

Nov.  
2015

# The BELLOWS

*Beginning a new year of 4Cs Digital competition*

## 4Cs October Digital, EPS Does Well

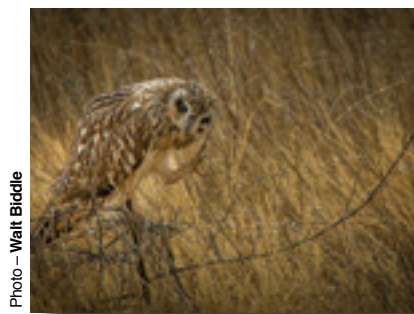


Photo – Walt Biddle

**Take a look  
at these  
November  
EPS entries**

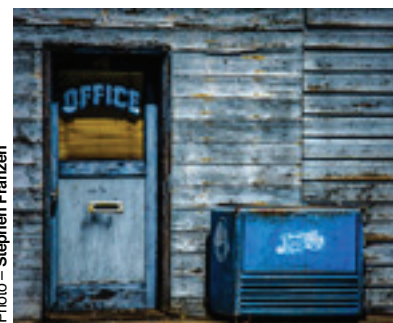


Photo – Stephen Franzen



Photo – Gina Reynolds



Photo – Gina Reynolds



Photo – Stephen Franzen

**(October scores & standings on next page)**

**I**n competition with other clubs around the region in our parent organization, the Columbia Council of Camera Clubs, (4Cs), EPS has a good start for the first month of a new competitive year.

This annual contest is where our club's best shots for the next ten months go up against the best shots from nineteen other camera clubs in OR, WA and ID. (See EPS best for Nov. above.)

This is the best way for EPS to determine how our shooters compare with folks in other clubs. A different competing club judges each month's entries in an attempt to be as fair as possible.

There are about a dozen remaining clubs in the 4Cs who don't compete in this top level competition. We can only guess they know the heat in this "kitchen" is very hot and choose to keep their images at home where they are assured of soothing air conditioning.

*Bruce Bittle*

### *Inside This Issue*

|  |   |
|--|---|
| • EPS Stats for 4Cs Inter-club competition   | 2 |
| • NPPNW Photo Workshop Information           | 3 |
| • Ask Tim Grey - JPEG vs RAW-Background Blur | 5 |
| • Complete Camera on a Silicon Chip          | 6 |
| • Camera Sees What Eyes Can't                | 7 |
| • What To Know - Where To Go                 | 8 |



# 4Cs Begins New Year For Digital Competition

## Columbia Council of Camera Clubs

Monthly Electronic Images Score Report

For Oct., 2015

**Host Club: Monticello Camera Club**

**90 Images Submitted by 18 Clubs**

| AWARDS OF MERIT                                | Club                                    | Total score |
|--|---|-------------|
| Harvey Brown SVCC Green Violet-ear Hummingbird | Spokane Valley Camera Club              | 24          |
| JimIngraham CAVE BlueShadows                   | Caveman Camera Club                     | 24          |
| DougFischer FPCC Westerner                     | Film Pack Camera Club                   | 23          |
| GrahamSmith EPS GrizzRocks                     | Emerald Photographic Society            | 23          |
| KarenMcClymonds PPS WhenSparksFly              | Portland Photographic Society           | 23          |
| MaryLouPolvi YVCC Rocks                        | Yamhill Valley Camera Club              | 23          |
| RandyJohnson KCCC FarFarAway                   | King City Camera Club                   | 23          |
| ReneeMarcov OCPA Here'sLookingAtYou            | Oregon Coast Photographers' Association | 23          |
| WBiddle EPS Western Flicker                    | Emerald Photographic Society            | 23          |

| HONORABLE MENTION                      | Club                                 | Total |
|--|--------------------------------------|-------|
| Jeanne Goodhew BMPC TakeMeToYourLeader | Blue Mountain Photo Club             | 22    |
| MarkShugert FPCC AdventureAwaits       | Film Pack Camera Club                | 22    |
| Neal Thompson SOPA Cathedral Stars     | Southern Oregon Photographic Society | 22    |

