



TheBELLOWS

\$50 gift certificate put to immediate good use

Reilly Wins BRING Photo Contest

f you're in love with color, repetition, design, funk and rusty crusty goodness, BRING! is the place for you."
So said new EPS member and Treasurer, Kevin Reilly upon winning the BRING photo contest.

The contest consisted of the images submitted to the Planet Improvement Center by EPSers who attended the recent Field Trip. As reported in the BRING UsedNews newsletter, the images were judged by the FaceBook followers of BRING.

"The nice folks at Bring! Kevin said, gave me a gift certificate for winning their photo contest. It was promptly redeemed on a little red wagon for Rochelle and a big slab of granite for me."

The UsedNews went on to say, "We'd like to thank all the photographers who entered the contest. We are in awe of the images they cap-



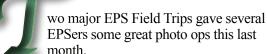
Winning photo, "BRING! Fence" by Kevin Reilly

tured. Creating a world without waste really is a beautiful thing." We say, "Congratulations Kevin!"

Bruce Bittle

EPS Field Trips Continue The Spring Photo Fun

Photos on next page



The first scheduled trip during the first weekend of the month found eight members collected at the old hotel in Mitchell and two additional members at a dog-friendly motel in La Pine. All were in this central Oregon locale for a weekend of shooting at the Painted Hills Nat. Monument.

Mark Gotchell was the leader of this event and was probably the best prepared trip coordinator any photographer could wish for. A key shooting plan included the Milky Way over

the hills at 2:30 am for those who could make it. Eight of this group were up and ready to shoot because Mark had a tailgate party set up in the back of his truck. Hot coffee,

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Field Trips continued

tea or cocoa anytime we needed it while long exposures were cooking pixels on top of a row of tripods. Earlier that night, light-painting an old ranch was an attraction and in Mitchell under the only street light on Main St. we found a live dial-tone in what may be the last working phone booth in Oregon.

At sunrise, serendipity and synchronicity were in conjunction as the hills were wet from rain the day before we arrived and the yellow flowers in the run-off gullies were in full bloom.

Additional day shoots included the Visitor Center at John Day Fossil Beds and the Kam Wah Historical Chinese Pharmacy in the town of John Day.

Summer Lake

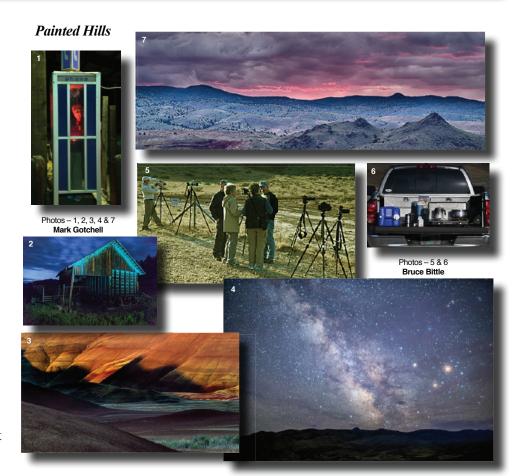
The third weekend in May found another contingent of EPSers recreating a trip for bird photos at the Summer Lake Wildlife Refuge in the southeast quadrant of our state. This trip was similar to an EPS trip last year that was scheduled too early for good birding, but this year was spot focused precisely at the right time.

"Keepers," was the word most heard for the three days of shooting black crowned night herons, (three pair, maybe more), pelicans, arctic terns, wading birds and ducks galore, a baby great horned owl, and a resident tundra swan seen sitting on a nest.

there give the rest of you permission to give yourself a dope slap for not being part of the fun.



Summer Lake



Call For Images - 2017 EPS Calendar

Open to all EPS Members

- Theme North American Wildlife Animals
- Images due at June 28th Meeting (Limit 8)
- Submit Vertical Prints, (No Mount, Min. Size 10"x15")
 - All Members at the Meeting Get to Vote
 - Twenty Winning Images Will be Selected
 - Winners Will Receive Five for Personal Use
 - Photos Will Dominate Each Page
 - Finished Calendars by Sept. First
 - Calendars Will Sell for \$8 Each





EPS Summer Break
No Club Meetings In July & August
Have A Happy Shooting Summer

Oregon Blue Book Photo Contest

Open to all Oregonians, to select

front and back cover images for the biennial Oregon Blue Book. The Oregon Blue Book is the state's official almanac and fact book, published every two years since 1911. It features an almanac, maps, facts about Oregon history, elections history, information about the arts, media, cultural institutions, public schools, colleges and universities and descriptions of all levels of Oregon government.

