

PANORAMA



THE MAGAZINE OF PANORAMIC IMAGING

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Panorama is a publication of the International Association of Panoramic Photographers. Our offices are located at the various addresses listed below:

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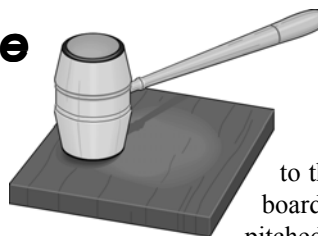
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Presidents Message

By Fred Yake

In May, it will be an honor and pleasure for me to pass the IAPP gavel to Denis Tremblay who I know will do a great job as President. Denis and I have become good friends through our years of involvement with IAPP.

I would like to thank Addie Lorber, our Secretary/Treasurer who has done an excellent job of running the day to day operations of IAPP, keeping track of our membership and handling the bookkeeping. Addie has been a great assistant to me during my term.



I would also like to thank our great board members who pitched in to help on the many projects I started during my term.

Thanks also to Warren Wight for developing and operating a very nice looking web site as well as publishing an ever-growing *Panorama* magazine.

A special thanks to all of our advertisers and sponsors who took my phone calls and were kind enough to support such new programs as the IAPP Camera Drawing, Membership Guide as well as a

great deal of support for our International Convention.

Of course, I want to thank all of the IAPP members who volunteered on new projects, conferences and those who answered my call for articles and images for *Panorama* magazine.

The last issue in 1993 had 16 pages and 4 ads. Our last issue in 1997 contained 32 pages, 8 pages in color, and 16 advertisers. IAPP is offering more to its members and has clearly grown. I have enjoyed serving IAPP and being a part of that growth. ■

Secretary Says IAPP Getting Better and Better!

By Addie Lorber



As you peruse this issue you will find the financial statement for 1997. IAPP revenue has increased due to an increase in membership dues and raffle income. We also collected additional revenue from advertising in our membership guide and on our web site, which helped offset the additional development costs.

The officers and IAPP board of directors have worked diligently over the past 18 months to move the organization forward as the professional organization that it is. First and foremost, we have gained nonprofit status. Second, we are putting out a first-class membership guide. Third, we have a beautiful membership brochure, which can be distributed with cameras sold, and handed out at trade shows. Our web site is a must see and Warren is doing a great job maintain-

ing it. We have gained new members as a result of it!

1998 has been good so far too. I wish to thank those members who have taken the time to fill out the renewal form. (It's main purpose is to aid in updating the database and correcting any mistakes or omissions of vital information. Members who have not renewed will be receiving a post card instead of this newsletter.

Last, I am very excited about the Convention in Moab. Judging from the responses I have already received, so are many of our members. If you haven't already registered, please do so today. There will be activities for everyone including a 6-hour boat trip on the Colorado River. It is also one of the most picturesque areas around to photograph and simply enjoy.

I look forward to seeing you there. ■

New IAPP Gear Available!

IAPP Cap - modern low profile design, brushed suede visor, cream with blue leather adjustable strap, \$9.95

IAPP long sleeve shirt - heavy duty denim that's soft as can be, looks great, washes up well, large and XL, \$29.95



Announcing The Richard Fowler Education Foundation

The Board has voted to establish *The Richard Fowler Education Foundation*. Once established this foundation will provide long term benefit to IAPP and its members.

Being a tax-exempt association allows us to solicit grants and donations from government, large corporations and private individuals for the foundation.

Donations can be used for any purpose, which informs the public or educates our members about panoramic photography or to even award a scholarship.

Memorial funds may also be established in the names of founding members or under any name a member wishes to donate.

More information in regarding the Foundation will be announced in the near future in *Panorama*. ■



From the Board The State of the IAPP

The President and the Board have worked hard over the last eighteen months to offer our members more, and to increase recognition in our communities. Many of these projects are behind the scenes and you might not necessarily be aware of them.

- We sought and secured a tax-exempt status for IAPP and we now operate as a non-profit association.
- Members hosted two very successful conferences in Paris, France and Boca Raton, Florida and added money to our treasury.
- A program was established for our members to become Qualified Panoramic Photographers, which you asked for at the Cherokee convention.
- We have established an Annual Membership Directory almost totally supported by advertisers, saving IAPP money for other projects.
- The IAPP Boutique and Bookstore was started with a few items and some educational material and is operated by Ron Tuttle. The boutique will continue to grow with items of interest and will be a clearinghouse for reference and educational material in the years to come, while bringing in additional income.
- IAPP also developed a new web site

with our own registered domain so it will always be under the control of the association. The web site is supported by advertising, so there is no expense to the association, and it's even turning a profit for IAPP and is frequently updated with news and information. The site receives over one hundred hits per day as well as numerous inquires of interest about IAPP.

- We have increased participation from our members and advertisers, enabling us to upgrade the look and quality of our publication, *Panorama*.
- An IAPP Membership Brochure was produced and vendors distributed many during the PPofA convention in Las Vegas. Most major panoramic camera distributors offered to enclose our brochure in the packaging of their cameras. Also a program for a complimentary one year membership sponsored by two panoramic camera manufacturers was initiated, several others have expressed an interest in participating.
- A revision of the bylaws was written and will be voted on in Moab. You can review the revised bylaws on page 24.
- The Board also established and successfully worked under a new Policy and Procedures guide. This guide establishes IAPP policy and responsibilities and duties of the Board members.

- International liaisons were added to the Board. Members now represent IAPP in Australia, Japan, Italy, Switzerland and China. These members are working to increase our international membership and awareness.
- With the generous help from two panoramic camera companies and several members, IAPP is offering tickets for a drawing on two panorama cameras, as well as additional prizes. The profits will be used to produce color images in *Panorama* magazine.
- Since we are affiliated with the Professional Photographers of America (PPA) we submitted and were given a listing in the upcoming events section of the magazine for our International Convention.
- This monthly publication reaches thousands of professional photographers. With a lot of persistence we successfully secured a Panorama classification within PPofA for our members, that classification is CPA.
- Being classified as a non-profit association enabled your Board to vote and establish an Education Foundation.
- Your Board members have devoted many hours during the past 12 months preparing for our International Convention. It should be a great convention and we hope to see you there. ■

Still Need to Register for the IAPP International Convention?

You can use the registration form in the February 1998 issue of *Panorama* magazine or get it from the IAPP website at:
<http://www.panphoto.com/MoabRegistration.html>

Paying By Credit Card?
**IAPP accepts VISA
and MasterCard ONLY.**

VR News

By Warren Wight

Jeffrey S. Callahan, VR Project Manager at CalStar Virtual Reality Technologies, LLC., located in Raleigh, NC near the Research Triangle Park area sent the following announcement.

For some time now we have been quietly developing a very advanced digital panoramic viewing system based on some very innovative and exciting Virtual Reality technologies. The purpose of this email is to alert you and your IAPP members to the fact that we have, after two years of research and development, created a fully functional Immersive computer system based around CalStar VR proprietary software, that actually allows a user to view digitized high-resolution panoramic scenes *from the inside*.

The user of this system wears a low-cost, high resolution *Head Mounted Display* and can view a 360° panoramic scene in real time as if they were standing within it from a central vantage point. The PanaPhotoVR(tm) system constitutes a breakthrough in the remote viewing of locations and will be made available to the Real Estate, Manufactured Housing, Travel Agency, Web Design, and Photographic vertical markets by the beginning of April 1998. Viewing a 360° panoramic scene with such realism and the feeling of 'actually being there' has, with the advent of our low-cost system, taken on a brand new meaning. In conjunction to the VR system aforementioned, we have also produced, as companion products, an advanced multi-axis JAVA panoramic viewer and a stand-alone viewer program

for users without the necessary native visualization hardware. A Netscape and MIE compatible web-browser plug-in is also in a very late stage of development and should be deployed for sale soon. The implications are obvious.

Our first demonstration panoramic examples were digitized using Leaf Systems Lumina digital scanning cameras and an experimental servo-controlled automatic pan/tilt system that uses our own real-time rapid-process photostitching software. However, at the time of this writing I can divulge to you that CalStar VR Technologies also has a low-cost fully digital wide angle panoramic VR camera system that will definitely go into production for our customers in the very near future. We think it is extremely important that our

peers in the somewhat experimental and highly innovative field of conventional and digital panoramic photography are kept informed of our breakthroughs, as feedback from these peers helps us to design and market ever-evolving and more robust products.

I will personally keep IAPP informed of any other press release information available in the near future, as we here at CalStar VR Technologies feel that this exciting breakthrough product has far reaching potential and uses to the panoramic photography community.

*Jeffrey Scott Callahan, Virtual Reality Project Manager and co-founder CalStar Virtual Reality Technologies, LLC
Raleigh, NC. calstar@mindspring.com.*

More VR News, page 21

Spin-O-Rama

By Joseph DeRenzo

On January 8th of this year, members of the IAPP were on hand to participate in the IQTVRA Spin-O-Rama. Held at the Moscone Center in San Francisco during the Macworld Expo, the event was sponsored by Kodak, Kaidan and the

IQTVRA. IAPP members Liz Hymans, John Gateley, Joseph DeRenzo and Tom Lamb lent their panoramic talents to the immersive imaging extravaganza. All the node-crazy participants were given a map with coordinates for each photographer.