## CLUB STANDINGS AS OF Oct 31, 2013

Tied scores are listed alphabetically

| Place           | Club                | Oct | total |
|-----------------|---------------------|-----|-------|
| 1 <sup>st</sup> | Boise C C           | 108 | 108   |
| 1 <sup>st</sup> | Emerald P S         | 108 | 108   |
| 1 <sup>st</sup> | Forest Grove C C    | 108 | 108   |
| 1 <sup>st</sup> | Spokane Valley C C  | 108 | 108   |
| 2 <sup>nd</sup> | Blue Mountain C C   | 107 | 107   |
| 3 <sup>rd</sup> | Film Pack C C       | 106 | 106   |
| 3 <sup>rd</sup> | King City C C       | 106 | 106   |
| 3 <sup>rd</sup> | Oregon Coast P A    | 106 | 106   |
| 3 <sup>rd</sup> | Yamhill Valley C C  | 106 | 106   |
| 4 <sup>th</sup> | Southern Oregon P S | 105 | 105   |

| Place           | Club                   | Oct    | total |
|-----------------|------------------------|--------|-------|
| 5 <sup>th</sup> | Caveman C C            | 104    | 104   |
| 5 <sup>th</sup> | Yaquina A A P          | 104    | 104   |
| 6 <sup>th</sup> | Siuslaw Viewfinders    | 103    | 103   |
| 7 <sup>th</sup> | Portland P S           | 102    | 102   |
| 8 <sup>th</sup> | Grande Ronde C C       | 99     | 99    |
| 8 <sup>th</sup> | Meterite C C           | 99     | 99    |
| 9 <sup>th</sup> | Gorge P C              | 97     | 97    |
| 9 <sup>th</sup> | Valley Viewfinders C C | 97     | 97    |
| Judges          | Monticello C C         | Judges |       |

|                               |                              |   |   |   |     |    |
|-------------------------------|------------------------------|---|---|---|-----|----|
| 02GrahamSmith EPS GrizzRocks  | Emerald Photographic Society | 8 | 8 | 7 | 23  | AM |
| 05WBiddle EPS Western Flicker | Emerald Photographic Society | 8 | 8 | 7 | 23  | AM |
| 03Jerry-Gowins EPS Ghost-Car  | Emerald Photographic Society | 8 | 7 | 7 | 22  |    |
| 01DaveHorton EPS Tillicum-2   | Emerald Photographic Society | 7 | 6 | 7 | 20  |    |
| 04Stephen Franzen EPS-Racoon  | Emerald Photographic Society | 7 | 6 | 7 | 20  |    |
|                               |                              |   |   |   | 108 |    |





NATURE PHOTOGRAPHERS  
**NPPNW**  
OF THE PACIFIC NORTHWEST

**NATURE PHOTOGRAPHY  
AT ITS BEST!**

**Fall Meeting - November 7, 2015**

**Corbett Theatre at Centralia College in Centralia, WA.**

Our fall meeting will be November 7 at the Corbett Theatre at Centralia College in Centralia, WA. We will open the doors at 8:30 a.m., and the program will begin at 10:00 a.m.. The invited speaker will be ROMAN KURYWCZAK under the generous sponsorship of SIGMA. Roman is a widely published nature photographer with credits in Audubon and Outdoor Photographer.

Roman's morning presentation is entitled "Photographing Wildlife - From Portraits to Flight". He will offer two afternoon presentations: "Photographing the Night Time Landscape" and "Taking Your Macro Photography to the Next Level".

Treat yourself to Roman's website at [www.roaminwithroman.com](http://www.roaminwithroman.com).

**COMPETITIONS**

As usual there will be projected (digital) and print competitions. We will again use a "limited hand of man" rule. Any man-made object in the entry should not be a major or significant portion of the image.

