



# Panoram

Of the  
**Oakland Camera Club**  
 Member of the  
 Photographic Society of America  
 and

Northern California Councils of  
 Camera Clubs

Jim Johnston, President  
 Harold Baize, Editor and  
 Stereo Division Chair

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## Advances in Full Color Anaglyphs

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Full Color Anaglyph

By Harold Baize

As I have said before, anaglyphs are an easy way to share our lovely stereoscopic photographs. In the April *Panoram* (Volume 65, issue 4) I described how to make a gray scale anaglyph using Adobe Photoshop. "Well, that is all fine and dandy, but what about color?" you ask. Ah, that is quite a can of worms. One thing is the retinal rivalry that happens when you try to keep the original color of the image while using color to convey depth. The rich reds and blues of the photograph interfere with the red and blue information of the stereo photograph. A red object will almost vibrate, alternating between being seen as white by one eye, and black by the other. Not easy to look at! Another problem is that the color in the photo will be distorted by the red and blue

glasses. In my own work I tend to try both a full color anaglyph and a gray scale and see which works best. Sometimes the colors in the image do not create too much retinal rivalry or look terribly distorted in the red/blue glasses. If the image contains a lot of red or very bright colors it is usually best to use a gray scale anaglyph.

Recently there have been some advances in anaglyph alchemy so to speak. One popular variation on the full color anaglyph has been dubbed the "True Color" anaglyph by Boris Starosta who introduced the method to the Photo-3d

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"True Color" Anaglyph

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mail list about two years ago. In many cases the True Color anaglyph will seem to have more accurate color and less retinal rivalry. The example printed on page one displays some of the advantage gained with the True Color method. There is less retinal rivalry when looking at the flame and the red road markers and in general the colors seem a little less distorted. At the same time however there is less red in the image and still color distortion remains.

A new choice in the color anaglyph array of methods is called *Akumira*. Akumira is a process developed by John Shultz at Brightland, Inc. As described by Boris Starosta the process is a computer controlled pixel by pixel optimization of the color balance in the image. In examples that I have seen the process does result in a color anaglyph that is better than the True Color, although colors are still dis-

## *Sports Illustrated Does It Again*

In the May *Panoram* (Volume 65, Issue 5), Ron Labbe reported the inner workings and details behind the special 3D Swimsuit issue of Sports Illustrated. The story described the trials and triumphs of David Klutho in his efforts to bring stereo photography to mainstream magazine publication. The Swimsuit issue was a success for both Sports Illustrated and stereo photography. Now SI has done it again, this time the subject is the 2000 Summer Olympics rather than cheesecake, er,... I mean swimsuits. The magazine has 22 pages of anaglyphic stereo photographs from the Olympics, plus eight pages of stereoscopic anaglyphic advertisements.

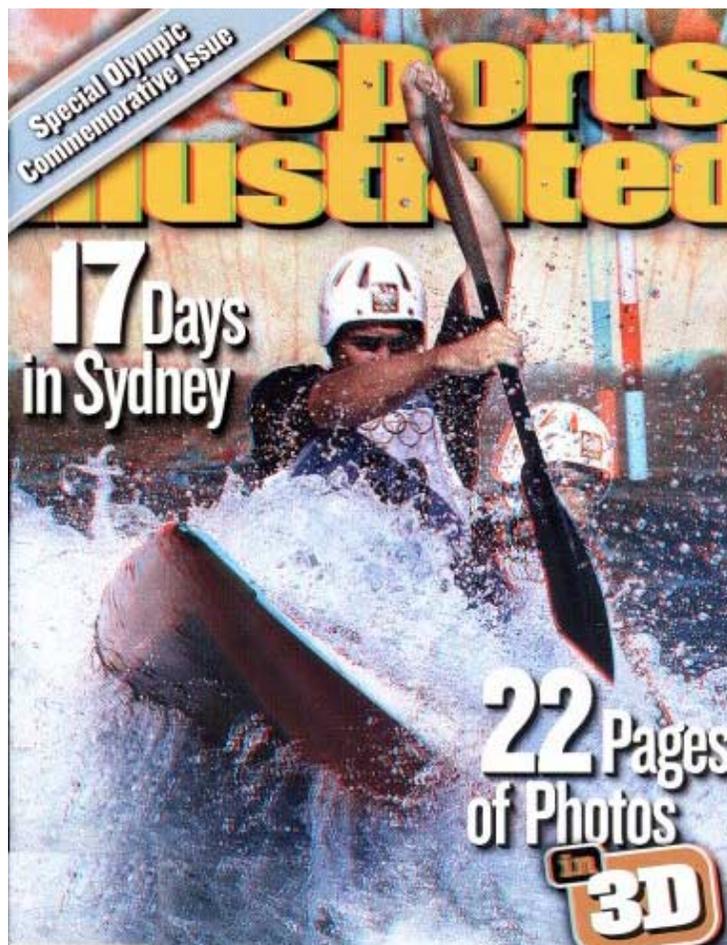
The publication bodes well for stereo photography. It also has a short article describing some of Klutho's techniques and even talks about his efforts to take the stereo window into account. Many of the images are excellent, in particular the stereo photographs of splashing water frozen in time and space. On the other hand some of them have very noticeable grain, probably due to the need to use high speed film in low light environments while shooting through lenses with long focal length. On the whole I find this collection of photos as reflecting more of the problems discussed in the previous article, *Advances in Full Color Anaglyphs* when compared to the pictures in the swimsuit issue. This is probably due to the lack of control over the color composition in the shots. At the Olympics you cannot stop athletes from wearing green and red suits or displaying colorful flags. The special issue will be on newsstands until November 10th, so get your copy soon.