2017-18 Oregon Blue Book theme: "Oregon Outdoor Recreation" Entry Deadline – Wednesday, October 12, 2016

Blue Book photo contest guidelines and entry info is online at: http://bluebook.state.or.us/misc/cover/front.htm

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EPS Projection Committee Finds Image Quality a Difficult Measure

large task has been handed by the Board to EPS VP, Dave Horton,

who rose to the challenge and put together a team with

over 150 years of varied photographic experiences that includes Jim Heric, Jon Parker, Mike VanDeWalker, and an outside consultant, Rick Maday. The task is to determine why the member images at club meetings aren't appearing the same as the images on their computer monitors at home.

Thirty test images have been compared side-by-side for – color, B&W, with low and high contrast, using - images of night skies, flowers, bridges and abstract, etc. were shown on − a glass bead screen, flat white screen, large 4K flat TV screen – using three projectors (1600 - 3200 lumen) – and testing different quality video cards by using a mix of laptop computers.

Evaluation includes judging projection systems on brightness (lumens), contrast ratios (light levels), resolution (pixel counts), color accuracy (display source / video card), gray scale (range







from black to white) and cross screen homogeneity (evenness of illumination / uniformity).

A lot more testing remains to be accomplished before a recommendation from this group can be made to the Board. The time-line goal is to have the project wrapped up by perhaps a Board meeting on August 30 near the end of summer break with a demonstration and explanation how the group arrived at their recommendation.

Tom Bruno EPS Secretary

Field Trips

Official Trips in Red

Other possibilities are in black (Always check EPS web site for trip updates & for more complete list)

> JUNE Fort Rock, Fri. 3 & Sat. 4

> > **JULY**

Civil War Reenactment Willamette Mission State Park Fri. 1st - Mon. 4th (I-5 exit 162)

> **AUGUST** Madras Air Show 26 -27 Oregon's Balanced Rocks

> > SEPTEMBER **TBA**

ANYTIME LIST

Willamalane Parks Activities (L) Downtown walk-around (L) Springfield Alleys (L) (Daytime only with partners) Riverside Bike Paths (L) Carousel Museum (DT) (New temp. location 2 blks north of former site) Brooks Truck Museum (DT) (Also, Cars, Streetcars, Steam tractors, Drag strip, close by, I-5 exit 162) Coast Aquarium (DT)

Newport Waterfront (DT) Coast Lighthouses (DT) Construction Equipment (L) Car/Boat/Antique Shows (L)

Fern Ridge Activities (L) LET US KNOW

If you have an idea for a field trip – Contact: Adrienne Adam **EPS Field Trip Coordinator**

* $L = Local \cdot DT = Day Trip \cdot ON = Overnight$

New Board Member Suggests EPS Leave Columbia Council

surprise suggestion was put forth by a new Board member at the May Board meeting to have EPS leave the Columbia Council of Camera Clubs.

EPS is an original member of this regional council known as the 4Cs and we hosted the Annual Convention here in 2007 that today is still remembered by other clubs as one of the best ever.

This is not the first time that a new member has questioned the value of

spending \$35 each year to stay in contact and competition with other clubs in three states. I'm sure other new members may think the same as many in the past have, until they attend a convention or a sponsored photo event or join a monthly competition and learn otherwise.

Joining 4Cs activities lets our club know exactly how EPS fares in the level of quality and creativity of photos by comparing images with other clubs.

The 4Cs Annual Convention (in

Newport this year) is the best place for newbies to learn about this council and how much information and good fun can be packed in to a single weekend devoted entirely to photography.

My personal biased hope is that other EPS members who know the 4Cs will suggest to the Board that they table that decision until the new board member has a chance to learn what it's all about.

> Bruce Bittle - EPS 4Cs Representative Past 4Cs President

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Thousands of MicroImages - Ten Foot Photos

ritish photographer Levon Biss (best known for his portraits and sports photography) has teamed up with the Oxford University Museum of Natural History to produce these stunning high-resolution images of insects, like the splendid-necked dung beetle at the right, from the museum's collection. It's a rare opportunity to see insects' every hair, every nook and nodule, in perfect clarity, color, and contrast.

But making these images is no small feat: Each one is actually a composite of more than 8,000 photos shot with a microscopic lens.

Microscopic lenses have a tiny depth of field, which means they can only bring one tiny spot into focus at a time. It's painstaking work to get every aspect of the insect in perfect focus this way.

"To enable me to capture all the information I need to create a fully focused image, the camera is mounted onto an electronic rail that I program

to move forward 10 microns between each shot," Biss writes of his process. "To give you an idea of how far that is, the average human hair is around 75 microns wide."

From start to finish, each image requires weeks

of shooting, retouching, and digital reassembly.

The images are currently on display at the Oxford Museum in a "Microsculpture" exhibit. The insects — 22 in total — were pulled from the museum's entomology collection, and selected for their particularly rich colors and well-preserved structures.



