Chris Baird Photo, 700,000+ Viewers

This is an EPS member photo record that will most likely stand for many years all because Chris Baird entered the AARP (American Association of Retired Persons) annual calendar photo contest. Now her lighthouse photo can be seen by 700,000 AARP members for 30 days in July of 2020. Wow!

Chris is a relatively new EPS member and she knows our coast lighthouses well. Retiring soon from the Admin. Office in the Business School at the U of O, Chris is already ramping up in her next job of personal photography.

She did this last year when she entered three of her lighthouse photos for her first time in the EPS Courthouse June show. She sold all three.

Make no mistake folks, in a short time Chris has shown us to be friendly, dedicated, determined, successful and soon will be happily working her new job full time. Good going Chris. Congratulations!
EPS Club News

South Coast Field Trip, September 20-23

Kevin Reilly & Rochelle Villanueva Official Organizers.

Where -- Harris Beach State Park. Just north of Brookings on the Southern Oregon Coast.
When -- Arriving Friday, September 20. Leaving Tuesday, September 24.
What -- There are lots of photographic opportunities in the area, and we’ll have the chance to have several meals with old, and new, photo buddies.
You need to know
No campsites available unless someone cancels. Check with Reserve America.
If camping isn’t your thing, there are plenty of close-by motels - • Brookings, Windward Inn Motel.
Let me know - if you’re planning on attending &, if you need more information, drop me an email, kevin.sonoraguy@gmail.com or give me a call. 209-770-7040.

Looking forward to having a great time.
Kevin Reilly, Trip Coordinator

EPS Officers & Board of Directors

OFFICERS
PRESIDENT - Ron Seguin
VICE PRES - Open
SECRETARY - Linda Magary
TREASURER - Kevin Reilly
PAST PRESIDENT - David Horton

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Jim Mehrwein
Graham Smith
Krystal Grube
(Alt) Sue Mehrwein

Three Club Support Positions Open

Challenge Night Chair - OPEN
A fun night once a month to challenge all members to shoot to a theme in just 30 days. Chair gets to choose a new theme for the following month’s competition. Lots of creativity and fun.
Vice President - OPEN Volunteer gets to be President following year.
4Cs Club Representative - OPEN
Only four meetings each year. Report to EPS about other clubs in OR, WA, ID. Report info on 4Cs Fall Photo Convention and field trips.

Tom Elder Update

Tom says he’s recuperating nicely & will be back ASAP. Most of all he & Judy want to thank their EPS family for the thoughtful cards and wonderful basket of goodies.
Thank you all!

You Can Do It!
Every EPS member is authorized to organize a Field Trip at any time for any place or event.
• Pick a date • Make a map • Make it happen!
A brain-inspired computer system sheds surprising new light on how images impact emotions.

Could a computer in a few milliseconds, tell the difference between a joyful image and a depressing one?

“Yes,” according to research published this week by CU Boulder neuroscientists.

“Machine learning technology is getting really good at recognizing the content of images,” said senior author Tor Wager. “We wanted to know: Could it do the same with emotions? The answer is yes.”

Lead author Philip Kragel, a researcher at the Institute of Cognitive Science said, “We found that the visual cortex itself plays an important role in the processing and perception of emotion.”

Their research sheds a new, different light on what we see -- even briefly -- and can have a greater and more swift impact on our emotions than we might assume. This marks an important step forward in the application of “neural networks” -- computer systems modeled after the human brain -- to the study of emotion.

They “showed” a new neural network work, called EmoNet, 25,000 images ranging from erotic photos to nature scenes and asked it to categorize them into 20 categories. EmoNet could accurately and consistently categorize 11 of the emotion types. It was better at some than others. For instance, it identified photos evoking sexual desire with more than 95 percent accuracy, but it had a harder time with emotions like confusion, awe and surprise.

