

Mar
2017

The BELLOWS

A small crowd this year had big fun in a great new facility

Reynolds, Reilly Top 2016 Winners

The number of attendees at this year's Awards Banquet was the lowest in memory, however the amount of fun was near the top and our new facility was absolutely the best ever.

It's a puzzle somewhat as to the reason for the poor turnout of just forty members and guests this year when last year had a record sixty-three.

We'll probably never know; yet, for the folks who were there it was all great fun with scrumptious food, a wide range of top quality items in the Silent Auction and great goodies in the Raffle.

Both of those events brought in a combined total of \$1,200 for the EPS treasury which is very respectable considering the low attendance.

Still, the thing that received the most rave reviews during the entire evening was



"Feeding the Family," by Gina Reynolds
Best EPS Photo of 2016 & Best Pictorial category photo

our new banquet facility that we got to use for the first time. It is absolutely the best our club has ever had. Plenty of uncrowded room for all activities - Easy to set up and take down - Easy, close access to bring in all auction items - An excellent sound system - Best of all was the kitchen to die for with warming oven, microwave, ice maker, huge refrigerator, all with easy clean up.

If you were not there, tsk, tsk, you missed a good one!



A Complete List of Winning Photographers & Images on page 2.

Many Thanks To:

Dave Horton, Main Coordinator, **Ron Seguin**, Silent Auction Master, **Dave Putzier**, Raffle Master, **Mike VanDeWalker**, Projectionist, **Lloyd Helickson**, Donations coordinator and **Bruce Bittle**, MC.

Also, to all of the many volunteers who jumped right in to help organize the setup, brought the food, worked the kitchen and especially the take down and clean up crew.

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Top Shooters of 2016 & Winning Images

The Winners Are:

Photographers of the Year

Best of the Best!

- 1st Place – Kevin Reilly
- 2nd Place – Stephanie Ames
- 3rd Place – Mark Gotchell

Nature Category

- 1st Place – Terry Smith
- 2nd Place – Bob Petit
- 3rd Place – Mark Gotchell

Pictorial Category

- 1st Place – Stephanie Ames
- 2nd Place – Dave Horton
- 3rd Place – Gina Reynolds

People Category

- 1st Place – Shannon Sprout
- 2nd Place – David Putzier
- 3rd Place – Buzz Summers

Abstract-Experimental Category

- 1st Place – Mike VanDeWalker
- 2nd Place – Jim Buch
- 3rd Place – Sue Albright

Print Category

- 1st Place – Tom Elder
- 2nd Place – Keith Munson
- 3rd Place – Walt Biddle

Photo Images of the Year

Best of the Year

- 1st Place – Gina Reynolds
- 2nd Place – Gina Reynolds
- 3rd Place – Okke Duursma

Nature Category

- 1st Place – Gina Reynolds
- 2nd Place – Terry Smith
- 3rd Place – Terry Smith

Pictorial Category

- 1st Place – Gina Reynolds
- 2nd Place – Gina Reynolds
- 3rd Place – Stephanie Ames

People Category

- 1st Place – Okke Duursma
- 2nd Place – Shannon Sprout
- 3rd Place – David Putzier

Abstract-Experimental Category

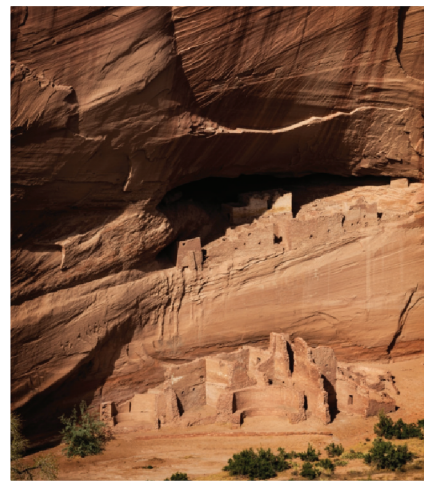
- 1st Place – Mike VanDeWalker
- 2nd Place – Andy Nowlen
- 3rd Place – Buzz Summers



Nature category – “Lower Lewis Falls” by Gina Reynolds



People category – “Hand Crafted” by Okke Duursma



Print category – “White House” by Keith Munson

Print Category

- 1st Place – Tom Elder
- 2nd Place – Keith Munson
- 3rd Place – Susan Starr

Special Recognition

Nyquist Awards

Best First Year Competitor

Andy Nowlen

President’s Award

For reorganizing and simplifying the EPS financial procedures

Rick Le Brun



Ab/Ex category – “Spherical Glow” by Mike VanDeWalker



More Photos From The EPS Awards Banquet



◀ **Linda Magyary and Jan Horton** enjoying the event.

