The First Rule of Photography... “BE THERE!”

Beginning a new year of 4Cs Digital competition

4Cs October Digital, EPS Does Well

Take a look at these November EPS entries

(October scores & standings on next page)

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 months 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
- NPPNW Photo Workshop Information
- Ask Tim Grey - JPEG vs RAW-Background Blur
- Complete Camera on a Silicon Chip
- Camera Sees What Eyes Can’t
- What To Know - Where To Go

THE FIRST RULE OF PHOTOGRAPHY... “BE THERE!”
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

<table>
<thead>
<tr>
<th>Picture</th>
<th>Name</th>
<th>Club</th>
<th>Total score</th>
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<tr>
<td>00</td>
<td>Harvey Brown_SVCC_GreenViolet-earHummingbird</td>
<td>Spokane Valley Camera Club</td>
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<tr>
<td>01</td>
<td>JimIngraham_CAVE_BlueShadows</td>
<td>Caveman Camera Club</td>
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<td>DougFischer_FPCC_Westerner</td>
<td>Film Pack Camera Club</td>
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<tr>
<td>03</td>
<td>GrahamSmith_EPS_GrizzRocks</td>
<td>Emerald Photographic Society</td>
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<tr>
<td>04</td>
<td>KarenMcClymonds_PPS_WhenSparksFly</td>
<td>Portland Photographic Society</td>
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<tr>
<td>05</td>
<td>MaryLouPolvi_YVCC_Rocks</td>
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<td>RandyJohnson_KCCC_FarFarAway</td>
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<td>ReneeMarcov_OCPA_Here'sLookingAtYou</td>
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<td>08</td>
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HONORABLE MENTION

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<tr>
<td>09</td>
<td>Jeanne Goodhow_BMPC_TakeMeToYourLeader</td>
<td>Blue Mountain Photo Club</td>
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<td>10</td>
<td>MarkShugert_FPCC_AdventureAwaits</td>
<td>Film Pack Camera Club</td>
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<td>Neal Thompson_SOPA_CathedralStars</td>
<td>Southern Oregon Photographic Society</td>
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CLUB STANDINGS AS OF Oct 31, 2013
Tied scores are listed alphabetically

<table>
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<th>Place</th>
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<td>Oregon Coast P A</td>
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<tr>
<td>3rd</td>
<td>Yamhill Valley C C</td>
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<td>3rd</td>
<td>Southern Oregon P S</td>
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<td>5th</td>
<td>Yaquina A A P</td>
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<td>Portland P S</td>
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<td>8th</td>
<td>Grande Ronde C C</td>
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<td>99</td>
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<tr>
<td>8th</td>
<td>Meteirte C C</td>
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<tr>
<td>9th</td>
<td>Gorge P C</td>
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<td>9th</td>
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<tr>
<td>Judges</td>
<td>Monticello C C</td>
<td>Judges</td>
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02GrahamSmith_EPS_GrizzRocks | Emerald Photographic Society | 8 8 7 23 AM
05WBiddle_EPS_WesternFlicker | Emerald Photographic Society | 8 8 7 23 AM
03Jerry-Gowans_EPS_Ghost-Car | Emerald Photographic Society | 8 7 7 22
01DaveHorton_EPS_Tillicum-2 | Emerald Photographic Society | 7 6 7 20
04StephenFranzen_EPS-Raccoon | Emerald Photographic Society | 7 6 7 20

2 The Bellows November 2015
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.

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. 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.

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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 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
ShoreAcres (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

U of O Bookstore Art Department
Corner of 13th Ave. & Alder St.
20% discount on all art supplies
Q&A With Tim Grey

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?

Researchers 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 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 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 light waves travel; each wave has a polarization, like the way a wave travels in the ocean...

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This schematic drawing shows how a “metasurface” can generate and focus radially polarized light.
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

Peering 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
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

**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 Springfi eld Library. The show has no central theme and is just a collection of some of my favorite images.

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**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

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**EPS WHOLESALE print show supplies**

- **$6 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.
- **$15 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

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**Got a show?**
We want to know!
Send complete details <bittled70@gmail.com>

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**Legal Stuff**

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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 <bittled70@gmail.com>
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)

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

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

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