At 12:01 pm everyone began photo-

graphing 360° images that would later be linked together to create a multi-node virtual tour of the area. Afterward, there was, as you can imagine, a group photo opportunity. Armed with his trusty Hulcherama, John Gateley captured (yep, you guessed it) a 360° image showing the

mugs of over 80 people, who by then, were quite dizzy from a day of Spin-O-Rama (below).

Go to the Panoramics NorthWest website News page at www.pansnw.com to see the results and find a link to the IQTVRA website. ■



Ice Pans

These photographs were taken by Alvis Upitis during the annual ice fishing contest held on Forest Lake, Minnesota. 15,000 holes are pre-drilled for the 6,000 contestants who have three hours to compete for boats, pick-up trucks and trips to Hawaii.

Alvis used his Noblex 150F and Plus-X film to capture the contest.



Web Report panphoto.com

By Warren Wight

The IAPP Website just keeps getting better! In a constant effort to keep our website fresh and new, I have redesigned the banner area at the top of each page, not only making it more attractive, but the new design makes it easier to add or change banners. This will allow our website sponsors to change their banner (advertisement) easily.

There has been lots of information added to the Moab '98 Information page. There is even a registration form for the Convention available online, so if you haven't registered yet for the convention, just click your way to our website and follow the links to the registration form, or go there directly, the address is: <http://www.panphoto.com/MoabRegistration.html>.

The Member Gallery keeps getting bigger, with more images being added all the time. If you would like one of your panoramas in the Gallery, send IAPP the photo and a description and I will include it in the Gallery.

The new IAPP cap and long sleeve denim shirt can be purchased through the Online Boutique, as well as all the other official IAPP gear.

I have just received a packet of information from Jeff Weisenburger on Cirkut cameras and am in the process of adding a complete Cirkut section to the site. Stop by and check it out. It might be online before you get this issue of *Panorama*. ■

panphoto.com

IAPP Goes Down Under

By Colin Bullard

We are in the final stages of putting together a regional meeting of the IAPP in Australia....The date, Sunday May 17, 1998, the place Sydney, Australia. It will be held in conjunction with the Australian PMA convention and trade show at Darling Harbour right in the middle of the city.

The PMA show is an annual one and normally travels between the 3 states on the eastern seaboard of Australia and this year it's our turn. It attracts photographers from all over Australia and runs for 3 days, similar to the American PMA convention only smaller.

Attendees would be welcome to attend the PMA trade show on the Friday or Saturday; our meeting is from 11:00 am till 5:00 pm, Sunday May 17, 1998. I will be shooting a Cirkut at one of my schools on the following day Monday 18, where all would be welcome to come and watch. Depending on how many people attend from overseas we will look at shooting various scenes around Sydney on the Tuesday and Wednesday if necessary. Accommodations can be booked through the same company handling PMA accommodations.

For more information e-mail Colin: cirkutoz@acay.com.au. Or phone +61 2 9816 4277 or +61 2 9816 2509. ■

IAPP International Convention • Moab 1998

Panels & Workshops

Two panel discussions are on the program for our International Convention: Selling your Panoramic Photographs and Virtual Reality and Digital Photography. Several of our members who have been successfully marketing their panoramic photographs will share their ideas and offer strategies. The panel will take questions from the audience. Several members working in the field of virtual reality and digital photography will offer a three-hour special interest workshop. The panel will show you how they are produced and show various computer programs and have samples of digital prints.

There will also be four additional special interest workshops: Cirkut Camera Use and Maintenance, presented by Jim Johnson; Publishing or Advertising in Panorama Magazine or on our web site, presented by Warren Wight and Handbuilt Cameras and Their Use, will

be presented by Tom Fuller. A two-hour workshop will be given on Stock Photography; both creative considerations as well as business procedures will be discussed. The presenters have edited images for stock photo agencies as well as purchased pictures for use in magazine and textbooks. There will be time for 10-minute mini portfolio reviews for those attending the workshop.

Saturday morning will be special. All attendees will move to beautiful Monitor and Merrimack Overlook where we will take our official group photo and then move out along the overlook for hands on workshop featuring all of the major panoramic cameras. Exhibitors will show you how their various cameras perform in the field. This will be a chance for you to work with these cameras in a scenic environment. Some of the film will be processed and you will be able to view the results later that day. ■

Moab Tid-bits

Our headquarters hotel will be the Moab Valley Inn, 800-831-6622. Additional hotels and restaurants within walking distance are Comfort Suites - 800-228-5150, Silver Sage Inn -801-259-4420, Super 8 Motel - 800-800-8000.

JB's Restaurant is next door, McDonalds and the Moab Micro Brewer are across the street with Wendys, Subway and the Cattleman's to name just a few only a short drive away. Upscale dining is available at The Grand Old Ranch House.

4x4 and auto rentals are available through Thrifty Car rental, 800-367-2277 and Budget, 888-806-5337. Some 4x4 tour companies - Navtec Expeditions, 800-833-1278; Adrift Adventures, 800-874-4483 and Tag Along Expeditions, 800-453-3292. Canyon Country Horse Back Trail Rides 801-259-6439, Park Creek Ranch 801-259-5505. Moab Photo Lab, 801-259-4181. Shuttle services throughout Moab area West Tracks, Moab Valley Inn 801-259-2294. Heli See Helicopter Tours, 801-259-3966. ■

Program Presenters

Cirkut Camera History

Jim Johnson is CEO of American Slide Chart Co. of Wheaton, Illinois and as an avocation collects Cirkut and other panoramic cameras and images. His collection includes all varieties of the cameras, including interesting variations. Among those are the first #10 built, the second to last built, the apparent prototype #5 camera and an experimental #10 Outfit. And his collection of images consists of several hundred views, many railroad related. Along with Bill McBride, he has been cataloging existing Cirkut and other old pan cameras, with several hundred now known. This has helped in understanding the historical nature of the equipment's manufacture. He is considered an expert on the mechanics that make the old Cirkut cameras work, and has a large collection of original factory repair parts, which he shares with the community. He has reprinted most of the old operating manuals and the booklet "Cirkut Method", the 1916 catalog of all models. ■



"Excuse me, do you mind if I ask, what that is?"

Street Photography and the Panoramic Camera

Alan Zinn, artist, photographer and graphic designer, received his BFA from the University of New Mexico in 1970. He studied at Art Center College of Design, Los Angeles and received his MA, Photography, from Wayne State University, Detroit in 1990.

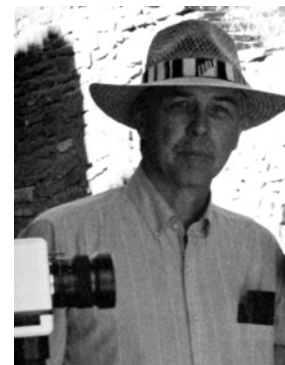
Alan is an instructor of photography, graphic design, and computer graphics.

He will demonstrate the Lookaround 35mm rotating camera and will discuss

shooting hand-held and action pans for street photography. He has used the Lookaround camera since 1974 and now builds the camera for sale.

It uses standard SLR lenses and 35mm film, can be hand-held and used in any axis. It is constructed of hard wood and is available for most popular SLR lens makes. The unusual camera rotates as it makes pictures without the customary motors and gears found in panoramic cameras making it very reliable and easy to use.

There will be many types of pictures made with the Lookaround available to examine and compare with other panoramic camera images. ■



Convention Program at a Glance

Tuesday - May 5

7:30 pm - Early registration and Soda Social

Wednesday - May 6

8 - 11 am - Registration, photo display set up, Boutique

10:30 am - Coffee

11 am - Official opening of Convention - Slide show presentation on Moab, introduction of exhibitors and products.

1 pm - Lunch and field trips

2 - 3:30 pm - Panel - How to Market your Panoramic Images.

3:30 - 5 pm - Special interest Workshop #1 - Hand built cameras

Special interest Workshop #2 - Website & Panorama Magazine

Dinner break

6:30 pm - Sunset Safaris

7 pm - Exhibit tables, roundtables, swap meet, networking

Thursday - May 7

5:30 am - Sunrise Safaris

8 - 10 am - Registration

9 am - Speaker - Digital Age

10 am - Speaker - Antique Cameras & Images

11 am - Coffee

11:15 am - Speaker - Panoramic Camera Comparisons

12:15 pm - Lunch and field trips

1 pm - Spouses - Colorado River Boat Cruise

2 - 4 pm - Special interest Workshop #3 - Stock Photography

Dinner break

6:30 pm - Sunset Safaris

7 pm - Exhibit tables, roundtables, swap meet, networking

9 - 9:45 pm - Qualifying test for QPP

Friday - May 8

5:30 am - Sunrise Safaris

8 - 9 am - Registration

9 am - Business Meeting

11 am - Coffee

11:15 am - Business meeting continues, if necessary or Speaker

Noon - 1pm - Speaker - Immersive VR Panoramics

1 pm - Lunch - Safaris - field trips

2 - 4 pm - Special interest Workshop #4 - Cirkut Cameras

2 - 5 pm - Six Member Panel - Digital & VR for Panorama

Dinner break

6:30 pm - Sunset Safaris

7 - 9 pm - Canyon Lands by Night River Cruise

7 pm - Exhibit tables, roundtables & networking

Saturday - May 9

8 am - All attendees move to - Monitor & Merrimak Overlook

9 am - Group photo at overlook - followed by workshops with various cameras at the site.

