



International Association of
PANORAMIC PHOTOGRAPHERS
e-Monitor

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Snoqualmie Falls

2013 IAPP Conference is set!

It has been 13 months since our last IAPP conference in Gatlinburg and now we prepare for the next gathering just a hop, skip and a jump from Seattle, in the suburb of Everett, Washington. Conference dates: APRIL 14TH THROUGH APRIL 18TH, 2013!

The spring in the Pacific Northwest is absolutely breathtaking and it promises to give some of the most spectacular panoramic targets that can be found. Long time member, [Will Landon](#), has supplied us with an impressive amount of his panoramas surrounding his home town with the hopes of exciting the membership to attend what is shaping up to be the best conference yet.

Spend some time gazing at some of Will's images and imagine what you could do with your cameras at some of these locations. Once you stop drooling, proceed to the 2013 Conference Program further on in this issue.

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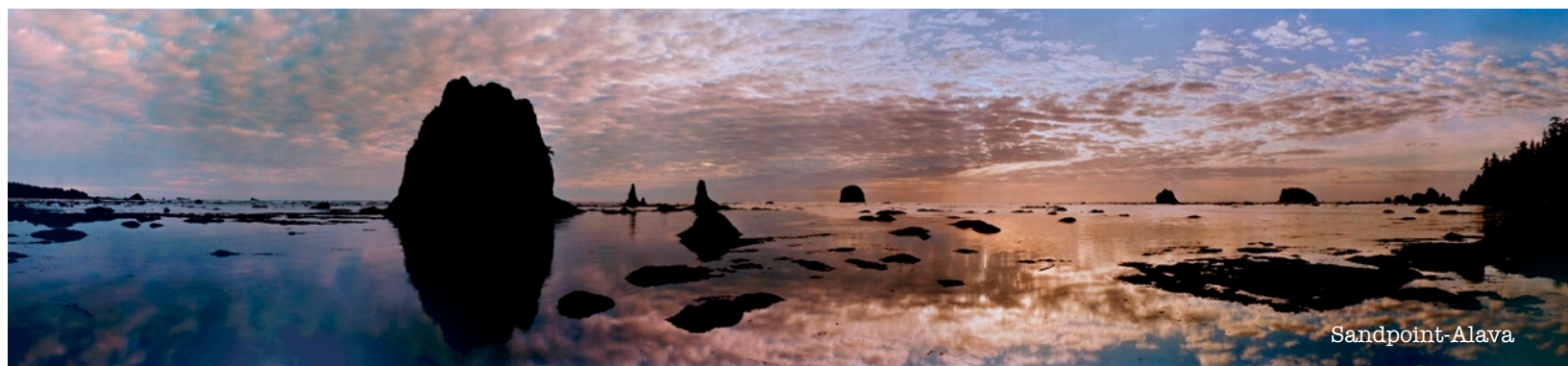
IAPP e-Monitor

The IAPP e-Monitor was designed to give our membership a quick look at what is going on with the IAPP and with panoramic photography in general. It was originated to give our membership quicker information while they await the release of the PANORAMA.

We welcome any and all articles and photos from IAPP members for inclusion into the IAPP e-Monitor. This is a publication for the IAPP, by the IAPP, and about the IAPP.

Table of Contents

- 1 IAPP 2013 Conference Setting
- 7 Conference Program
- 10 Where Earth Meets the Sky - Part III



Sandpoint-Alava



©2000 Will Landon

#21 (265) San Juan islands at sunset - ©2000 Will Landon



2709 Mt. Olympus from Obstruction Point road ©2003 Will Landon



Seattle Washington from Admiral Way, in West Seattle



Bald Eagle



RN66 Spray Falls-Mt. Rainier ©1996 Will Landon



Red & Yellow Tulips



Daffodil fields near Mt Vernon, WA



Red Tulip fields



Enough pretty pictures, how do I register?