**DIGITAL**

Your digital files must be received no later than October 30. Send a maximum of two digital files as email attachments, each 3 MB or smaller in size, to [digital@nppnw.org](mailto:digital@nppnw.org). Include text in your email message that describes the attachments. No watermarks are allowed. See the competitions page of our website for complete details. A confirmation of receipt will be sent for every submitted image. If you do not receive a confirmation email by the deadline for submissions, please contact us at [digital@nppnw.org](mailto:digital@nppnw.org).

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## NPPNW show *continued*

### FILE NAME SEQUENCE FOR DIGITAL SUBMISSIONS:

Category\* – Title by FirstName LastName.jpg

### EXAMPLE

Wildlife – Bull Moose by John Doe.jpg

\*Categories are: *Plant Life, Scenic, & Wildlife.*

### PRINTS

Maximum of two prints, may be matted but not framed. Dimensions, with mat, must not exceed 40 inches. ( i.e. a 16 x 20 print measures 36 inches.) No watermarks or names. Oversize prints will be disqualified. Categories are: ***Plant Life, Scenic, & Wildlife.*** Submit prints before 9:45 a.m.

### SENSOR CLEANING

Bring your digital camera bodies for specially priced sensor cleanings by Advance Camera. They will professionally clean your sensor, clean the outside of your camera body, and upgrade your firmware if needed while you enjoy the speaker.

### DRIVING DIRECTIONS

(Washington Ave. & Walnut St., Centralia, WA)

From the South:

Take I-5 Exit 81 - Mellen Street exit. From exit ramp, turn rt (east) onto on Mellen Street that angles left becoming Alder Street. Go three blocks, turn left onto Washington Ave, Go four blocks to Walnut. Corbett Theatre can be seen from the intersection. Parking available on the surrounding streets.

### LODGING

Best Western Park Place Inn and Suites in Chehalis, WA. Rate \$92.00 plus tax. Contact (360-748-4040). ID group rate for Nature Photographers of the Pacific Northwest. Use Exit 76 from I-5, 201 SW Interstate Ave. Chehalis, WA 98532

### REGISTRATION

Register on-line as soon as possible.



### FIELD TRIP POSSIBILITIES

#### NOVEMBER

Oakland Cemetery (DT)  
Old Farm Seed Processor (DT)

#### DECEMBER

Shore Acres (ON)  
Lighthouses (DT)

#### JANUARY

Coast Aquarium (DT)  
Newport Waterfront (DT)  
Antique Machine Shop (L)

#### FEBRUARY

Asian Festival (L)  
Carousel Museum (DT)  
Brooks Truck Museum (DT)

#### THE PERPETUAL LIST

Willamalane Parks Activities (L)  
Street Photos (L)  
Springfield Alley's (L)  
(Daytime only with partners)  
Riverside Bike Paths (L)  
Construction Equipment (L)  
Car Shows (L)  
Fern Ridge Activities (L)  
Frisbee Golfers, RC Sailboats at  
Alton Baker Park (L)

#### LET US KNOW

If you have an idea or know of a good location for a field trip, tell **Kathy Baker**  
EPS Field Trip Coordinator

\* L = Local •DT = Day Trip •ON = Overnight

***"Put your best thinking,  
not your face,  
in every photo  
you make."***

The old Crumudgeon

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Corner of 13th Ave. & Alder St.  
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## Q&A With Tim Grey

ASK?  
tim  
grey

**Q:**

*I haven't yet upgraded to the latest [version of] Lightroom, but heard that the "Import experience" changed dramatically. Can you provide input on whether I should upgrade now, and how best to prepare for the new Import features?*

**A:**

I am not a fan of the new "Import experience" introduced with Lightroom 6.2 (2015.2 for CC users), and frankly I consider the new experience to be a bit dangerous for those who don't realize that additional options are available. Adobe has announced that a future update will revert Lightroom to the previous Import experience, and so unless you need updated RAW support or other new features, I might suggest waiting for the next update before upgrading.