Thousands of tiny photos stitched to reveal insects splendor

Some prints at the museum stretch 10 feet across to show off every detail of the insects. If you can't make it to Oxford, however, you can get a taste of the exhibit by scrolling down or checking out the photos on the "Microsculpture" website.

Brian Resnick Science Daily, May 3, 2016



Huge Camera Busts Drivers Using Phone/Texting



The RCMP., Canada's version of the FBI, have started using a 24.2 megapixel DLSR attached to scopes to spot cell phone users from as far as three-quarters-of-a-mile away.

RCMP is not saying where cameras will be posted. Better to just let that last text go unanswered.

Distracted driving fines in British Columbia are \$543 Canadian – first offense, \$888 after that.

Andrew Liszewski (Published on-line)



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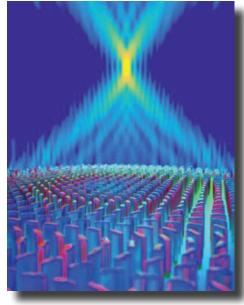
"Meta-lens" Could Replace All "Big Glass"

igh efficiency ultrathin planar lens could replace lenses in smart phones and the heavy, bulky one's in cameras and telescopes. This potentially printed lens sees smaller than a wavelength of light.

Researchers have demonstrated the first planar meta-lens that works with high efficiency within the visible spectrum color range of light.

While lens technology has come a long way, it 's still difficult to make a compact lens with bulky, stacked glass. But what if you could replace those stacks with a single flat -- or planar -- lens?

The meta- lens, uses titanium dioxide, a ubiquitous material found in everything from paint to sunscreen, and can resolve nanoscale features separated by distances smaller than the wavelength of light. Using an ultrathin array of tiny waveguides, this lens bends light as it passes through similar



Ultra-thin meta-lens of titanium dioxide nano-fins on glass, focuses light to a spot smaller than the incident wavelength.

to a curved lens.

Curved lenses, like those in cameras or telescopes, are stacked in order to reduce distortions and resolve a clear image. That's why high-power microscopes are so big and telephoto lenses so long.

"This new technology is potentially revolutionary, said researcher Federico Capasso of the Capasso Lab, "In the near future, metalenses will be manufactured on a large scale at a small fraction of the cost of conventional lenses."

Normal lenses have to be precisely polished by hand, whereas the metalens can be produced in a single step -- one layer of lithography printing and you have a high performance lens, with everything where you need it to be and provide better focus than any of today's state-of-the art commercial lenses.

The authors have filed patents and are actively pursuing commercial opportunities.

Science Daily, June 2, 2016 Harvard -John A. Paulson School of Engineering & Applied Sciences

Suspicions Confirmed! Bosses Not Helpful In Most Jobs

osses play no role in fostering a sense of meaningfulness at work -- but they do have the capacity to destroy it and should stay out of the way, new

tions, from priests to garbage collectors, to ask about incidents or times when the workers found their work to be meaningful and, conversely, times when they asked themselves, "What's though what they can do to introduce meaninglessness is unfortunately of far greater capacity.

The researchers identified the 'seven deadly sins' of meaninglessness,

... managers ... far greater capacity to introduce meaninglessness ...

research shows.

A study carried out by Professor Katie Bailey, at Sussex's School of Business, Management and Economics, and Dr Adrian Madden of Greenwich's business school.

They interviewed 135 people working in 10 very different occupa-

the point of doing this job?"

The study shows that quality of leadership gets virtually no mention when people describe meaningful moments at work, but poor management is the top destroyer of meaningfulness.

Thus what managers can do to encourage meaningfulness is limited,

including disconnecting people from their values, overriding peoples' better judgment and disconnecting people from supporting work relationships.

Science Daily, June 3, 2016 Published in MIT Sloan Mgmt. Review



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Q & A With Tim Grey

I've heard not to use image stabilization (IS) on a tripod because it will start vibrating and create motion. True?

This is a bit of advice that has become out of date. In truth, most newer lenses with image stabilization technology (going back to 1999 in the case of Canon lenses, for example) can be used with a tripod even with image stabilization turned on.

With most older lenses that include IS, it is absolutely true that you should leave the stabilization feature turned off when on a tripod. Otherwise the stabilization technology can actually cause movement that translates into a blurred shot, defeating the whole purpose.

Some new lenses even include special features that enable IS to work when panning. For example, Canon has incorporated a "Mode 2" option for some of their lenses that is designed for this.

As a rule, with a static subject [like landscapes] when photographing using a tripod, I'm still in the habit of turning off image stabilization. But in general you'll find that with modern lenses the advice to turn off IS is no longer critical advice.

