,
- Check and vet websites used in the newsletter,
- Contribute and/or create material for the newsletter.

The position may lead to editor responsibilities should the then-current editor be unable to perform duties in any given month(s). Rich Bickham will provide training and guidance. Interested individuals should contact Rich at

[richbickham@comcast.net](mailto:richbickham@comcast.net)

We are always looking for good photography tips for the "Tip of the Month" and interesting links for the "Link of the Month" sections of the newsletter. If you have something helpful or interesting to share with club members (which includes both novices and professionals so both basic and advanced topics are welcome), send them to [richbickham@comcast.net](mailto:richbickham@comcast.net) before the newsletter input deadline. ◇



2015 PSA Newsletter Contest - Small Clubs Category

Third Place overall

Best Variety of Material

## READER FEEDBACK

July Issue:

Another quality newsletter. You really have a gift for gathering content and successfully delivering it. I find your work informative, relevant and entertaining. Cliff Hunn - Crystal Lake, IL

Reader feedback (good or bad) is always welcome and should be sent to

[richbickham@comcast.net](mailto:richbickham@comcast.net). ◇

FOR SALE or WANTED FOR PURCHASE \*  
YOUR AD CAN GO HERE

\* Ad placers must be paid up club members. Items are restricted to ONLY photography equipment, and must be in a functional condition. Ads will run in one issue per submittal (must submit another request for each subsequent issue). Ad postings are published only for the convenience of club members. All transactions are to be conducted solely between the buyer and seller - CLCC will not be a part of any negotiations, and will assume no responsibility for equipment quality or seller claims. Each ad should include a description (brief) of the item(s), condition, contact information and asking price (optional). CLCC reserves the right to edit requests that are deemed too lengthy. All requests should be sent to [richbickham@comcast.net](mailto:richbickham@comcast.net) with the subject line "Ad Request". Requests received on or prior to the newsletter input deadline will be published in the next newsletter. ◇



## OPPORTUNITIES

Get your photography questions answered or your problems solved with our "Ask a Pro" program. Submit queries to [downtownprophoto@sbcglobal.net](mailto:downtownprophoto@sbcglobal.net), and Jim Pierce will provide an answer or solution to your inquiry personally, and in the next newsletter.

The front page picture (Seasonal Image of the Month) of the newsletter will be chosen from entries received from club members. Your entry must be received by the newsletter input deadline. Email a jpg image to [richbickham@comcast.net](mailto:richbickham@comcast.net) with the subject line "Front Page Image Entry - Month" where Month is the intended newsletter issue month. The picture should have a seasonal theme.

Member photos are on display at several venues throughout the area. There are spots available for additional photos. The photographs need not be competition winners. All entries must be mounted on either 11x14 or 16x20 inch black mats, and have a business-card-size white label mounted in the lower right corner of the mat with the photograph's title, photographer's name, and the location at which the photograph was taken. Contact Chuck Rasmussen at [chuckr@camira.com](mailto:chuckr@camira.com) if you have questions or wish to participate. ◇



## CALENDAR OF COMING CLUB EVENTS - July & August, 2016

DATE	TIME	LOCATION	DESCRIPTION	NOTES
August 2, 2016	6:15 - 7:00 p.m.	Home State Bank 611 S. Main St., CL Community Room	"Drop in Early" mentoring	1
August 2, 2016	7:00 - 9:00 p.m.	Home State Bank 611 S. Main St., CL Community Room	CLCC August meeting: - <i>Jeff Chemelewski</i> - "Creating Effective Photo Compositions".	1
August 9, 2016	7:00 - 9:00 p.m.	Home State Bank Community Room	CLCC Class - <i>Peter Pelke</i> - Using Layers in Photoshop Elements	
August 13, 2016	8:30 a.m.	Colonial Café 5689 Northwest Hwy., CL	Saturday morning PhotoBug breakfast meeting	2
August 23 2016			Deadline for September newsletter inputs	3
August 30, 2016			Target date for September newsletter distribution	
September 6, 2016	7:00 - 9:00 p.m.	Home State Bank	CLCC September meeting - <i>Sharon Peterson</i> - "How Judges Judge"	1
September 10, 2016	8:30 a.m.	Colonial Café	Saturday morning PhotoBug breakfast meeting	2

### Notes:

- 1) CLCC meetings are held the first Tuesday of every month. Home State Bank is located in Crystal Lake. It's the large building behind the drive-up just southeast of the intersection of Route 14 and Main Street. The Community Room is on the lower level - take the elevator just inside the south entrance.
- 2) The PhotoBug Breakfast provides an opportunity for open photography conversation plus good food and fun. You may take home some great tips and ideas that help you capture better pictures. It's a great way to get to club members on a more personal level. Come at 8:30 a.m. on the second Saturday of each month.
- 3) Email to [richbickham@comcast.net](mailto:richbickham@comcast.net) . ♦

## UPCOMING NON-CLUB PHOTO-OPS OF POTENTIAL INTEREST



### LAKE COUNTY FAIR

Livestock, Music, Motocross, Rides & Much More

<http://lcfair.com/>

Wednesday to Sunday, July 27 to 31

\$10 Adults, \$5 Seniors (65 and older) and Kids (6-12), Free Kids (5 and under)

10:00 a.m. to 11:00 p.m. (Midnight Friday & Saturday, and 6:00 p.m. Sunday)

1060 East Peterson Road, Grayslake, IL



### BRISTOL RENAISSANCE FAIRE

Travel Back in Time to 1574

Swordfighters, Minstrels & Jesters, Potters, Glass Blowers & More

<http://www.renfaire.com/Sites/VWisconsin/Bristol-Renaissance-Faire.5.html>

\$24 Adults, \$11 Kids (5-12), Free Kids (4 & under), \$3 Parking

Saturdays & Sundays through September 4 & Labor Day - 10:00 a.m. - 7:00 p.m.

12550 120th Avenue, Kenosha, WI



### McHENRY COUNTY FAIR

Livestock, Rides, Music and Much More

<http://www.nwherald.com/2012/07/31/mchenry-county-fair-schedule/a4xwjy2/>

Daily: \$7 Adults, \$3 Seniors (65 & older) & Kids (8-12), Kids 7 & under Free

Wednesday to Sunday, August 3 to 7, 7:00 a.m. - 11:00 p.m.

11900 Country Club Road, Woodstock, IL



### SYCAMORE STEAM SHOW & THRESHING BEE

Steam Power Tractors and Machines in Operation & Much More

<http://www.threshingbee.org/contents.html>

\$7 Adults, \$4 Seniors, Kids Free (under 12), Parking Free

Thursday to Sunday, August 11 to 14 - 7:00 a.m. - 6:00 p.m.

Taylor Marshall Farm,

27707 Lukens Road, Sycamore, IL



### GARDENERS OF THE NORTH SHORE SHOW & SALE

Judged Exhibition of Homegrown Flowers, Vegetables, Herbs & Houseplants

Saturday & Sunday, August 13 (Noon - 4:30 p.m.) & 14 (10:00 a.m. - 4:30 p.m.)

Chicago Botanical Gardens

1000 Lake Cook Road, Glenview, IL ♦