Noon - Afternoon free

7 pm - Banquet - Awards, Drawing, introduction of New Board

Schedule subject to change.

Moab At A Glance

By Alan M. Bank

Chairman - Exhibition Committee

The IAPP convention is just around the corner and I wanted to share some interesting facts and statistics about the area that may encourage you to make a positive decision to attend our best planned convention to date.

The dazzling scenery around this former mining town of 5,200 is world class. Hollywood used it for settings in the "Greatest Story Ever Told", "Indiana Jones and the Last Crusade" and "Thelma and Louise". Moab is being promoted as a retirement town with outdoor values of hiking, biking, fishing, and boating. The trails are limitless into the 4000' mountains of nearby Arches (3 miles) and Canyonland National Parks (12 miles) where we will be doing most of our shooting. We expect to have desert dry heat in the 80's and 90's during the day, down to the 70's by sundown.

Downtown Moab caters to vacationers as well, especially main street that has art galleries, latte stands, microbrew pubs and restaurants as adventurous as the Center Cafe' which serves roast ostrich. Local artist's display Native American influenced work, at the Dan O'Laurie

Museum and the Moab Community Co-op. It has the Allen Memorial Hospital with 38 beds and 5 doctors and boosts 259 sunny days a year. The sales tax is 8% and the cost of living is 1.4% lower than the national average.

Consumer reports rated the national parks last year and rated both the Arches and Canyonlands as the second best in the country, with 90% or better in scoring behind Glacier Bay in Alaska. A quote from naturalist Edward Abbey called Arches "windows in stone ranging in size from holes just big enough to see through to ones to contain the dome of the capital building in Washington D.C." The hiking trails are considered the best in the west and park personnel were good to excellent and their presentations very useful.

Fred and his committee picked a great venue with outstanding natural beauty and we should have a great time starting on May 5th.

If you are flying to Salt Lake City, it's a 4-hour auto ride, or from Grand Junction, CO it's 110 miles west.

Looking forward to seeing y'all in Moab. ■

INTERNATIONAL ASSOCIATION OF

PANORAMIC PHOTOGRAPHERS
MOAB '98

More Moab Information On Page 15.

IAPP Drawing Just \$50 Could Get You A Great Panoramic Camera

For only \$50 you can buy a drawing ticket for a chance to win a Roundshot 35-35s or a Noblex 150 while helping IAPP increase members services and produce color pages in our magazine, Panorama. Only 200 tickets will be available and each ticket will be \$50. You do not need to be present to participate. Remember only 200 tickets will be available so if you are interested you should get your ticket ASAP. Mail your check or credit card information to IAPP at our post office address. Your ticket stub will be mailed to you and winners notified after the drawing.

Prizes will include:



◀ NOBLEX 150

Super quality performance from a drum mounted swing lens. This medium format panoramic camera is very user friendly. Multiple exposure capability
Sponsored by: RTS Noblex and IAPP - a \$2,900 value

ROUNDSHOT 35-35S ▶

Unmatched quality in a 35mm 360° panoramic camera. Great for traveling and spontaneous shooting
Slow speed for long exposures

Sponsored by: Seitz Phototechnic AG, Custom Panoramic Lab and IAPP - a \$2,600 value



Additional prizes donated by:

Fuji
Liz Hymans
Custom Panoramic Lab
Pro Photo Connection
Wood Box Frame Co.
Globuscope

The drawing will be held during the International Convention in May '98.

Member Profile Meet Kate Jordahl

When you attend an IAPP meeting, Kate Jordahl is one of many IAPP members you will meet. With a vast knowledge and talent for panoramic photography, Kate is always willing to share what she can. Our members are as varied in their field of work as are their talents.

Kate has just celebrated her 20th year as a photographer and is currently a full-time instructor at Foothill College in Hayward, California. Kate has a Bachelors degree in Art and Art History as well as a Masters of Fine Arts in photography. Kate became interested in panoramic photography back in 1980 when her husband purchased a Widelux.

Upon curating an exhibition at the PhotoCentral Gallery in 1989 entitled *The Extended Image: American Panoramic Photography*, Kate joined IAPP where she exchanged ideas and images that led to her being a panoramic photographer. When shooting panoramas, Kate shoots with a Roundshot 35/35 and likes to focus on landscapes in black and white as well as

hand-colored images and has also experimented with environmental portraits.

Kate's work has been exhibited both nationally and internationally, is in numerous collections including the Yosemite Museum and the Bibliotheque National de France. Her work is represented by Photographer's Gallery in Palo Alto, California. Her extensive travel and image making in Europe, Asia and the U.S have deepened her sensitivity to different cultures. Kate loves to share her interest in panorama and with her husband Geir, have taught a number of panoramic workshops where they discuss the special challenges and rewards of these magical cameras. To quote Kate, "Seeing in panorama is something I come back to again and again. There is so much to see and the world is so full of image possibilities. Panorama lets me show more of what I see and give the image a unique perspective". Kate has attended and participated in IAPP conventions

and weekend Conferences. IAPP is fortunate to have Kate as one of their members.

Two of Kate's panoramas are shown at the top of the next page. ■



Jordahl's Panoramas



Coconuts, Fiji
© Kate Jordahl



*The Book Shop,
Hayward, CA*
© Kate Jordahl

NEW! Hulcherama Model 120-S

NEW FRONT SHOT

The new Hulcherama Model 120-S is a new addition to the Hulcherama line of 120mm cameras. It features a new front shot lens, a new shutter, and a new adjustment system. The camera is designed for professional use and is available in both black and silver finishes.

THROUGH THE LENS VIEWING

The Model 120-S features a new viewing system that allows the user to view the scene through the lens. This system is designed for professional use and is available in both black and silver finishes.

NEW SHUTTER & ADJUSTMENT SYSTEM

The Model 120-S features a new shutter and adjustment system that allows the user to adjust the camera's settings. This system is designed for professional use and is available in both black and silver finishes.

120mm lens 120mm shutter 120mm adjustment system

For more information, please contact Charles A. Hulcher Co., Inc. at 1200 S. Main Street, Hayward, CA 94501.

120mm lens 120mm shutter 120mm adjustment system

CHARLES A. HULCHER CO., INC.

1200 S. Main Street, Hayward, CA 94501
757-245-1100 FAX 757-245-1102

The IAPP Boutique

T-Shirts & Caps



← Caps -
adjustable, white w/red logo -
\$8.00

All T-shirts are best quality available, 100% cotton, pre-shrunk, heavy weight, taped neck, hi-crew collar, full fit.

Moab 1998 T-Shirt→

red sandstone in color imprinted with our 1998 convention logo. All of the Moab shirts must be preordered and are \$14.95, plus mailing if not picked up at the convention.



← Standard Logo
red logo - \$15.00

****New Items****

IAPP Cap - modern low profile design, brushed suede visor, cream with blue leather adjustable strap - \$9.95
IAPP long sleeve shirt - heavy duty denim that's soft as can be, looks great, washes up great, large & XL - \$29.95



← Coasters
set of 3 -
\$10.00

Audio tapes - Set of six, 90 minute audio cassettes, of presentations at the 1996 IAPP Convention - \$18.00

PHOTOBOOKS

IAPP members take 10% off listed price for books.

Photographers Resource	0-8230-7654-7	\$19.95
Aerial Photography	0-8174-3293-0	\$22.50
Guide to Russian & Soviet Cameras	1-874031-63-0	\$45.00
The Backpackers Photography Handbook	0-8174-3609-X	\$19.95
Capturing the Landscape with your Camera	0-8174-3658-8	\$22.50
Capturing the Night with your Camera	0-8174-3661-8	\$24.95
Field Guide to Photographing Landscapes	0-8174-3871-8	\$16.95
Industrial Photography	0-8174-4017-8	\$22.50
John Shaws Landscape Photography	0-8174-3710-X	\$24.95
The Photographers Guide to Exposure	0-8174-5424-1	\$18.95
The Photographers Guide to Using Filters	0-8174-5449-7	\$22.50
The Photographers Guide to Using Light	0-8174-5422-5	\$18.95
Photographing Buildings Inside and Out	0-8230-4016-X	\$27.50
Pro Lighting: Indoor Shots	0-8230-6465-4	\$29.95
Shooting for Stock	0-8174-5871-9	\$22.50
A Users Guide to the View Camera	0-8230-4988-4	\$36.50
Using the View Camera	0-8174-6353-4	\$22.50
The View Camera - New Ed	0-8174-6375-5	\$22.50
Panorama California	IAPP-00000-1	\$20.00

To order: Send check, money order, VISA, MC (include \$4 shipping) to:

→ IAPP Boutique • PO Box 2816 • Boca Raton, FL 33427-2816 ←

Custom Panoramic Lab

Your Complete Panoramic Headquarters!

ROUNDSHOT

Simply the best built 360° panoramic cameras.
From 35mm to 5 inch.



PANORAMIC PRINTING

Negatives up to 10 inches wide by 63 inches long can be printed for prints up to 40 inches wide by 164 feet long!