### More Detail:

My primary concern about the new "Import experience" introduced in Lightroom 6.2 is that if you don't access the settings panel all of your photos will be downloaded into the "Pictures" folder for your operating system, without a customized folder structure. This can lead to some serious organizational challenges if you imported various sets of photos without being aware of the settings panel.

In addition, the update to this new "Import experience" removed the option to automatically eject the media you were downloading cards from. I considered that to be a very helpful feature, and was sorry to see it disappear.

The new "Import experience" also removes the option to preview what your folder structure will look like after the import, which can present a challenge to some users.

Understandably, many photographers were far more concerned about Lightroom crashing more frequently after the version 6.2 update. While these crashes seem to have affected a relatively small percentage of Lightroom users, there was most certainly a very significant issue for those who did experience the crashes. My understanding is that these issues have been resolved for most users via the version 6.2.1 (2015.2.1) update.

And, as noted above, Adobe has indicated that they will be reverting to the prior version of the Import experience with an upcoming "dot" release (presumably a version 6.3 update, but in any event a version later than 6.2.1). For those who don't otherwise have a need to update to an interim version of Lightroom, I would suggest waiting until the update with a reversion to the prior Import experience.

I suspect the Import experience will change again in the future, as Adobe is obviously looking for ways to improve this feature. Even the prior Import experience could be a little bit cumbersome for some users, so a more elegant solution would be welcomed by many photographers, I'm sure. Hopefully we'll see more significant improvements (without the loss of any features) in a future update to Lightroom.

**Ed Note:** Readers should remember that Tim G. is a promoter

*of Photoshop and Lightroom and perhaps even paid by Adobe to do so. Therefore take his answer to Adobe's new "Import Experience" as being far more critical than it sounds.*

*To my way of thinking if you have to create a new term for the normal implementation of an upgrade for a well-known program, that alone is a huge red sign, octagonal in shape, with four huge capital letters screaming STOP! Don't move!*

*There are significant and serious problems, as Tim mentions, that the average user should avoid at all costs until Adobe's next iteration arrives and proves to all users that they really screwed up on this one.*

*Tim Grey is one of the top educators in digital photography and imaging, offering clear guidance on complex subjects.*

*Tim has written more than a dozen books on digital imaging for photographers. He has also had hundreds of articles published in magazines and is a member of the Photoshop World Dream Team of Instructors.*

*Tim was also the keynote presenter at the 4Cs annual convention in Portland in 2007.*

*[Ed Note: These articles are being reprinted with permission.]*





# Now A Complete Camera On A Silicon Chip?

**R**esearchers have developed innovative flat, optical lenses as part of a collaboration between NASA's Jet Propulsion Laboratory and the California Institute of Technology, both in Pasadena, California. These optical components are capable of manipulating light in ways that are difficult or impossible to achieve with conventional optical devices.

The new lenses are not made of glass. Instead, silicon nanopillars are precisely arranged into a honeycomb pattern to create a "metasurface" that can control the paths and properties of passing light waves.

Applications of these devices include advanced microscopes, displays, sensors, and cameras that can be mass-produced using the same techniques used to manufacture computer microchips.

"These flat lenses will help us to make more compact and robust imaging assemblies," said

Mahmood Bagheri, a microdevices engineer at JPL and co-author of a new Nature Nanotechnology study describing the devices.

"Currently, optical systems are made one component at a time, and the components are often manually

manufacture millions of systems such as microscopes or cameras at a time."

Seen under a scanning electron microscope, the new metasurfaces that the researchers created resemble a cut forest where only

the stumps remain. Each silicon stump, or pillar, has an elliptical cross section, and by carefully varying the diameters of each pillar and rotating them around their axes, the scientists were able to simultaneously manipulate the phase and polarization of passing light.