To refine EmoNet, the researchers then brought in 18 human subjects. Using a functional magnetic resonance imaging (fMRI) machine, it measured their brain activity, when shown 4-second flashes of 112 images. EmoNet saw the same pictures, essentially serving as the 19th subject.

When EmoNet was compared to that in the subjects’ brains, the patterns matched up. This means that EmoNet learned to represent emotions in a way that is biologically plausible, even though we did not explicitly train it to do so,” said Kragel.

Ultimately, the researchers say, neural networks like EmoNet could be used in technologies to help people digitally screen out negative images or find positive ones. It could also be applied to improve computer-human interactions and help advance visual emotion research.

The takeaway for now, says Kragel: “What you see and what your surroundings are can make a big difference in your emotional life.”

Science Daily, July 26, 2019
Institute of Cognitive Science
Univ. of Colorado at Boulder

New Discovery Clarifies How The Eye Sees Brightness

Japanese scientists are shedding new light on cells in the retina that is ushering in a new understanding of the biology of the eye and how visual information is processed.

The findings could contribute to more effective therapies for complications that relate to the eye. They can also serve as the basis for developing lighting and display systems.

The back of the human eye is lined with two types of photoreceptors, that respond to different amounts of light. Cells processing a lot of light are cones and those that process lower levels are rods.

Now researchers have discovered entirely new type of cells, called intrinsically photosensitive retinal ganglion cells (ipRGCs) that contain melanopsin, a photopigment that is sensitive to light.

“Until now, the role of retinal melanopsin cells and how they contribute to the perception of the brightness of light has been unclear” said

Continues on next page
**New Eye Discovery continued**

Katsunori Okajima, a professor at the Faculty of Environment and Information Sciences, Yokohama National University and one of the authors of the study. “These findings are redefining the conventional system of light detection that so far has only taken into consideration the two rod and cone variables. Our results suggest that brightness perception should rely on a third variable -- the intensity of a stimulus that targets melanopsin.”

In the study, the authors showed how cones and melanopsin combine to allow the perception of brightness. In order to better assess the contribution of melanopsin to the detection of light, the melanopsin’s signals were isolated from cones and rods. This separation allowed for more accurate observation of the melanopsin signal alone.

The researchers were able to show that the varying brightness levels of an image that was perceived is a sum of the melanopsin response and the response that is generated by the cones. The former is a linear readout and the latter is not. The results also show that melanopsin is not a minor contributor in brightness perception. Rather, it is a crucial player in brightness perception.

*Science Daily, August 18, 2019*  
*Yokohama National University*

**“Bye bye” Huge Tele’s - “Hello” Tuneable Lenses**

Camera performance on mobile devices has proven to be a popular feature for most end-users. This pushes manufacturers to constantly provide phone cameras with better zoom, low-light exposure and higher quality photo capability. But, this is not as easy as it seems at small scales in confined spaces.

What is required is the integration of an adjustable-dynamic zoom lens that can handle the full optical spectrum and be reshaped electrically within milliseconds. A class of soft materials known as liquid crystal spatial light modulators have been the tool of choice for high-resolution light shaping. However, until now consumer level production using this material has proven to have limits in performance and cost.

In a study recently published in Nature Photonics, researchers demonstrate a liquid crystal adjustable technique to manipulate light without any mechanical movement.

This new approach, called Smartlens, uses a small current passing through an optimized micrometer-scale resistor, changing the optical properties of a transparent polymer plate holding the resistor. Similar to the way as a heat mirage bends light passing through hot air to create an illusion of a lake.

Within milliseconds, a simple slab of polymer can be turned into a lens and back: small, micrometer-scale smartlenses heat up and cool down quickly using minimal power. They can even be fabricated in arrays, and the authors show that several objects located at very different distances can be brought into focus within the same image by activating the Smartlenses located in front of each of them.