Prints are all custom - No machine prints.

All negatives are custom analyzed.

Prints available on matte or glossy.

Duraflex, Duratrans and Duraclears available.

Try Our New R-3 Processor Prints from Transparencies

FILM PROCESSING

35mm to cirkut negatives processed.

20" C-41 Film Processor

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Improve Your Panoramas by Improving Your Timing

By M. Denis Hill

"In the field of observation, chance favors only the prepared minds."

Louis Pasteur's comment above is as applicable to art as science. The art of panoramic photography benefits mightily from the preparation that puts us in the right place at the right time.

We inevitably prepare by being aware of the seasons and time-of-day and how

they impact our work at a given location at a given hour, on a given day. You just can't photograph snow in July at most locations! I know that I've never had luck shooting sunsets at noon.

So a little preparation can enhance the chances of getting the dramatic shots we crave. In particular, I am talking about astro-nomical preparation.

Consulting readily available data sources, we can incorporate knowledge of sunrise, sunset, moonrise, moonset, and related information into our travel plans. Here are some astro-logical data points worth considering when you sketch out your next photo trip:

1. Sunrise/sunset - If you want to shoot a sunrise or capitalize on predawn twilight, shoot in the winter, when night is longer and it's easier to get up and to the target area ahead of the sun. Knowing

the time of sunset allows you to plan your work, conclude other business, and be on the spot ready to shoot when you need to be there.

2. Phase of the moon - Often the difference between a good shot and a great one is a full or new moon, rather than some intermediate phase.

3. Moonrise/moonset - When and where these happen can make or break a shot. Coordinate moonrise and set relative to twilight (predawn or post sunset).

4. Latitude - You can't change the latitude of most landscape subjects, but knowing in advance the angle at which the sun and moon will travel can put you in a position to precisely plan your shooting. When your planned composition

includes two fixed landmarks and the sun or moon, there may only be a few days a year when a shot is possible.

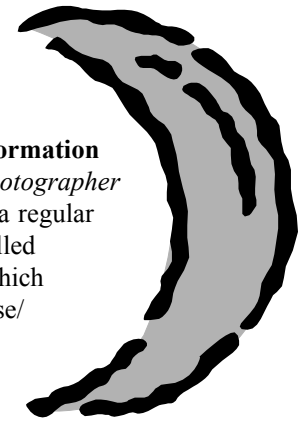
Thanks to computers and the Internet, it's now easy to calculate the precise information we need to plot out panoramic shoots. We can enter data like city and state, latitude and longitude, date, and generate tables with all the information we need. Following is a summary of software, services, books, and magazines that provide relevant sun and moon information.

Published Information

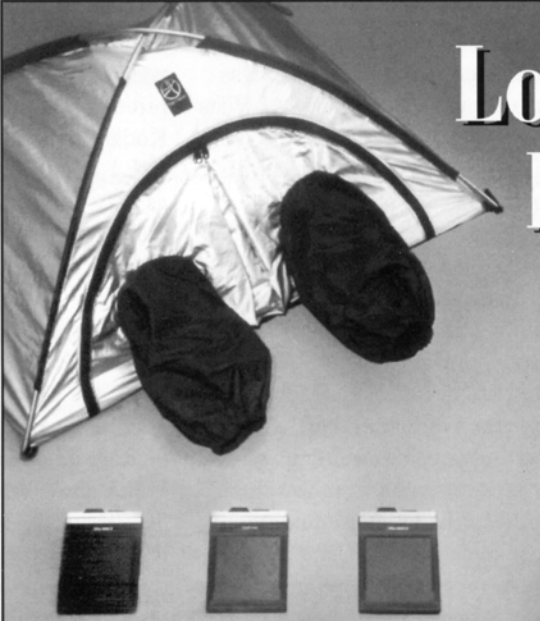
Outdoor Photographer magazine has a regular department called "Almanac," which includes sunrise/sunset for latitudes 25 degrees north through 70 degrees north in 5 degree increments for the month of each issue's cover date. Full moonrise and moonset data are also included. These are published for five dates during the month. The magazine includes moon phases with dates for first quarter, full, last quarter, and new moon.

Two books germane to this topic are joint publications of the Astronomical

Applications Department, U.S. Naval Observatory, and Her Majesty's Nautical Almanac Office, Royal Greenwich Observatory. The *Astronomical Almanac* and the *Nautical Almanac* are published annually, with each edition containing the data for one year. They are available from The Stationery Office in the U.K. at <http://www.the-stationery-office.co.uk/> and Government Printing Office bookstores in 21 major U.S. cities as well as Pueblo, CO, and Laurel, MD. The



"The art of panoramic photography benefits mightily from the preparation that puts us in the right place at the right time."




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Timing from page 11

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The *Astronomical Almanac* contains precise ephemerides of the sun, moon, planets, and satellites, data for eclipses, and other astronomical phenomena for a given year. Most data are tabulated at one-day intervals.

The *Nautical Almanac* contains the astronomical data required for marine navigation. Most data on the main pages are tabulated at hourly intervals to a precision of 0.1 arcminute. Main pages contain the Greenwich hour angle and declination of the sun, moon, and navigational planets; the Greenwich hour angle of Aries; positions of the navigational stars; rise and set times of the sun and moon for a range of latitudes; and other data.

Online Information

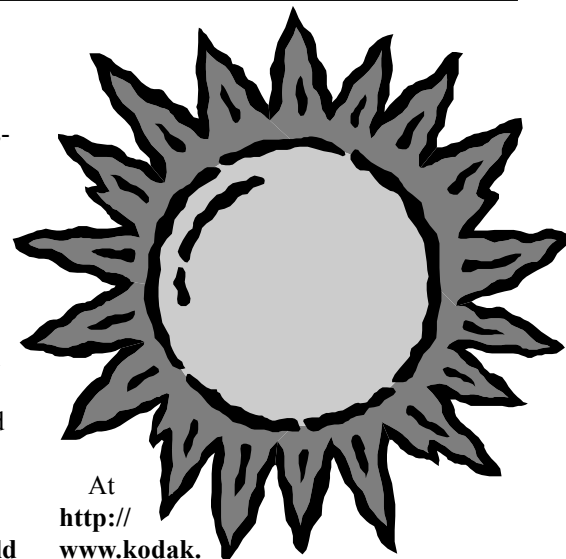
The easiest way to tap into sun and moon data is through a variety of sites on the World Wide Web. Many of these actually refer back to the same source of information: the Naval Observatory. Here's a quick rundown on some good sites, as well as some novel ones.

New England photographer Leslie O'Shaughnessy provides the ability to compute sunrise, sunset and twilight for cities with airports worldwide at <http://empsolv.com/los/sunset.html>. This will get you closer to your destination than many of the other online calculators. I tested for Moab and it found Canyonlands Field and gave me data for that site.

Her Majesty's Nautical Almanac Office touts its astronomical data at <http://www.ast.cam.ac.uk/%7enao/index.html> for

"a wide range of users, including professional and amateur astronomers, mariners, aviators, surveyors, the armed forces, lawyers, religious groups, architects, schools, diary and calendar publishers, photographers and film crews." What I found there is a set of pre-calculated tables you can download.

WORLDTIME(r) comes to us from Germany, featuring an interactive world atlas, information on local time as well as sunrise and sunset times in several hundred cities, and a database of public holidays worldwide at <http://www.worldtime.com/>. The developer provides a pleasing graphical interface - graphic of the globe showing current areas in darkness and light - that distinguishes this site. We Yanks have a choice of 38 U.S. cities.



At <http://www.kodak.com/aboutKodak/bu/ppi/kodakProfessional/toolsTips/sunriseSunsetCalculator.shtml> the claim is "Now you can calculate the sunrise, sunset, twilight, moonrise, moon set and phase times for any date in almost every

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city before any shoot." I think the "almost every city" part is hyperbole. I didn't see Salt Lake City or Los Angeles on the list!

At the Naval Observatory site at <http://aa.usno.navy.mil/AA/> some of the online data available are Sunrise, Sunset, Moonrise, Moonset, and Twilight Data for One Day, a Table of Sunrise/Sunset, Moonrise/Moonset, or Twilight Times for an Entire Year, Moon Illumination, Phases of the Moon 1990-2005, and Table of Moon Illumination for an Entire Year. It works from a file with over 22,000 places in the U.S.

The Moab to Monument Valley Film Commission provides approximate time of sunrise and sunsets for the Colorado Plateau at <http://www.uvol.com/moabfilm/sunrise.html>, though I couldn't find a photo credit for the panoramic shot at the top of this page. There's also a sunrise/sunset table for the Moab area at <http://www.moab-utah.com/rack/sunrise/sunrise.html>.

We can thank Mayor's Office of

Film, Theatre (sic.) & Broadcasting for the New York City Sunrise & Sunset Times provided at <http://www.ci.nyc.ny.us/html/filmcom/html/suntemp.html>.

Out here on the left coast, Griffith Observatory at <http://www.griffithobs.org/Skyinfo.html> offers info such as sky report, eclipses, moon phases, moonrise/set, sunrise/set, sun's path, tide tables, astronomical zodiac, and planetary alignments in the year 2000.