Phase has to do with the separation between peaks of light waves; light waves in phase with each other combine to produce a single, more powerful wave. Manipulating its phase influences the degree to which a light ray bends, which in turn influences whether an image is in or out of focus. Polarization refers to the way

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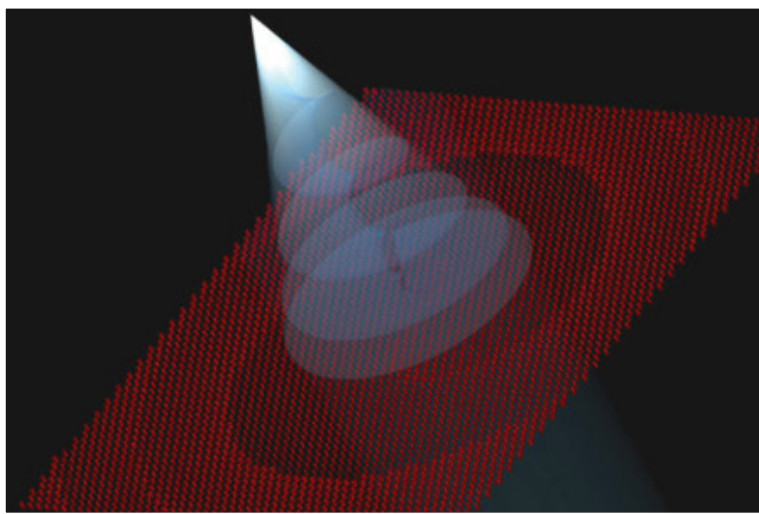


Photo - Amir Arbabi/Faraon, Lab Caltech

*This schematic drawing shows how a "metasurface" can generate and focus radially polarized light.*

assembled," said Andrei Faraon, an assistant professor of applied physics and materials science at Caltech, and the study's principal investigator. "But this new technology is very similar to the one used to print semiconductor chips onto silicon wafers, so you could conceivably

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## Camera on Chip *continued*

some light waves vibrate only in a particular direction, whereas waves in natural sunlight vibrate in all directions.

"If you think of a modern microscope, it has multiple components that have to be carefully assembled inside," Faraon says. "But with our platform, we can actually make each of these optical components and stack them atop one another very easily using an automated process. Each component is

just a millionth of a meter thick, or less than a hundredth of the thickness of a human hair."

Additionally, the new, flat lenses can be used to modify the shape of light beams at will. Semiconductor lasers typically emit into elliptical beams that are really hard to work with, and the new metasurface optical components could replace expensive optical systems used to circularize the beams. The small size of these devices would

also allow for more compact systems.

The team is currently working with industrial partners to create metasurfaces for use in commercial devices such as miniature cameras and spectrometers, but a limited number have already been produced for use in optical experiments by collaborating scientists in other disciplines.

*Science Daily, Sept. 3, 2015*

*NASA/Jet Propulsion Laboratory*



## Camera Shows Invisibles To Naked Eye

**P**eering into a grocery store bin, it's hard to tell if a peach or tomato or avocado is starting to go bad underneath its skin.

An affordable camera technology being developed by the University of Washington and Microsoft Research might enable consumers of the future to tell which piece of fruit is perfectly ripe or what's rotting in the fridge.

The team of computer science and electrical engineers developed HyperCam, a lower-cost hyperspectral camera that uses both visible and invisible near-infrared light to "see" beneath surfaces and capture unseen details. This type of camera is typically used in industrial applications and can cost between several thousand to tens of thousands of dollars.

A typical camera divides visible light into three bands -- red,

green and blue -- and generates images using different combinations of those colors. But cameras that utilize other wavelengths in the electromagnetic spectrum can reveal invisible differences.

Near-infrared cameras, for instance, can reveal whether crops are healthy or a work of art is genuine. Thermal infrared cameras can visualize where heat is escaping from leaky windows or an overloaded electrical circuit.