A big list of vendors and donors enriched the Silent Auction



Gina Reynolds earned the *Image of the Year* award and can make a bow tie with socks too.



◀ **Raffle Master Dave Putzier** working hard.

Wayne Harrison, Judy Elder and Mike VanDeWalker work in the kitchen



Photos by
Keith Munson
and
Tom Elder

Who would have guessed that some donated socks could inspire a gang of photographers to be creative?



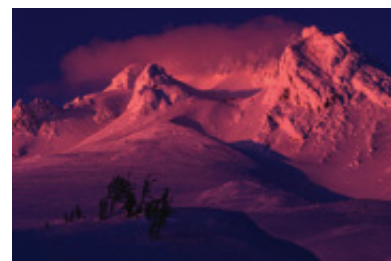
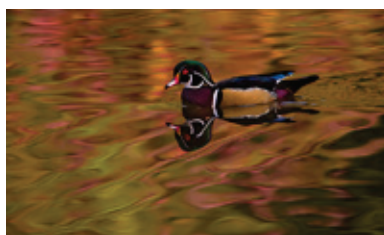


Latest Winning Images From 4Cs Competition



Top Awards of Merit were judged in January to be the best entries in the inter-club digital competition sponsored by the Columbia Council of Camera Clubs.

EPS has joined this competition in the past and may do so again next year that will start in September.



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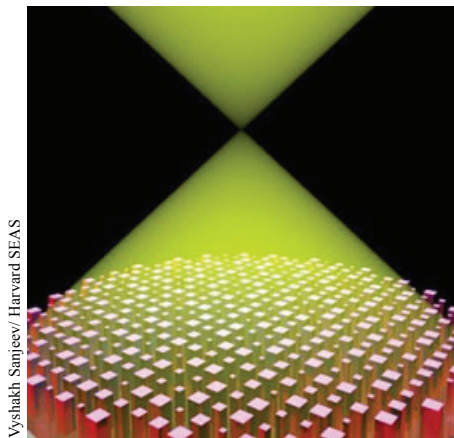
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Game Changing New Flat Lens For Color Optics

Researchers at the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) announced a new, flat lens that works across a continuous bandwidth of all colors. This bandwidth, close to that of an LED, paves the way for new applications in imaging, spectroscopy and sensing.

“Traditional lenses for microscopes and cameras -- including those in cell phones and laptops -- require multiple curved lenses to correct chromatic aberrations, which adds weight, thickness and complexity,” said researcher Dr. Federico Capasso, “Our new breakthrough flat metalens has built-in chromatic aberration corrections so that only a single lens is required.”



Vysakh Sanjeev/ Harvard SEAS

SEAS researchers have developed the first flat lens that works within a continual bandwidth of colors, from blue to green. This bandwidth, close to that of an LED, paves the way for new applications in imaging, spectroscopy and sensing.

“By harnessing chromatic aspects, we showed that we can break away from the constraints of conventional optics, offering new applications that have never before been possible.”

The research team optimized the shape, width, distance, and height of the nanopillars that make up the heart of the metalens by using abundant and inexpensive titanium dioxide to create the nanoscale array.

The platform is based on single step lithography and is compatible with high throughput manufacturing technique such as nano-imprinting.

Harvard’s Office of Technology Development has filed patent applications on a portfolio of flat lens technologies and is working closely with a startup company.

*Science Daily - Feb. 8, 2017
Harvard School of Engineering*



‘Eagle-Eye’ Camera Has Vision Of Predators

A new study presents a miniaturized camera inspired by the natural vision of predators such as eagles that captures images with a high central acuity. The camera demonstrates for the first time direct, three-dimensional printing of a complex imaging system onto a chip to form a multi-aperture camera.

The system involves so-called “foveated imaging,” named after the fovea area of the eye, which gives the highest acuity in vision.

The design has potential applications in, optical sensors and surveillance drones, and it builds upon the growing field of micro-optics that has

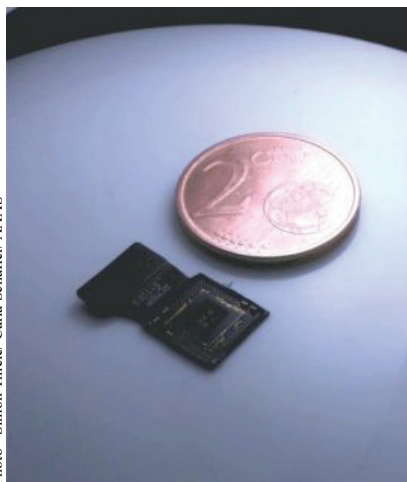


Photo - Simon Thiele/ Carla Schaffer/ AAAS

Miniaturized camera system, including the image sensor with 3-D printed lenses.

been revolutionized by advances in 3-D printing.