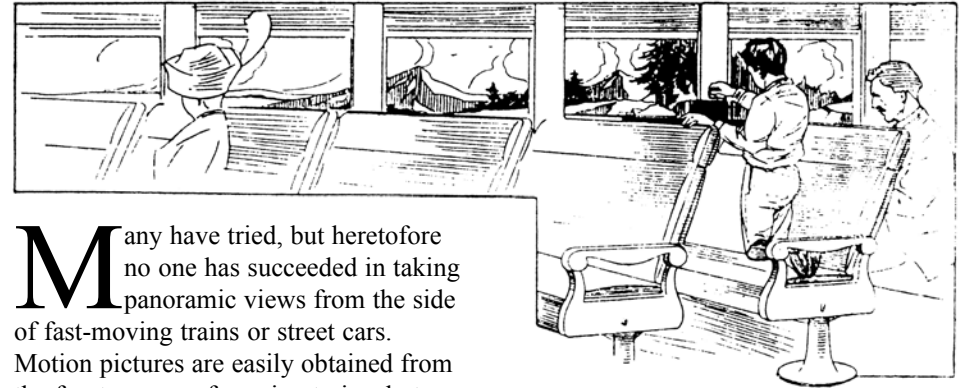
For those further west, the Australian Surveying & Land Information Group, Department of Industry, Science and Tourism provides sunrise, sunset and twilight times computation at <http://www.auslig.gov.au/geodesy/astro/sunrise.htm>. For lunar info, go to <http://www.auslig.gov.au/geodesy/astro/moonrise.htm>.

In the next issue of *Panorama* we will explore the different software available for making sure you are in the right place at the right time to create that perfect panorama. ■

The Mile-O-View Camera

By T. B. Lambert

Editors note: This article is reprinted from The Boy Mechanic - Volume II 1915.



The board used instead of a tripod is placed across the back of two car seats.

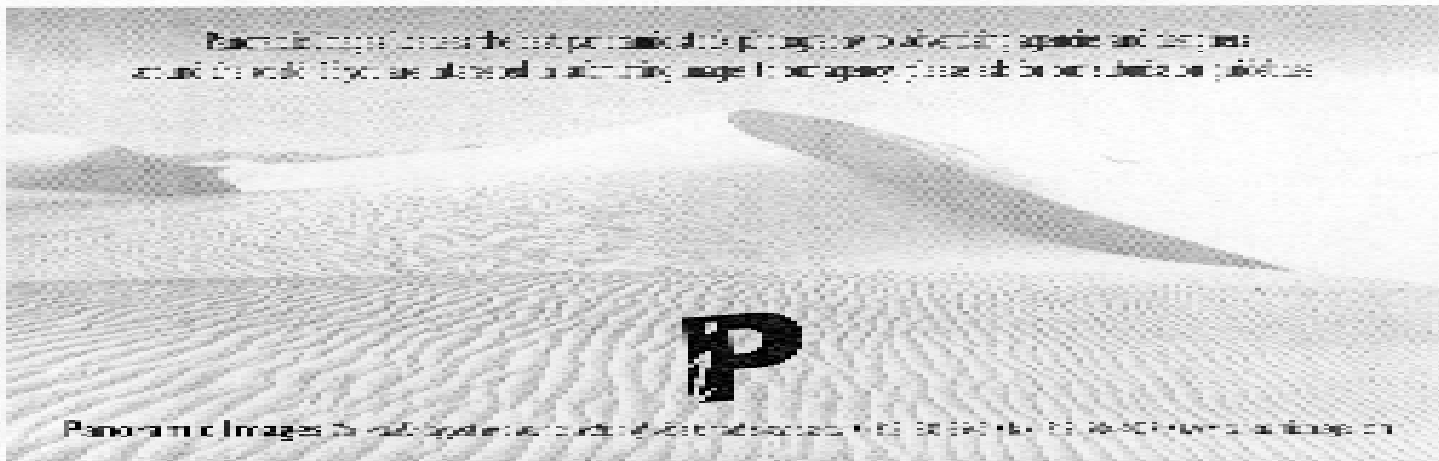
Many have tried, but heretofore no one has succeeded in taking panoramic views from the side of fast-moving trains or street cars. Motion pictures are easily obtained from the front or rear of moving trains, but none with the camera lens pointing at right angles, or nearly so, to the track. A complete apparatus for taking continuous and perfect panoramic pictures of any desired length as one travels through a country, is too complicated to be described in detail within the limits of this article, but a simple arrangement, invented and constructed by the writer, will enable anyone to perform the experiment at practically no cost except for the film.

Some form of a roll-film camera is

essential, and simply as a working basis, it will be assumed an ordinary camera is used, post-card camera in size, for which the following things will be required: A piece of thin black card or hard rubber; a small board, and a piece of wire to be used as a crank.

Prepare the paper, or hard rubber, by cutting it to a size that will exactly cover the rear camera opening when the back of the camera is removed, which in the case of a post-card size, is 6 in. long and 3 3/4 in. wide; then cut a narrow slot, about 3/64 in. wide crosswise through the center of the material. This slot should extend to within about 1/2 in. of each edge, and the edges must be perfectly smooth and straight. If paper is used, glue it to the opening in the camera. If hard rubber is used, it can be made up as shown and set in the camera opening.

This will bring the slot directly back of the lens center and at right angles to the direction in which the film moves when



Challenging Panoramics

By Peter Lorber

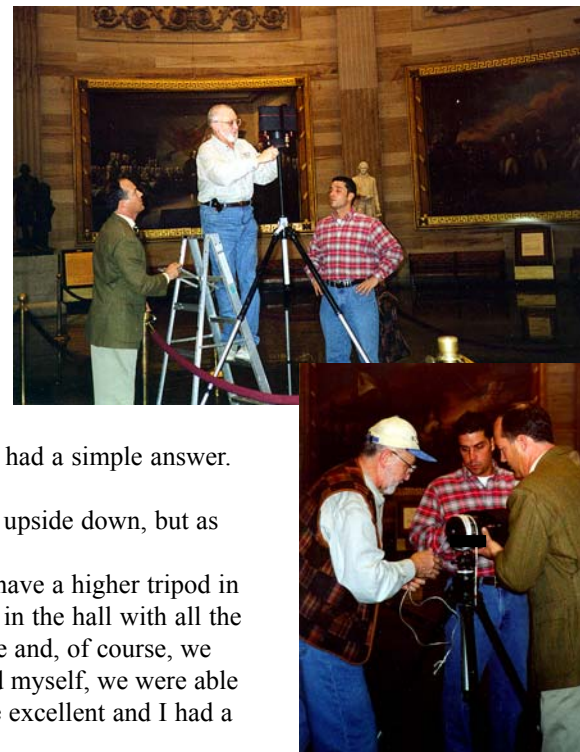
One of the most interesting, yet most challenging, photos I have taken was the Capitol Rotunda in Washington D.C. It was also one of the most thrilling.

The first challenge was handled by Jim Ivey and Mike Bates (*seen in photos*) of Central Photo in Washington. Without their help this shoot would not have been possible. We had one hour to take three different shots with a 5" Roundshot, one of them a vertical of the Dome.

When I realized we would be getting in, I knew the only camera to use was my 5", but how to turn it upside down was a little tricky because of the heavy weight of the camera and the light weight of the tripod. I turned to the encyclopedia of panoramics, Will Landon, and he had a simple answer. Tie a rope around the camera to secure it (*photo at right*).

I have to admit, it made me a little uneasy to have this camera sitting upside down, but as usual, Will was right.

The first shot was of the rotunda itself. My only regret was I did not have a higher tripod in order to take the entire room from floor to ceiling. The second shot was in the hall with all the statues, a perfect room for a 360° panoramic. The last shot was the dome and, of course, we were running out of time by that point. However, between Jim, Mike and myself, we were able to set up much quicker than if I were there on my own. The results were excellent and I had a great time taking the images. ■



More IAPP Moab 1998

Canyonlands By Night

Join us for the most talked about tour of the International Convention, Canyonlands By Night, a nationally renowned Sound and Light show. As the sun sets we will take a river trip on the Colorado River on the Moab Queen.

We'll begin a smooth ascent up stream as an informative narration helps put the scenes of the river canyon in perspective. Light bathes the magnificent cliffs, which have remained virtually unchanged for millions of years. The contrast of light and shadows forms undulating silhouettes adding to the impact. Melodious voices and music combine to present a drama not soon forgotten. ■■

Utah Parks are Tops

Of the 35 national parks in the United States, Arches National Park was rated number 2 and Canyonlands National Park was rated #4 for spectacular scenery. Both parks top the list for cleanliness, visitor facilities, and parking and low tourist density. Combined with the beauty of the Colorado River and surrounding countryside of southern Utah make this area a must for scenic photography. Temperatures in May average 85 degrees high and 50 low.



During the International Convention in Moab official sign up sheets will be posted for planned field trips with other IAPP members who are very familiar with where and when to make the most spectacular images in the parks. You may also

sign up with camera or equipment exhibitors who will lead several field trips into the parks to shoot panoramic pictures and also demonstrate how their equipment works in the field. There is a local color lab should you wish to get your film processed there for quick results. Be sure and bring an IAPP hat, sunscreen and plenty of film. ■■



Vertical panorama (previous page): This panorama of the dome of the Capital building, was photographed by using rope to attach the 5" Roundshot vertically to the tripod. (Of course Peter's hat was cropped from the final image.)