-Harold

torted, especially reds. Currently the process is only available as part of an animation viewer made by Brightland, Inc., (<http://www.brightland.com>) however Shultz has stated that he is considering making it available as a standalone computer program for converting stereo pairs to Akumira anaglyphs. One complaint made about the Akumira anaglyphs is that they look more natural when wearing the red/blue 3D glasses, but less natural when viewed with out glasses.

Making a full color anaglyph with PhotoShop is actually a little easier than making a gray scale one. Basically it is the same but you skip the step of converting the original into a gray scale image. First open both left and right image files. Select one of the files. Click on the ► arrow on "Channels palette" then chose SPLIT CHANNELS. Repeat for both the left and right image. Next click on the ► arrow, chose MERGE CHANNELS. Click OK on the Merge Channels dialog box. A new dialog box will open with three selection boxes. Put the Red channel from the left image in the Red selection box,

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and chose the left image for the green and blue selection boxes (see the April *Panoram* for a more complete description). Click OK and you will have a full color anaglyph. To make a "True Color" anaglyph you first make the left image gray scale, and set the mode to RGB before splitting channels. Then merge the channels as described above. Again, to make the True

Color you use the procedure described for the gray scale for the left image, but do not convert the right image to gray scale before splitting channels. Ultimately, very good anaglyphs require careful adjustment of the color intensity of the split channels, a feature available in recent versions of PhotoShop.

-Harold

## Winning Slides and Cards of 2000 (Note: List may not be complete)

### Stereo Slides:

#### Harold Baize

*Rani*  
*Glass on Blue Silk*  
*Glass Quilt*  
*Yellow Flower in Glass*  
*Ouch*  
*Florida Roots*  
*More Glass*  
*X-15*  
*StarChild 2: Saturn Rising*  
*Over Easy*  
*Two Times*  
*Lonely Rock*

#### John Bercovitz

*Big Train*

#### Barry Bieler

*Bow Wave*  
*Curled up*  
*Emerging from Wool*  
*Minerva Terrace*

#### John Bonwell

*Holding Her Line*  
*Gem State Awaits*  
*White Fresia*  
*Small Craft Welcomes Eagle*  
*Angels Flight Funicular LA*  
*Red and Fuzzy*  
*Red and White Boat from Redoak Victory*  
*Death in the Short Grass*  
*Come Closer*  
*Turning Jeremiah O'Brien*  
*Balloons in Hanger One*

#### Chris Cavigioli

*The Big Guy Pulls on the Cables*

#### Kevin Chou

*View from the Chopper*

#### Ivy Feibelman

*Candy Dish*

#### Harold Hatfield

*Dead Horse Point*

*Nature Monument at Monument Valley*

#### Earl Henry

*Juniper Growing in Granite*  
*Lady by the Lake*  
*Coming Through*  
*Floating Leaf*

#### Jim Johnston

*Biplane Cockpit*  
*Wave Crashing on a Coral Shore*  
*Coconuts on Tree*  
*Hotel Chandeliers*  
*Pink Blossoms*  
*Green Leaves*  
*Dried Flowers and Barn*  
*B-25 Bomb Bay*