By modeling the diffusion of heat and the propagation of light and using algorithms inspired by the laws of natural selection the authors show they can go way beyond simple lenses: a properly engineered resistor can shape light with a very high level of control and achieve a wide variety of optical functions. For instance, if the right resistor is imprinted on it, a piece of polymer could be activated or deactivated at will to generate a given “freeform” and correct specific defects in our eyesight, or the aberrations of an optical instrument.

Lead researcher, Prof. Romain Quidant, points out, “Remarkably, the Smartlens technology is cost effective, scalable and has proven potential to be applied to high-end technological needs as well as simple end-user cameras.”

*Science Daily, July 26, 2019*  
*ICFO-The Institute of Photonic Sciences*
A Message From The 4Cs 2019 Convention Chair

Hello Columbia Council of Camera Club members,

Our Columbia Council of Camera Clubs 2019 Convention in Vancouver, WA, Clark College - October 11-12 is ready to go.

We have 11 speakers covering Textures - Luminosity masks - Tips for Bird photography - Horse photography - Water drops - Many others.

Master Photographer Seth Resnick is our Keynote speaker and is being sponsored by B&H Photo.

Seth’s speaker information is linked here: https://www.sethresnick.com/

Plan now to be in Vancouver for a weekend of photo fun and info.

Thanks. See you all there.

John Craig
Chair, Columbia Council of Camera Clubs

4Cs 2019 Convention Information Online
Registration is now open

1. Home - Columbia Council of Camera Clubs
   cobiamacameraclubs.org
   The objective of the Council is to coordinate and promote camera clubs, Photographic Society of America (PSA) and other photographic activities of interest to camera clubs and their members.

2. Seth Resnick
   Keynote Speaker

3. TIPS - HOW TO'S
   - Textures -
   - Luminosity masks -
   - Bird photography -
   - Horse photography -
   - Water drops
   - More -
**Q & A With Tim Grey**

**GoodSync Saves Tim’s Butt.  Boy Is He Happy!**

**Q:** How would you recover from having your photos hard drive fail in a way that caused photos to be lost from that drive?

**A:** If a master hard drive fails, you could simply recover from the backup drive that had been updated by GoodSync. In fact, GoodSync may very well alert you to the fact that a hard drive is failing in the first place.

Today’s question I wrote myself, because I experienced a hard drive failure that I was first alerted to by the GoodSync software I now recommend for backing up photos (http://timgrey.me.greybackup).

After downloading photos into my Lightroom Classic catalog, I was backing up my photos drive to a backup drive using GoodSync software, when GoodSync presented an error message that photos could not be read from the source hard drive.

I browsed that hard drive, and found that most of the photos were missing from the folder I had just imported photos into. Fortunately, I had a backup created with GoodSync that I could recover from. I also had a backup of the photos most recently imported into my Lightroom catalog, since I had taken advantage of the option to “Make a Second Copy To” during the import process.

So, I purchased a replacement drive, then used GoodSync to copy all of my photos from the drive that had been used for the most recent backup. I made sure the new drive had the same volume label (or drive letter if I had been using Windows) as the drive that had failed. When I launched Lightroom, everything was in perfect working order. The only photos that were missing were from the most recent import, which hadn’t been backed up by GoodSync as my hard drive was in the process of failing. To recover those photos, I simply copied them to the applicable folder on the new hard drive, since those photos were reflected in my Lightroom catalog already, and were simply missing from the master hard drive at that point.

As a result, I didn’t lose a single photo thanks to GoodSync, and in fact I was alerted to the impending hard drive failure by error messages presented by GoodSync. So now I’m an even bigger fan of this software than I was before!

Note that if you decide to also use GoodSync to back up your photos, I have a video course in the Grey-Learning library that will teach you the workflow I use with this software. You can find that course in the Grey-Learning library here: https://www.greylearning.com/courses/goodsync

**Q:** The Crop tool in [Photoshop and] PS Elements allows setting the desired width and height in inches for an image to be printed. Also, there’s a “Resolution” box. What should that resolution number be?