<http://panoramicconference2013.eventbrite.com/>



Beach 2 at LaPush, near Forks



Elk in the woods



Starfish at Realto Beach - ©2008 Will Landon



Mt Baker and Cascade range from Everett



Here there be tigers



Humboldt penguins

International Association of Panoramic Photographers

Conference Schedule, Everett, WA. April 14 - 18, 2013

Everett is the birthplace of Boeing airplanes, and includes the Flying Heritage Collection at Paine Field—see www.flyingheritage.com for additional details. There is a tour at the Boeing Aviation Center, but they do not permit cameras. Everett's waterfront, once a highly industrialized area including a naval base and a large paper mill, has recently been transformed by redevelopment as a locale for seaside shopping, dining and festivities. Snohomish County, where Everett is located, has a number of waterfalls, which might be interesting to chase down. See www.snohomish.org and click on Things to Do>Outdoor>Waterfalls 14. Other thoughts will come to mind—feel free to share yours with Paul directly. Don't wait!! [Paul Speaker](mailto:spkrphot@aol.com) IAPP Conference Chairman, President-Elect spkrphot@aol.com

Day 1 - April 14 - Sunday - Arrival and Check in 5pm

Orientation for attendees (30 minutes), led by members of the IAPP Board, including welcome by President Glenn Cope, explanation of activities planned, by President Elect and Conference Chairman Paul Speaker

Print Competition turn in, and setup

6pm - Evening meal

Recommending Anthony's Woodfire Grill, 1722 W Marine Dr. Rated \$\$\$. Located with a view over the largest saltwater marina in the Northwest. Carpooling is suggested.

7:45pm - Session #1: [Glenn Cope](#)- HDR pano workshop.

Glenn will bring us a practical lesson in how to shoot Panoramas in HDR. HDR and panoramic photography— seems like a match made in heaven, but setting up a pano rig for HDR can take time, both in the field and when post-processing. Glenn will share his techniques for speeding up the process, from imaging, to processing, to printing.

Day 2 - April 15 - Monday - Sunrise at 6:18am.

Breakfast - 7am

IAPP Board meeting. This will be a working breakfast, at the Holiday Inn.

8:30am - Session #2 - [Tom Sheckels](#) - How to Stitch Panoramics with Moving Objects and Parallax Problems.

Tom will share his techniques for stitching panos with moving objects (think ocean waves, for example), including the software he uses, and how to correct parallax discontinuities.

10am - Session #3 - Working with mosaic panoramas and Gigapans: hardware and software choices explained and demonstrated; how to display and market.

Noon - Break for Lunch 1

Recommending Ivar's Seafood Bar, 1520 41st St. Rated \$. Located a little more than 10 blocks away, so we'd probably want to carpool. Reviews suggest great fish and chips on the menu).

1:30pm - Session #4 - (tentative) [Jook Leung](#), Fisheye panos.

3:15pm - Session #4 - (tentative) [Jook Leung](#), 360 VR panos.

5:15pm - Dinner, at a local restaurant.

Recommending Brooklyn Bros Pizzeria, 1919 Hewitt Av. Rated \$\$\$. This is just far enough away to make carpooling necessary. For those going on to the evening shoot, carpool would leave from restaurant).

6:30pm - Guided dusk-dark shoot in Anacortes area - an HDR pano opportunity.

Travel time estimated at just over 1 hour for 53 miles of travel, OW, to Cap Santee Park. Estimate return to Holiday Inn by 10pm.

Day 3 - April 16 - Tuesday - Sunrise at 6:16am Full day of location photography

Breakfast

8am

Carpool to flower fields shoot sites in Skagit Valley, La Conner, Deception Pass State Park, Mt Erie Park, Anacortes, Fir Island, and return to hotel at 7pm -

Dinner, at a local restaurant.

(Recommending Lombardi's Italian Cucina, 1620 W Marine View Dr. Rated \$\$\$. This is located across town, and carpools would be necessary).