In Lightroom, as I hold down the Option key [Alt on Windows] and move the masking slider to adjust the area in the image that I want to sharpen, I sometimes think the result that I see would make an interesting abstract. What is actually happening in and how could I best reproduce that effect in either Lightroom or Photoshop?

The effect you're seeing is somewhat similar to a result you can achieve in Photoshop. The approach involves using the Find Edges filter and then creating additional contrast and possibly inverting the result.

To start, open in Photoshop and create a copy of the Background layer. Then in the menu choose, Filter > Stylize > Find Edges. There are no parameters for this filter, so you'll simply see the result in the image.

Next, add a Hue/Saturation adjustment layer, and reduce the color Saturation completely. This creates a true black and white version of the image.

Then in a Levels (or Curves) adjustment layer, drag the black and white point sliders inward, possibly until they are touching each other. to create extreme contrast. Pay attention to details in the photo to help choose where those two end points should meet.

You then add an Invert adjustment layer to provide the same basic result you're seeing in Lightroom. You might try applying a Gaussian Blur to the Background Copy layer.

Or you might try a lower-resolution to exaggerate the size of the lines created by the effect.

It is worth noting that you could also simply produce a screen capture of the effect directly from the Develop module in Lightroom when using the preview feature (by holding down the Alt/Option key on the keyboard) while adjusting the Masking setting for the sharpening effect. Because the image is abstract, having a relatively lowresolution screen capture won't have a significant effect on the appearance of the final image.

> Tim Grey • Has authored a dozen books • Publishes PIXOLOGY on-line • Is on the Photoshop World

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

Dream Team.



U of O Bookstore Art Department Corner of 13th Ave. & Alder St.

20% discount on all art supplies

The Bellows June 2016



What To Know

June 2016

- 7 Challenge Night Theme "PAPER"
- 14 Ed. Night, TBA
- 21 Print & Digital Competition night
- 28 Photo Forum Night, Q & A, Demos

No EPS
Meetings in
July & August
Have a Happy
Shooting Summer

September 2016

- 6 Challenge Night Theme TBA June7
- 13 Ed. Night, TBA
- 20 Print & Digital Competition night
- 27 Photo Forum Night, Q & A, Demos

October 2016

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

November 2016

- 1 Challenge Night Theme TBA Oct. 4
- 8 Ed. Night, TBA
- 15 Print & Digital Competition night
- 22 Photo Forum Night, Q & A, Demos

December 2016

- 6 Challenge Night Theme TBA Oct. 4
- 13 Print & Digital Competition night

Only Two Meetings this month

Where To Go

• EPS Club Print Show

June 1st – June 30th, in the Harris Hall Lobby at the Lane County Courthouse, 125 E 8th Ave. in Eugene. This show is open to all members and it looks like **Shannon Sprout** steals the show with three gorgeous portraits.

• New EPS Banner at Club Courthouse Show

When you stop to take a look at the Club Show you will see the new portable information banner contributed by **Tom Bruno.** Tell Tom thanks the next time you see him.



Got a show? Have a show going up? We want to know!

Send details

(location, time, theme, etc.)

Have your photos been published?

Send complete details to:

Send complete details to:

<b

Classified

Classified Ads Free to all EPS members



EPS WHOLESALE print show supplies

\$7 MATS (16"x 20" OD).

Double whites, acid-free surfaces with stiff backers.

Center-cut with 10"x 15" or 12"x 16" openings.

\$14 WHITE MATS BLACK CORE
Available only with 10"x 15"
center-cut opening.

\$17 FRAMES (16"x 20" OD). Black or Silver aluminum, with hardware & glass.

\$5 TRANSPORT BOXES for framed images. (some assembly req.)

\$2 from each mat, frame or box purchase goes to EPS.

Contact:

Bruce Bittle 541.343.2386 FREE Delivery to club meetings!

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Inquiries about, or submissions for *The Bellows* (deadline is the last week of the month for following month publication) send to Editor, c/o Emerald Photographic Society, 1236 Debrick Rd., Eugene, OR 97401, or by email chib">chib" the bellow of the bello

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EPS Preferred Vendors



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)

Your camera's home away from home

Focal Point Photography 161 West Ellendale, Dallas, OR

Equipment Rentals, Trade Ins, discounts on most items Call Mike Lowery, 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 10% rebate to EPS when ordered directly from our web site

The Shutterbug Camera Stores

Two Stores 207 Coburg Rd. & Valley River Center 10% discount on photo accessories and photo finishing

U of O Bookstore Art Department (Basement)

Corner of 13th Ave. & Alder St. 20% discount on all art supplies

Web Mats & Frames / Vistra Gallery

160 East Broadway, Eugene 20% discount on printing, matting & framing, Up to 30% on orders over \$500