Right: The hallway with all the statues was perfect for a 360 degree panorama.

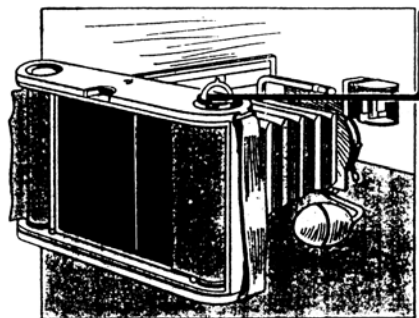
Mile-O-View from page 13

being rolled.

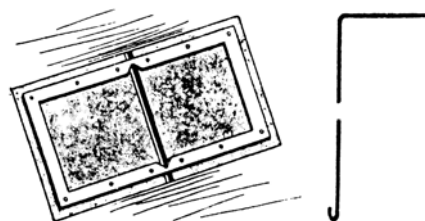
A board is prepared, about 4 ft. long, 10 in. wide and 3/4 in. thick. This is to take the place of a tripod, and it must have a small hole and suitable wing nut to attach the camera near the center. This length of board will reach from the back of one seat to another when it is placed to support the camera during the exposure.

A wire, about 1/8-in. in diameter, is bent, as shown, with a short hook on one end, and the other turned up at right angles, to serve as a handle. This wire, when hooked into the wing nut, will enable one to wind up the film at a fairly uniform speed. This completes all the necessary apparatus.

To take pictures with this panoramic outfit, load the camera in the usual way, but do not wind it up to exposure No. 1; stop at a point where the beginning of the film will be nearly opposite the narrow slot in the black paper, or rubber. This would be to stop the turning at about the time the hand pointer appears in the small back window. Attach the camera firmly to the board and brace up the lens end so that it will not easily shake with the movement of the car. Place the board across the backs of two adjacent seats, so



The two parts as they are applied to an ordinary roll-film camera.



These two articles constitute the only parts necessary to change a camera into a Mile-O-View.

that the camera will point out of the window at exactly right angles to the car.

When ready to expose, open the shutter wide, turn the crank that is hooked into the wing nut, and slowly wind up the film while the train is running. This will give a panoramic picture, continuous in character, and if the speed of turning is well judged, some very splendid views can be made.

The focal length of the lens and the speed of the train will govern the speed of turning the crank. For an average lens, the crank should be given one turn per second when the car is traveling about 15 miles an hour, or the average speed of a streetcar. A train traveling 30 miles an hour will require two turns of the crank per second. A good method of trying this out is to use one film as a test and turn the crank a few times and note its speed by the second, then stop and begin again at another speed for a few turns and so on, until the entire film is exposed, always noting the turns and time for each change, also the speed of the train. When the film is developed the one that shows best will give the proper number of turns per second.

The following points must be considered: The track should not be rough, and the camera must be perfectly steady and

More Mile-O-View, page 21

Product Update

The Alt View WA 410

The Newest Panoramic Wooden View Camera

Patrick Alt, known throughout the country for his restoration of classic wooden view cameras, is now building the Alt View WA 410. Made of Australian Lacewood and Wenge with a black bellows, the Alt View is a 4x10-inch camera which takes lenses from 115mm to 360mm and which weighs exactly 4lbs. without a lens.

Alt came up with the design for this new camera when someone asked him to make a 4x10-inch box camera. What he wound up with is a non-folding flatbed camera—not a box camera but still quite simple—with a limited set of movements. This camera was designed for beauty and the level of craftsmanship is superb. The non-folding design is more rigid and less expensive than some of the other 4x10s.

The lacewood, which comprises most of the camera, is described by Alt as “a non-rainforest wood of unsurpassed beauty and workability.” The wood has an almost 3-D look which is quite unique.

The dark wenge accents make for a nice contrast between the two. The result is one of elegance and simplicity. Alt has future plans for an 8x10-inch model and an 11x14-inch pinhole camera.

The Alt camera is truly a basic machine. The front standard can be moved on the central focusing track to any of three click-stop positions; fine focusing is achieved with a rack and pinion drive and traditional opposing brass knobs, the right one for focusing and the left one for locking. The front standard moves from click-stop to click-stop on two lozenge-shaped nylon bushings. Lenses of 300mm or longer

Specs - Alt View WA 410

Front base tilt	limited only by bellows
Front rise	211
Minimum focus, normal bellows	106mm
Maximum focus, normal bellows	338mm w/ standard board; 376mm w/ extended board
Weight	4lbs.
Dimensions, w/ lens retracted	12-1/4" x 9-1/2" x 8-3/4"
Tripod threads	(2) 1/4"-20, one on the bottom, one on the side
Ground glass	standard ground glass w/1/2" grid
Lensboard	proprietary, 4" x 4"
Notes	Traditional spring back, leather handle, black fabric bellows
Price	Camera \$1795, plus lensboard \$50, extended box lensboards \$90.



focal length should be mounted on the optional extension box lens board that extends the lens position by 38mm.

The camera has two inches of front rise and the front can be tilted (on an axis located at the bottom of the lens board) forward or backward, limited only by the bellows. That's it. Remember, the camera is designed to be simple. Patrick Alt's 4x10 accepts the beautiful wood film holders from Lotus, as well as Canham's modified Fidelity holders. Be aware that these holders are different from the holders for Wisner's 4x10 wood camera; make sure not to use the Wisner holders on this camera.

For more information on the AltView AW410, call Patrick Alt at 213-748-3087.

The PRO TREKKER AW Photopack

By Terry Thompson

Prior to leaving for a month long trip to New Mexico and Utah, I took stock of the Photopack that I had customized after buying a V-Pan 617 view camera. The pack worked fine for my Linhof but did not have enough depth to ensure protection of the V-Pan camera and wasn't large enough to hold all of my new lenses. I had recently seen a demo of

Lowepro's new Pro Trekker AW Photopack. This intermediate pack fills the gap between their smaller Photo Trekker and the much larger Super Trekker. I purchased one and started loading it up just days before my trip.

The ProTrekker AW has a fully adjustable harness system, carefully designed for comfort and good weight distribution. This is critical when carrying heavy loads for long periods of time. The pack weighs 9 1/2 lbs. out of the box and mine currently is about 36 lbs. fully loaded. With this much weight it is important that you be able to adjust a pack to fit to your body so that you can distribute the weight properly. The pack is well equipped in this area with an adjustable lumbar support, adjustable shoulder strap anchor height and many more features that allow for individualized fit to the body shape of the person wearing it.

I started by removing all the Velcro separators and placed my camera and lenses in the pack to come up with a plan for partitioning. The rule of thumb for any backpack is to put the heavy stuff on the bottom. With the V-Pan that meant the front and back standards with attached bellows mounted on the 5" rail

(this section is 5-6 lb.) on the bottom of the pack in one large but snug space for the camera and nothing else. The film magazine (3 lb.) seemed to work best in a vertical slot next to the camera. These two items took up the available width of the pack. Next came the four lenses that I currently carry, each getting a space large enough for

the lens board to fit snugly. Two of my shorter lenses stack in one partition with a padded cushion in between. A light meter and other assorted small stuff fit into another small partition. The layout quickly came into place using the Velcro partition pieces provided. In one spot I took a partition from another retired Lowepro bag to fill out my needs since the Velcro dividers are usually interchangeable between most bags.

That took care of the heavy stuff, for additional storage a 16" padded lens pouch comes attached to one side of the pack. I use this for additional telephoto rear elements and a

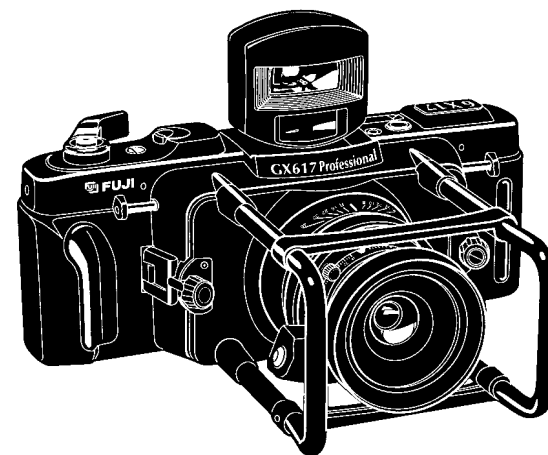
small repair kit. It will also be where my next new lens goes. An accessory pouch on the other side holds my 120 roll film. Both of these pouches can be taken off and used on either side or the back of the pack. The outside face of the pack comes with a tripod carrying system, which I

More Products, page 19



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Products from page 17

removed because I am using a Reis wooden tripod. Instead, I plan to get the Trekker Daypack, which attaches to the face of the pack and can hold personal items like lunch, a water bottle, wind-breaker, etc. The daypack comes off for use when you want to leave the camera behind.