HyperCam, which uses the visible and near-infrared parts of

the electromagnetic spectrum, illuminates a scene with 17 different wavelengths and generates an image for each.

"It mines all the different possible images and compares it to what a normal camera or the human eye will see and tries to figure out what scenes look most different," researchers said.

Next research steps will include making the camera small enough to be incorporated into mobile phones and other devices.

*Science Daily, Oct. 15, 2015*

*University of Washington*

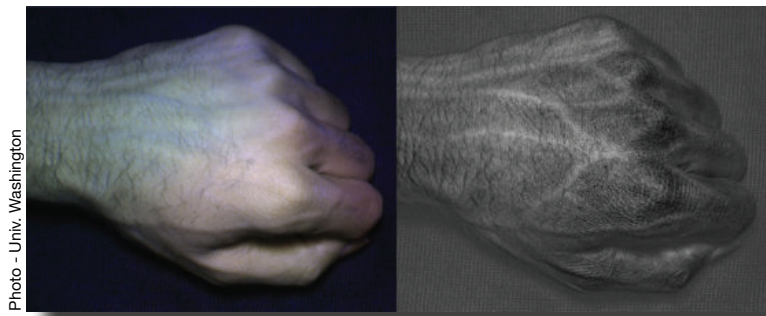


Photo - Univ. Washington

*Normal camera (left), HyperCam (right), reveals unique vein patterns.*





## What To Know

### November 2015

- 3 Challenge Night - Theme ELATION
- 10 Ed. Night, **Action/Sports Photography**
- 17 Print & Digital Competition night
- 24 Beginners Q & A – Demo night

### December 2015

- 1 Challenge Night - Theme TBA Nov. 3
- 8 Print & Digital Competition night

**Only Two Meetings  
this month**

### January 2016

- 5 Challenge Night - Theme TBA Dec 1
- 12 Ed. Night, **TBA**
- 19 Print & Digital Competition night
- 26 Beginners Q & A – Demo night

### February 2016

- 2 Challenge Night - Theme TBA Jan 5
- 9 Ed. Night, **TBA**
- 16 Print & Digital Competition night
- 23 Beginners Q & A – Demo night

### March 2016

- 1 Challenge Night - Theme TBA Feb 2
- 8 Ed. Night, **TBA**
- 15 Print & Digital Competition night
- 22 Beginners Q & A – Demo night

### April 2016

- 5 Challenge Night - Theme TBA Mar 1
- 12 Ed. Night, **TBA**
- 19 Print & Digital Competition night
- 26 Beginners Q & A – Demo night

## Where To Go

### • **Lois Johnson -**

Has a photography show in the Harris Hall Lobby of the Lane County Courthouse, 125 E. 8th Ave in Eugene. Hours are 8-5 Monday - Friday and the show will be up through November.

### • **Bill Haynes -**

A two part show, will be at Don Dexter's dental office at 2233. Willamette St. The show will have two themes:

B & W images from Eastern OR & WA focusing on agriculture & ranching lifestyle. The second part will be color images of small fishing boats from Ireland, Portugal, Italy & Morocco.

### • **Dave Putzier-**

Will have a solo gallery show up for the month of November at the Springfield City Hall Gallery. The display will be in the hallway just outside the Springfield Library. The show has no central theme and is just a collection of some of my favorite images.

**Got a show?  
We want to know!**

Send complete details  
<bittled70@gmail.com>

## Classified

### Classified Ads Free to all EPS members

#### WANTED

Nikon D4 in good condition at a fair cash price. Contact **Wayne Harrison** 541 554 2380

#### For Sale

Bogen Pro model tripod #3431. Ball head & Quick release plate \$200. Call **Don Lown** 541-942-6462 or donlown33@gmail.com

### EPS WHOLESALE print show supplies

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**\$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**

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away from home*

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### **Oregon Gallery**

199 East Fifth Avenue, Eugene

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### ***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.

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### **Vistra Gallery**

160 East Broadway, Eugene

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