#### David Thayer

*Fluffy*

#### Oleg Vorobyoff

*Working Late*  
*Sunstruck Maples*  
*Baby Trees, First Snow*  
*Canadian Twilight*  
*Beaver Pond Rockies*  
*Pink Ladies*  
*Good Morning California*  
*Traffic on I-5*  
*Oak Branches, Early Morning*  
*Corner Window with Reflection*  
*Early Dawn from Oakland*  
*Pavement Ends*

#### Stereo Cards (partial list):

##### Barrie Bieler

*Red, yellow and Green Catus*  
*Two of a Kind*  
*A Hiker Looks at Long's Peak*  
*Salsify Seed-Head and Leaf*  
*Hanging Whiskers*  
*Northwest Leg of the Salomon Glacier, Alaska*  
*Pink and Blue Solarization*  
*Apparition*

##### Kevin Chou

*Listen to the Music*

## The OCC Calendar

**IMPORTANT: Bring your winning slides and cards for 2000 to the November meeting so they can be included in the end of year judging!! Bring all place winning slides (not HMs). If you have less than two winners you may enter another slide (for a total of two) from those you have entered into monthly competitions.**

**December 5th, NO MEETING.** Instead we are having our annual luncheon at Francesco's 11:30 am Saturday December 9th. This will include the installation of officers for 2001 and the slide show of the year's best stereo slides.

**Foto Clave 2000** will be held November 10, 11 & 12 in Sacramento. Friday evening's speaker will be Albert Sieg, FPSA, EPSA. A great stereo photographer and President of the Photographic Society of America.

**Tuesday, November 14th,** Larry Kilburn will judge our best stereo slides and card winners from the year 2000. Judging will take place at the Salem Lutheran Home.

### Stereo Division Meeting

The Stereo Division will meet **November 7th** at 7:30 pm at the Salem Lutheran Home. Note that this is also election day, so go out and vote early. Our program for the evening will include both our regular competition in stereo slides and cards, and a clinic.

Please bring three stereo slides and four stereo cards for the November competition., and up to 5 slides for discussion for the clinic. Clinics are also a good time to bring things to show and tell, like a brand new RBT camera (and you know who you are :-).

The Commentator-judge for our November 7th stereo division meeting will be Bibi Chapman, FN4C, HN4C. Bibi is a life member of the Berkeley Camera Club. She has served as N4C Treasurer, Vice President, President of Pictorial/Travel, Slide Chair, and Foto Fan Fare Editor. She attended the Travel and Journalism Judging Seminar and has taken

### Meetings:

Oakland Camera Club Stereo Division meets on the first Tuesday of every month except December.

Our meetings are held at the Salem Lutheran Home, 2361 East 29th Street, Oakland California, at 7:30 pm. The Salem Lutheran Home has installed a security gate. Don't be alarmed. Just press 001 on the number pad and tell them you are with the Oakland Camera Club. There is ample parking available in a lot below the main building, take the first right turn after you enter the gate.

### OUR WEB ADDRESS

**[www.3dculture.com/occ](http://www.3dculture.com/occ)**

### CLUB E-MAIL:

**[occ@3dculture.com](mailto:occ@3dculture.com)**

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may local classes in photography She competes in all slide divisions.

Philosophy: Bibi is a retired school teacher and feels that a judges main function is to teach. She believes technique, composition and interest carry equal weight in photography. A prize winner will manifest all three.

### October stereo slide competition results, judged by Jim Sherwin:

#### Group A

1st <i>Coming round the bend</i>	Eddie Hosey
2nd <i>Reflective</i>	Barrie Bieler
3rd <i>Turning Jeremiah O'Brien</i>	John Bonwell
HM <i>Balloons in Hanger One</i>	John Bonwell

#### Group B

1st <i>Lonely Rock</i>	Harold Baize
2nd <i>Dried Flowers and Barn</i>	Jim Johnston
3rd <i>B-25 Bomb Bay</i>	Jim Johnston
HM <i>Face the Light</i>	Harold Baize

### Special Competition- Double Exposures

1st <i>Pam Light</i>	Harold Baize
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### Slide/Print Division

The next Slide/Print meeting will be November 9th at the home of the Jim Callahan, please call to reserve your space. There is no December meeting, but the first 2001 meeting will be at the home of Bob Baker on January 11th, and the February 8th meeting at will be at Barry Bieler's home.