A compartment under the pack contains a travel cover and a rain cover. A removable, reversible divider inside the pack has one large and two small zippered mesh pockets on one side. I use the large one for big filter pouches, a gray card, extra cable release and other stuff I don't want floating around. The two small compartments are the perfect size for my various 4" (100 mm) filters. Lowepro also makes a reflector that attaches easily to the other side of this divider. It becomes a hand held reflector when I need some bounce light. This partition is held in



place with Velcro so that it can be hinged with the three pockets facing into the pack or out. The inside of the pack's zip-up face, has a mesh pocket that holds larger objects such as a light jacket, maps, a focusing cloth, etc. One of my suggestions to Lowepro will be to make this pocket completely closeable so that items can't slip out.

The pack also has a top carrying handle and one on the side to allow for carrying suitcase style. I could tell that the pack designers had obviously incorporated a great deal of input from photographers. I never felt that I had to make a bunch of modifications to suit my needs, it came designed ready to use. The Pro

Trekker AW has proven its worth on that first trip and many other shoots since. I highly recommend the Pro Trekker AW to any photographer who carries a camera system of this size, it's comfort and ease of use is hard to beat. ■

Historic Panoramas

By Richard Schneider

One of the more unusual images in the Still Picture holdings of the National Archives, this circular "fish-eye" panorama captures the harbor front of Baltimore from an aerial vantage point, as it appeared in 1916.

The panorama is found in the records of the Army Air Forces (RG18) which covers the period from approximately 1917-1947 when the AAF was abolished and reorganized as the United States Air Force. At the time of the photograph the activities of this agency were part of the Aeronautical Division of the War Department (1915 - 1917).

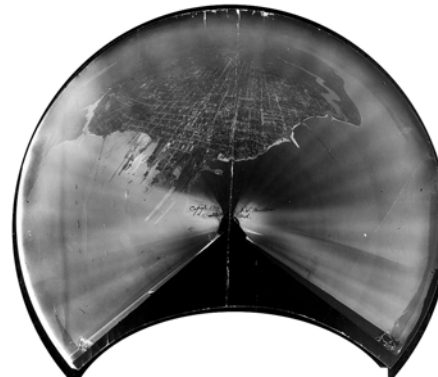
In general, the AAF provided advice and assistance to the Secretary of War and other elements of the War Department on all aspects of land-based air offense and defense. The records of the AAF include those of the Bureau of Aircraft Production, Airplane Engineering Division, Air Service and Air Corps Units, the Balloon Section of the Air Division and many other

organizational units.

Though no other information was discovered which documents what the circular panorama was shot for, it seems likely that it was connected to the Balloon Section and their research activities into aerial photography.

Upon seeing the Baltimore panorama in our holdings, I couldn't help but be reminded of some images I had seen by Professor Andrew Davidhazy of the Rochester Institute of Technology (and member of IAPP). Though Andrew's vantagepoint is from the ground looking up, and not vice versa, the photographs as reproduced here bear a striking similarity.

I contacted Professor Davidhazy by e-mail and shared in his surprise that such technology had been invented and utilized so long ago, for a distinctly un-artistic purpose. I can only speculate how the Baltimore pan was actually created, but if you are interested in specifics as to how Andrew's camera system works, please visit his web site at: <http://www.rit.edu/~andpph>. ■



"Baltimore, Md." - Copy't 1916. F.W. Mueller. Original is silver gelatin print and measures 11.5" in diameter. National Archives and Records Administration Records of the Army Air Forces (RG18-AWS-2A-4).



Photograph by Professor Andrew Davidhazy, Rochester Institute of Technology.

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Noblex Pro 150 120 format	\$ 50	\$ 200
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More VR News

IBM Announces Health Village Tours

Contributed by Jeffry Ullman

HealthVillage Tours is a healthcare specific use of IBM's PanoramIX web based panoramic interactive technology.

The following HealthVillage Tours were recently announced and can be viewed: Friendsview Manor, Newberg, OR. Website: <http://www.open.org/manor/>.

Caldwell County Hospice, Lenoir, NC. Website: <http://www.hospice-nc-sc.org/>

All the panoramic photography on these two virtual tours were taken by IAPP president Fred Yake!

Commenting on the virtual tour, Tamela Morris, controller, Friendsview Manor said: "PanoramIX gives us a broader marketing area, allowing those looking at Friendsview Manor from a

distance to see our facility and people. It is exciting to know that families of current and prospective residents can see us on the Web and send messages to their loved ones from the site."

Alex Gogh, Healthcare Segment Executive, IBM North America Small & Medium Business commented:

"HealthVillage Tours demonstrate the virtually unlimited healthcare potential of the Internet. It represents a significant step towards helping healthcare professionals realize the full benefit of electronic business".

For any additional information please feel free to contact Jeffry Ullman: jbullman@us.ibm.com. Additional info on PanoramIX can be found at: <http://www.software.ibm.com/netmedia>. ■

Mile-O-View from page 16

not twisted out of position by turning the crank, otherwise the resulting picture will be warped. If the slot in the back board is not smooth and true, the picture will be streaked. Turning the film too fast will make the picture elongated, and too slowly, condensed. Should the camera be pointed otherwise than at right angles the picture will be distorted. This arrangement cannot be used to take moving objects except under special conditions. A picture of a passing train of cars can be made if the camera is stationary, but the wheels and drive rods will appear twisted out of shape. It is best for the experimenter to confine himself to scenery at the beginning, avoiding architectural objects, because a variation in speed of turning the crank to wind the film naturally distorts the architecture, which variation is not so noticeable in a scenic view. ■



The "scenic" accompanying the original Mile-O-View article.

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Services: Gears cut - 48 pitch and 32 pitch, 14 1/2 degree pressure angle gears with any number of teeth. Less than 50 teeth - \$25, 50 to 125 teeth - \$35, over 125 teeth - by quote. Gears are fitted with shafts or hubs made to customers measurements. Ron Kline, Northernlight, 1208 Pike Court, Juneau AK 99801-9549. Phone 907-780-6248. panorama@ptialaska.net

For Sale: Selling lenses, cameras and equipment that are surplus to my needs. Send SASE for listing and descriptions to: Will Landon, PO Box 6073, Bellevue, WA 98000.

For Sale: Fuji Panorama G617 Pro, new 105 Fuji lens and shutter, completely rebuilt, like new, with case, \$2700. Joe Sohm, 805-649-2555.

Wanted: Looking for Fuji 617 cameras, older version without interchangeable lenses. Contact Jamie Parker at 800-982-1873.

For Sale: Foba tripod, heavy duty, ex. condition, \$750. Peter Lorber, 561-361-0031 or fax 561-361-0494.

For Sale: Noblex 150S, shifting model. Like new condition. \$2000. Peter Randall 603-431-5667. Peterpix@aol.com

For Sale: Dust off that old 120 folding camera that you have in the bottom of your camera drawer and have me turn it into a 360 degree field of view panorama camera. Prices starting at just \$600 when you supply the body and a 35mm format lens. Complete cameras for \$700. Bob Erickson, Phone 561-276-0886.

For Sale: Noblex 150F focusing model, \$2,550 - used; Noblex 175U - new; Linhof 617, \$3,500 - used; #8 Cirkut outfit camera, \$1,800; 8x10 Ellwood enlarger, \$700; 5x7 Kodak Autofocus enlarger w/out lamphead, \$350; D2 Omega enlarger, \$450; D5 Omega Enlarger chassis, \$300; Royal Print black/white Kodak processor, \$950. Contact: David Hittle, 14240-D Sullyfield Circle, Chantilly, VA 20151, Phone 703-222-5721.

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Press Release

The Photo Review 1998 Photography Competition

The Photo Review, a highly acclaimed critical journal of photography, is sponsoring its 14th annual photography competition with a difference.

Instead of only installing an exhibit which would be seen by a limited number of people, *The Photo Review* will reproduce accepted entries in its Summer 1998 issue. Thus, the accepted photographs will be seen by thousands of people all across the country and entrants will have a tangible benefit from the competition.

Also, several photographers will be chosen by Gary Pelkey for an exhibition at the Owen Patrick Gallery in Philadelphia's lively Manayunk district.

Because their work was seen in *The Photo Review*, past winners have been given one-person exhibitions, had their work reproduced in other photography magazines, and have sold their work to collectors throughout the country.

The juror for this competition will be renowned photographer Larry Fink. \$1,000.00 in cash prizes will be awarded, with first prize donated by Abbey Camera, Philadelphia. In addition, there will be a \$500 Purchase Prize for the collection of the Museum of Modern Art, New York.

An entry fee of \$20 for up to three prints or slides, and \$5 each for up to two additional prints or slides, entitles all

New items on sale in the IAPP Boutique!

See the new
IAPP Long Sleeve Shirt and
Modern Low Profile Cap.

Don't forget to pre-order
your IAPP Moab '98 T-shirt

See page 10



*Expand Your Sphere of
Influence... Reach IAPP
members in the US, Europe,
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To place an ad in *Panorama* magazine or on our WWW site, call 561-393-7101 or write: IAPP, PO Box 2816, Boca Raton, FL 33427.

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entrants to a copy of the catalogue. In addition, all entrants will be able to subscribe to *The Photo Review* for \$24, a 25% discount.