After dinner socialization and/or work files from the day's shooting Sunset at 8:01pm

Day 4 - April 17 - Wednesday - Sunrise at 6:14 am

Breakfast (location TBD)

8:30am - Session #4 - Mini topics

20 to 30 minute presentations by members, maximum 2 of three

Mini-session 4A - open (contact Paul Speaker for slot reservation)

Mini-session 4B - open (contact Paul Speaker for slot reservation)

Mini-session 4C open (contact Paul Speaker for slot reservation)

10am - IAPP Member's Business Meeting

Business to cover:

election of officers,

announcement of upcoming events, etc, as appropriate

Vote for print comp entries

tally vote

Group shot - Dave Orbock, photographer

Noon - Break for Lunch

1:30pm - Session #5 - Roundtable discussion: Odds and Ends

From film to digital, from Cirkut to Gigapans, and everything in between, including focus stacking and how to make money with panos. This is the session to attend to learn the newest trends in the field of panoramic photography, as well as a review of the tried and true.

4pm - Session #6 - Mini topics

20 to 30 minute presentations by members, maximum of five

Mini-session 6A -

Mini-session 6B -

Mini-session 6C -

Mini-session 6D -

Mini-session 6E

6:30pm - Dinner, location - Holiday Inn

(Recommending the Pacific Northwest Favorites Dinner Buffet, which should satisfy just about everyone who doesn't have specific dietary requirements.)

8:30pm - Session #7 - Visual recaps of France and Cuba trips;

Dave Orbock's Balkins, Benjamin Porter's Myanmar trips

Announce print comp winners

Take down print comp afterwards, socialization

Day 5 - April 18

Breakfast at a location TBD

Farewells to those departing for home

9am - IAPP Board Meeting, New and old (Mandatory).

Organize, and review goals/plan for next conference.

NOTES:

1. Over the past few years, the weather has been typically cool, in the mid-50s during the day, with scattered clouds and occasional light showers passing through—wait long enough, and the weather will change!!
2. Possible Print Competition rules, check website often for updates. Maximum size of 14x44, either horizontal or vertical orientation, for non-Gigapan style prints with a 2" white border all around, so the actual image size will be 10x40, a 4:1 ratio, on the 14x44 paper. Other styles of panos, including little planet and gigapans, the largest dimensions should be 44x44.
3. The photo opportunities, while guided as far as location, will be structured so that images derived therefrom are eligible for PPA-style Image Competition, if the maker so desires.

Where the Earth Meets the Sky - Part III

—Bryan Snow

Over the last two months I have been talking about and showing some of the large historical telescopes made in the early 20th Century and located in southern California. This month I would like to inform you of where and how some of the optics for the newer, larger telescopes are made.

In the old days the giant mirrors were made from glass melted in a large furnace and then poured from giant ladles into disk-shaped molds where the glass disk was kept heated. The temperature was then slowly reduced over months of time to keep the outside of the glass disk from cooling faster than the inside, thus decreasing the chance of the disk cracking from thermal contraction.

Today's glass mirrors are fabricated differently. In Tucson, Arizona, in the southwest United States, is located the Steward Observatory Mirror Lab. This facility has been responsible for creating some of the largest mirrors for new observatories to date. Instead of glass being heated in an furnace and then transferred to a mold to cast the mirror, the Mirror Lab constructs a giant oven on an equally giant turntable to spin-cast the mirror - a procedure that molds the mirror disk and gives the mirror its near focal length at the same time.

Most telescopes of the previous centuries, such as the 200 inch telescope I wrote about last month, were cast as a large disk, and then delivered to their optics laboratory where, over a period of several years, the disk is ground and polished to a concave surface at the proper focal length and figured to the desired optical configuration. That was the old way. At the SOML, an oven is assembled to the desired diameter of the optical disk, a series of ceramic molds are bolted with high-temperature ceramic

bolts to the inside of the oven, where they will allow the glass to be molded with a ribbed internal structure that will support the disk with far less glass than it would have if it were solid. This lightens the final mirror and allows the mirror to cool down to nighttime temperatures much faster than it would if it were solid.