**A:** Simply cropping an image to keep the existing aspect ratio with no resizing and intended only for online output, leave the Resolution field blank.

For printing as the final output in most cases you’ll get best results with a Resolution setting of 300 ppi. to 360 ppi. with no clear advantage to settings above that.

Resolution is not a factor for digital online output.

**Q:** Are color labels specific to Lightroom or are they standard metadata?

**A:** The color label you can apply to photos in Lightroom is stored in the Label field that is part of the XMP metadata standard part of the Extensible Metadata Platform (XMP) originally created by Adobe.

Tim Grey publishes the monthly on-line magazine PIX-OLOGY, and is a top educator offering clear guidance on complex photo subjects. He is also a Photoshop World Dream Team member.

[Note: Tim’s articles are reprinted with permission & abridged to fit available space.]
What To Know

September 2019
5 Challenge Night - Theme TBA Jun 6
12 Ed. Night, TBA
19 Digital Competition night
26 Photo Forum Night, Q & A, Demos

October 2019
3 Challenge Night - Theme TBA Sept. 5
10 Ed. Night, TBA
17 Digital Competition night
24 Photo Forum Night, Q & A, Demos
31 Board Meeting 7 PM

November 2019
7 Challenge Night - Theme TBA Oct. 3
14 Ed. Night, TBA
21 Digital Competition night
28 Photo Forum Night, Q & A, Demos

December 2019
5 Challenge Night - Theme TBA Nov. 7
12 Digital Competition night

Only Two Meetings this month

January 2020
2 Challenge Night - Theme TBA Dec. 5
9 Ed. Night, TBA
16 Digital Competition night
23 Photo Forum Night, Q & A, Demos
30 Board Meeting 7 PM

February 2020
6 Challenge Night - Theme TBA Jan. 2
13 Ed. Night, TBA
20 Digital Competition night
27 Photo Forum Night, Q & A, Demos

March 2020
6 Challenge Night - Theme TBA Feb 6
13 Ed. Night, TBA
20 Digital Competition night
27 Photo Forum Night, Q & A, Demos

Where To Go

• Chris Baird & Ron Seguin
At the Courthouse in September
These two EPSers have a joint show for the month that may be seen during week days from 8 - 5 in the Harris Hall Lobby.

October 11-12
4Cs Annual Convention
Clark College
Vancouver, WA

Got a show?
We want to know!
Have your photos been published?
• Magazines
• Brochures
• Calendars
• Scientific Journals
Send complete details to:
<bittled70@gmail.com>

“If you don’t blow your own horn, somebody else will use it for a spittoon.”
Ambrose Bierce

Classified

Classified Ads
Free to all EPS members

EPS WHOLESALE
print show supplies
Best prices in town
Available only to EPS

$17 FRAMES (16”x 20” OD)
Aluminum, Black or Brushed Silver, includes hardware & clean glass

$7 MATS (Fit frames above)
Double whites, 10”x15” or 12”x16” openings
Whites / black core 10”x15” only
Stiff backers included

$5 TRANSPORT BOXES
for moving framed images
(some assembly req.)
$2 goes to EPS from each of the above purchases

Contact:
Bruce Bittle  541.343.2386
FREE Delivery to club meetings!

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Show your membership card to these vendors for nice discounts. Be a good ambassador for EPS each time you receive these discounts by letting these folks know how much you appreciate their support.

**Dotson’s Camera Store**  
1668 South Willamette Street  
15% Discounts on in-house processing (including slide processing)

**Focal Point Photography**  
161 West Ellendale, Dallas, OR  
Equipment Rentals, Trade Ins, discounts on most items  
Call Nate, 503.623.6300

**Oregon Gallery**  
199 East Fifth Avenue, Eugene  
15% discount on all matting and framing

**Red River Paper**  
Professional quality papers of all types for much less than printer mfg. brands  
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