This camera has four printed lenses, with different focal lengths ranging from a narrow (20 degree) to a wide (70 degree) field of view.

The design could potentially outperform a conventional camera of similar size in a small microdrone, or the movable vision sensor on a robotic arm, the authors say.

Future modifications could incorporate an anti-reflective coating or find ways to reduce the fabrication time to improve commercial production.

*Science Daily - February 15, 2017
AAAS*





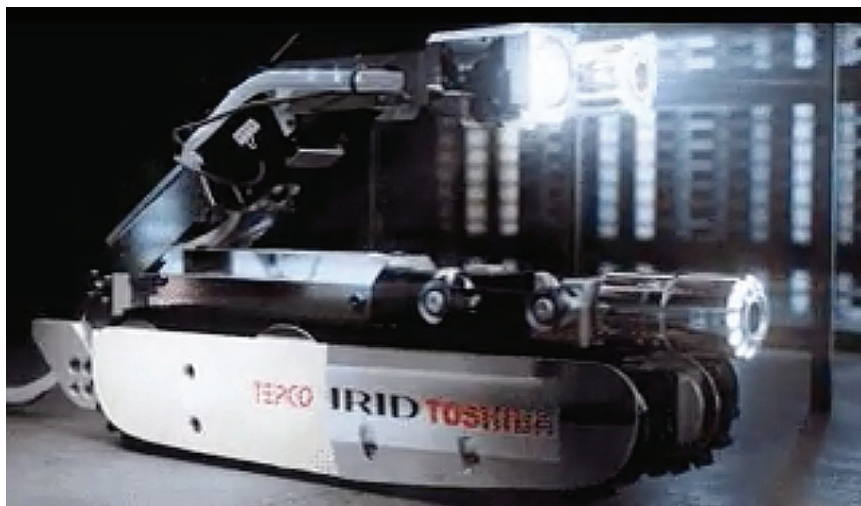
Second Camera Robot Fails In Japan Meltdown

Seven robots have broken down while investigating nuclear reactors which remain highly radioactive in the Fukushima Daiichi nuclear power plant in Japan, the site of a major [multiple] reactor meltdown caused by the devastating 2011 earthquake and tsunami.

Two new robots are two feet long and shaped like a scorpion. These robots are equipped with two cameras, one on the front, and another on the tail that can whip up [over the power unit] and look around.

The Toshiba robots crawl on caterpillar treads like a tank through pipes about eight inches wide and are designed to withstand 1,000 sieverts of radiation.

This was the second failed mission in a week investigating the bottom of the Unit 2 nuclear reactor, where melted nuclear fuel is suspected to have fallen. Last week, the first



robot was pulled back out after less than two hours – the cameras had been fried internally by record high levels of radiation estimated to be about 650 sieverts per hour. (For scale, a CT scan exposes you to 0.006 sieverts, and just half a sievert, 0.05, is enough to cause symptoms of radiation sickness.)

TEPCO, has not yet succeeded [and some engineers say they are years away from] removing the molten radioactive fuel from three of the four reactors that must be decommissioned.

Still, TEPCO officials say the public is not at risk from radiation levels measured outside the reactors.



New Optical Meta-material, Now Needs Lab Replication

Engineers have now produced an elusive diamond crystal structure that could revolutionize photonics. This achievement is seen by many as the 'holy grail of directed particle self-assembly.' Such materials could be used to make lenses, cameras and microscopes with better performance, or possibly even 'invisibility cloaks,' rendering solid objects invisible.

"The technological implication is that such materials would allow for the construction of 'transistors' for light, the ability to trap light at specific locations and build microcircuits for light and more efficient LEDs and lasers,"

said professor John Crocker of the University of Pennsylvania's School of Engineering and Applied Science.

"It's a classic story of serendipity in scientific discovery. You can't anticipate these things. You just get lucky sometimes and something amazing comes out," Crocker added.

Although the researchers have been able to reproduce this experimentally more than a dozen times, they have yet been unable to reproduce it in simulation.

"This is the one crystal structure of 11 we've discovered so far that we can't explain, which is probably not

unrelated to the fact that nobody predicted it. In a way, this adds evidence that something fundamentally different is taking place here."

"We triple-checked everything and can say this is an exciting, lucky discovery, now others can work on this and help us try to solve this mystery," professor Crocker said.