All entries must be received by mail between May 15 and May 31, 1998. For

a prospectus and details, send a self-addressed, stamped business-size (#10) envelope to: The Photo Review, 301 Hill Avenue, Langhorne, PA 19047. For further information call 215-757-8921 from 9 a.m. to 5 p.m. E.S.T. only. ■

Deadline for the next
issue of *Panorama*
magazine is:
June 1, 1998

*All submissions, articles,
ads, etc. must be sent to:*
IAPP

PO Box 2816
Boca Raton, FL 33427-2816
561-393-7101
561-361-0494 (fax)

**Check out the
"official" IAPP
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com



Proposed Revisions of the Bylaws

This is the revised bylaws of IAPP that will be voted on at the IAPP International Convention 1998 at Moab, Utah.

Article I NAME

The name of this organization shall be the International Association of Panoramic Photographers.

Article II OBJECT

The object of this Association shall be to create a membership network to educate, promote, and exchange art and technical ideas and to expand public awareness regarding Panoramic Photography.

Article III MEMBERS

Section 1. Any person shall be eligible for membership in the Association and shall become a member upon submitting the Association's form, with payment for annual dues to the Secretary/Treasurer.

Section 2. The annual dues shall be determined by the Board of Directors and shall be due and payable on or before January 1 of each year.

Section 3. A member shall forfeit membership if dues are not paid by March 1 of each year.

Section 4. Upon payment of dues, a member is in good standing and entitled to vote.

Section 5. By a majority vote of the Board of Directors a Life Membership may be conferred upon a member who shall have rendered notable service to the Association. The Life Member shall

pay no dues but shall retain full voting privileges.

Article IV OFFICERS

Section 1. The officers of the Association shall be a President, President-elect, Secretary/Treasurer and four Directors, one of which will be the immediate Past-President. These officers shall perform the duties prescribed by these bylaws and by the parliamentary authority adopted by the Association.

Section 2. The Board of Directors shall elect a Nominating Committee of three members. It shall be the duty of this committee to nominate a candidate for each office to be filled at the regular meeting. Before the election at the annual meeting, additional nominations from the floor shall be permitted.

Section 3. The officers shall be elected at the regular meeting and their term of office shall begin at the close of the regular meeting at which they are elected and until their successors are elected.

Section 4. No member shall hold more than one office at a time, and no member shall be eligible to serve more than two consecutive terms in the same office.

Section 5. Should an office become vacant between regular meetings the Board of Directors shall elect a replacement to fill the unexpired term.

Article V MEETINGS

Section 1. The regular meeting shall

be held every 18 months during the International Convention.

Section 2. The regular meeting, open to members only, shall be for the purpose of electing officers, receiving reports of officers and committees, and for any other business that may arise.

Section 3. A special meeting may be called by the President or Board of Directors or on the written request of twenty-five members of the Association, with 30 days advance notice. The purpose of the special meeting must be to consider only those items, clearly listed in the call, which urgently require action before the next regular meeting.

Section 4. Twenty-five members of the Association shall constitute a quorum.

Section 5. The Board of Directors shall choose the location and date for the next International Convention. The Convention shall alternate East and West.

Article VI BOARD OF DIRECTORS

Section 1. The Board of Directors shall be the Officers of the Association including the Directors.

Section 2. The Board of Directors shall have full power and authority over the affairs of the Association between meetings, make recommendations to the Association, and shall perform such other duties as are specified in these bylaws. The Board shall be subject to the orders of the Association and none of its acts shall conflict with action taken by the Association.

Article VII COMMITTEES

Section 1. The President shall have the authority to appoint all committees except the Nominating Committee and shall be an ex-officio member of all committees except the Nominating Committee.

Article VIII PARLIAMENTARY AUTHORITY

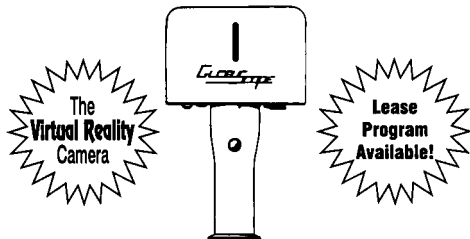
The rules contained in the current edition of Robert's Rules of Order shall govern the Association in all cases where they are not inconsistent with these bylaws and any special rules the Association may adopt.

Article IX AMENDMENT OF BYLAWS

Section 1. These bylaws may be amended at any regular meeting of the Association by a two-thirds vote of those present. Notice of proposed amendments must be given to all members at least 30 days in advance.

Section 2. Proposed amendments endorsed by the Board of Directors or by 20 members may be submitted to the Secretary who will place the notice of the proposed amendments in the IAPP Magazine.





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Experimental Panoramas

By Marty Freidman

Here are some panoramic images I have been experimenting with. The scenics (bottom and cover) were photographed with a Noblex 135U and rendered in Photoshop. The final images were printed on an Epson Stylus Photo printer.

The top two panoramas below were made in a very narrow alley, which prevented me from using the Noblex. I made 5 exposures with a Hasselblad SWC and stitched them together in Photoshop to achieve the final image. ■



Submission of Articles

I APP's membership increased by over 150 members in 1997. We would like to once again welcome all of our new members. We would also like to remind you that all articles for *Panorama* magazine are from members only. We invite all members to submit articles and images for publication. Articles about cameras, new technical advances, panoramic travel stores, unusual assignments as well as images, or anything panoramic related that you think other members may be interested in hearing are needed and welcome for publication. Watch *Panorama* for article deadline dates. Come on, send it in! ■

IAPP Moab '98

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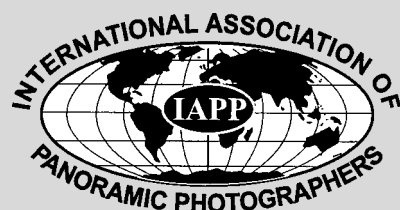


New Members

Welcome to our new members joining IAPP.

Steve Petsch - California
 Isadore Mankofsky - California
 Robert Rose - Washington
 George Sandy - California
 James Young - Wisconsin
 Neal Kapp - California
 Noell James - California
 Robert Woodburn - Texas
 Suresh Thiagarajan - California
 Kevin Mooney - Illinois
 Christopher Willborn - Missouri
 John Drummond - Florida
 Ronald Williams - Washington DC
 Bruce Fier - California
 Michael Mudd - Illinois
 Rob Hoeye - Oregon
 Gordon Rosenthal - Pennsylvania
 Patrick Alt - California
 Ed Westen - Wisconsin
 Jennifer Martin - New Mexico
 Don Jackson - California
 Wyn Hoag - California
 Jeff Gardner - California

Benigno Toda - Phillipines
 James Wilson - Canada
 Glenn Barry - Australia
 Roland Appel - Germany



Think Ahead! Shooting In The Polar Regions



By Everen T. Brown

Sometimes we forget valuable rules of common sense when shooting photos in extremely cold climates. Review each tip and apply it to your current style. Ask yourself how you will make it work for you!

1. All trash must be hauled out of these regions at great expense, so keep trash to a minimum. Take film out of boxes and plastic cans and pack tightly in waterproof containers like Tupperware. Transfer the amount of film needed each day to your camera bag, then you won't have to fumble with wrappers and boxes when time can be spent shooting.

2. Dress warmly. Purchase an outfit with lots of pockets to carry film and equipment. You will appreciate the extra pockets to put exposed film and rotate accordingly. Extra layers will allow you to keep warm as needed, and the inside pockets will provide an area to place a camera to keep it warm with body heat between shots.

3. Bring lots of film. If it is available it will be expensive. Better to have too much than too little.

4. Use small hand warming packets sold at camping equipment stores to keep larger items warm.

5. Use waterproof bags to keep equipment from getting wet. Getting in and out of zodiacs (rafts) can get wet! Don't take chances with expensive gear! Also protects from melting snow and ice.

Your time spent in the polar regions will be much more enjoyable when you Think Ahead! ■

International Association Of Panoramic Photographers, Inc.

*Statement of Revenues and Expenses and Changes in Fund Balance-
Cash Basis For the Year Ended December 31, 1997*

Revenues

Dues	\$23,171.14
Advertising	6,425.00
Raffle	1,800.00
Boutique	167.95
Boca Bash	525.00
Total Revenues	32,089.09

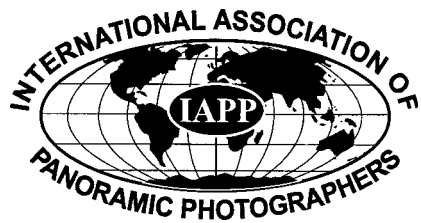
Expenses

Advertising	751.89
Bank Charges	286.30
Dues & Subscriptions	200.00
Editing	4,000.00
Boca Bash	171.31
Insurance	200.00
Graphics	400.00
Licenses & Permits	587.50
Mailing	5,741.74
Office Expenses	928.61
Printing	19,052.22
Professional Fees	1,150.00
Special Services	308.70
Telephone	1,022.68
Total Expenses	34,800.95

Excess (Deficiency) of Revenues Over Expenses (2,711.86)

FUND BALANCE-BEGINNING 16,284.22

FUND BALANCE-ENDING 13,572.36



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First Class Mail

This issues cover panorama was photographed by Marty Friedman, using a Noblex 135U. He then rendered it in Photoshop and printed the image on an Epson Stylus Photo printer. See more of Marty's panoramas on page 26.