When the pieces of pyrex-type glass are placed in the oven/mold, the heating elements are turned on and, as it nears the melting point, the oven begins to spin. The rate of spin, the rotations per minute or rpm, depends upon the desired focal length of the mirror. The faster the spin, the deeper the curve in the mirror or the shorter the focal length. In this way, the focal



8.4 meter Mirror oven being assembled

length is generated by the rotation rate of the oven. Once the glass is melted and the oven is spinning at the correct rate, about 4 rpm, the liquid glass forms a curve as the spinning force pushes the molten glass from the middle towards the edge of the mold. The oven continues its constant rotation rate for about a week, as the temperature of the oven is gradually reduced. Once the glass has solidified the oven begins to gradually cool down over a period of about 3 months until it has cooled to the ambient temperature of the building. At this point, the

oven stops its rotation and the top is opened and the oven is disassembled to reveal the completed mirror, complete with a formed curve to match the focal length of the telescope. Fine grinding, polishing, and final figuring take several more months, but when finished the mirror is ready to take its place in the telescope.

The Mirror Lab is presently working on building seven individual mirrors, each 8.4 meters or, roughly 27 feet in diameter. This 8.4 meter diameter is the maximum size that they can currently make because, anything larger than that would not be able to be transported along the interstate highway system in the United States. When finished, the seven mirrors will be assembled into what will be known as the Giant Magellan Telescope. This giant will be the world's largest telescope and will have the equivalent diameter of 21.5 meters, or 846 inches, or 70.5 feet. This is over 4 times the size



8.4 meter mirror blank on mobile platform being readied for fine grinding and polishing. The mirror will be moved under the beam that is currently to its left. The grinding will begin and as the surface is being ground, testing will be done as the curve is gradually refined into the final shape.

of, what used to be the world's largest telescope, the 200 inch telescope on Mt. Palomar.

For more information see the following videos:

<http://www.youtube.com/watch?v=uFlqVvZnE68>

<http://www.youtube.com/watch?v=Ta7KqEUcPx0>

Replacing my MAC monitor

—Will Landon

The G4 MAC computer hooked up to a Fuji 2750 12x18 scanner and a Roland eight color wide format printer is a very important duo for some one still working with film and making large prints. When my main monitor went poof, scanning and printing stopped even though there were backup files on separate back up discs attached to the computer. With the help of my son and grandson they came up with an elegant solution that exceeded the quality of the original equipment by a large margin. I will share it with you since you all could face the same problem.

1. The stock MAC G4 monitor adapts to the G4 with an ADC plug peculiar to that generation of Apple computers only. The plugs were changed on all subsequent generations, and Apple did not offer adapters to the subsequent models. Bummer.
2. Belkin products picked up on that and made an adapter cable from any DPi cabled monitor to a G4 computer with its ADC interface. The best monitor on the market with interfaces to DPi, HDMi, and VGA plugs is made by Hewlett

Packard called the HP 2711 x monitor, with a part number of XP600-60001. It has a 27 inch diagonal screen and a maximum resolution of 1920 x 1080. It comes with VGA and DPi cables. It is an LED backlit LCD monitor, and has its own power source, full brightness and a host of other controls. The Belkin ADC to DVi monitor adapter part number is T2774G/A. It was purchased from FRY's. The monitor was purchased from STAPLES. It is a dream to work with.

Offer to Membership

I have a few first edition copies of my book "Glacier Panorama" left in inventory, while the second edition is still selling quite well. [Amazon.com](http://www.amazon.com) has used copies that often go for more than the original selling price of \$50.

I would like to donate autographed copies to any IAPP member contributing \$100 to the IAPP general fund as an assist in getting the next conference committed and scheduled.

Will Landon

<http://www.amazon.com/Glacier-Panorama-photography-Will-Landon/dp/1560371900/>

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