*Science Daily - Feb. 21, 2017
University of Pennsylvania*

[Ed note: "You just get lucky. . . " the same way Goodyear discovered how to make tough rubber when some of his mix accidentally splattered on a hot stove, thereby inventing vulcanization.]





Q & A With Tim Grey

ASK?
tim
grey



What's the difference between the Spot Healing Brush and the Healing Brush tools?



The Spot Healing Brush automatically includes "Content-Aware" technology, [whereas] with the Healing Brush [you must] choose the source [pixels] for cleanup.

The Healing Brush is the more basic. It doesn't include the Content-Aware feature [as does] the Spot Healing Brush. This means sometimes the Spot Healing Brush [will be] the better choice for cleaning up complex areas.

[The main difference is] with the Healing Brush you [must] choose a specific source [of] pixels to replace the blemishes. Example: To remove a dust spot from a sky, hold the Alt/Option key and Click [to select] a clean area of sky [pixels]. Then [paint] the blemish with [the copied] pixels [now loaded in the brush].

The Spot Healing Brush chooses source [pixels] automatically, but [remember to choose a soft edge brush size 25% larger than the blemish]. Then, paint over the blemishes [for a] more advanced and automated cleanup. [This] is often the first tool to go to when cleaning up a blemish.

However, this automation [may] produce results that aren't ideal.

[If] you need more control over the cleanup use the Healing Brush instead.

Of course there are other cleanup tools [like the Clone Stamp] that may be helpful in [complex] situations.



You suggest backing up the catalog to the same external drive as the one used for photo storage. My backup is on my Mac-Book Pro. Where in Preferences do I make this change?



I do recommend storing the backup separate from the catalog. [To] specify a backup location [go to] the Catalog Back Up dialog. This Backup Folder identifies the current backup location which by default will be the same as the actual catalog files.

Within the Back Up Catalog click the Choose button to the right of the Backup Folder label where the existing path is indicated. Then choose a new location for the backup. Once you change the location, it will remain the backup location [until] you change it again in the future.

[To choose] a backup frequency, (daily, weekly, monthly, at every exit or never) [go to] the Catalog Settings dialog. However, there is no option [here] (or in Preferences), to [choose a new] backup location.



In Lightroom is there any reason not to turn on the check-box "Remove Chromatic Aberration" for every image?



I consider it very safe for all images to enable the "Remove Chromatic Aberra-

tion" from the checkbox found in the Lens Corrections section in the Develop module in Lightroom. It is also available in Adobe Camera Raw and it applies an automatic correction for chromatic aberrations (color fringing) in your photos.

This feature is very convenient, and for about half the images I work on that include chromatic aberrations, simply turning on this check-box will remove the color fringing to the point that no further correction is required.

[When this] feature looks for color variations along contrast edges, there is some risk that saturation will be slightly reduced in photos that didn't exhibit chromatic aberrations. However, this impact affects such small areas of a photo I don't consider it significant.



Tim Grey currently publishes the monthly on-line magazine PIXOLOGY. He is a top educator in digital photography imaging, offering clear guidance on complex photo subjects. Tim has written many books, hundreds of magazine articles and is a member of the Photoshop World Dream Team.

[Ed Note: Articles are reprinted with permission & abridged to fit available space.]



What To Know

NEW MEETING LOCATION

Northwood Christian Church
2425 Harvest Lane
(Corner of Harvest Lane
& Hayden Br. Road, Springfield)

New Meeting Night THURSDAYS

March 2017

- 2 Challenge Night - Theme "BLUR"
- 9 Ed. Night, TBA
- 16 Print & Digital Competition night
- 23 Photo Forum Night, Q & A, Demos
- 30 EPS Board meeting - All welcome

April 2017

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

May 2017

- 4 Challenge Night - Theme TBA Apr. 6
- 11 Ed. Night, TBA
- 18 Print & Digital Competition night
- 25 Photo Forum Night, Q & A, Demos

June 2017

- 1 Challenge Night - Theme TBA May 4
- 8 Ed. Night, TBA
- 15 Print & Digital Competition night
- 22 Photo Forum Night, Q & A, Demo
- 29 EPS Board Meeting All welcome

Where To Go

• Gina Reynolds –

Has a new show at the *Wild Craft Cider Works*, 390 Lincoln Street in Eugene. Large canvas prints of her recent award winning photos can be seen daily 10am - 9 pm during business hours until the end of the month.

Got a show?

We want to know!

Send details
(location, time, theme, etc.)

Have your photos been published?

- Magazines
- Brochures
- Newspapers
- 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

This
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Available

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Bruce Bittle 541.343.2386

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