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Submissions from page 20

should be saved as Word (.doc) files, .txt files, or .rtf files. Articles can also be sent via e-mail as an attachment or as the actual content of the e-mail.

Photographs:

Photographs can be supplied as prints, transparencies or digitally.

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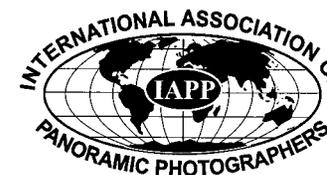
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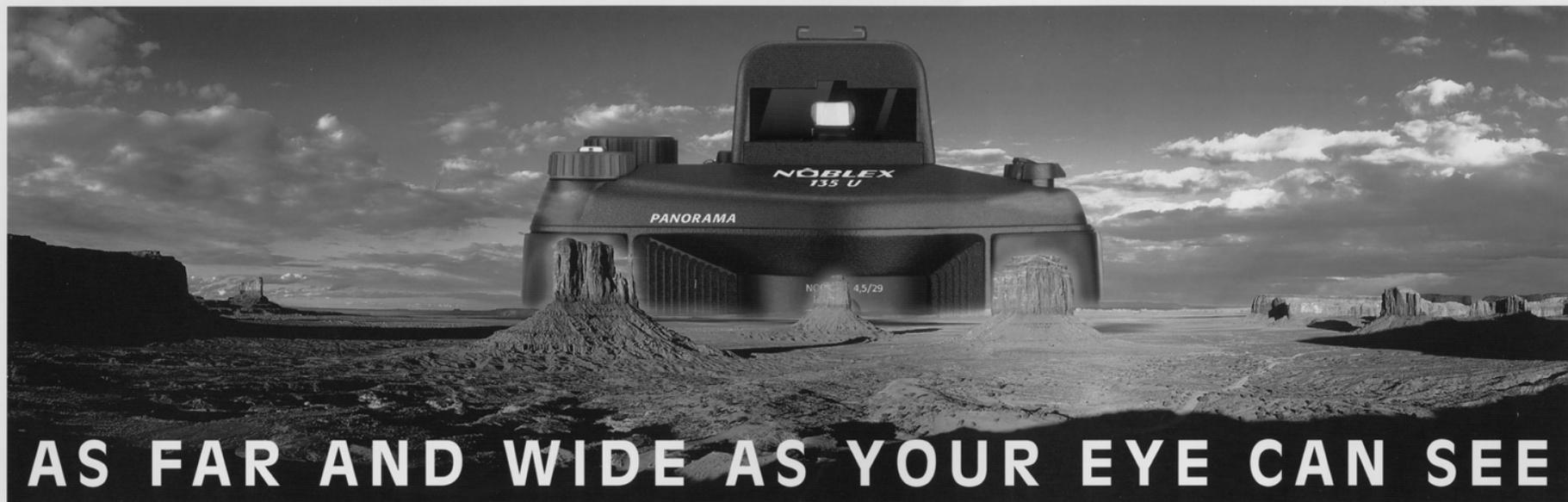
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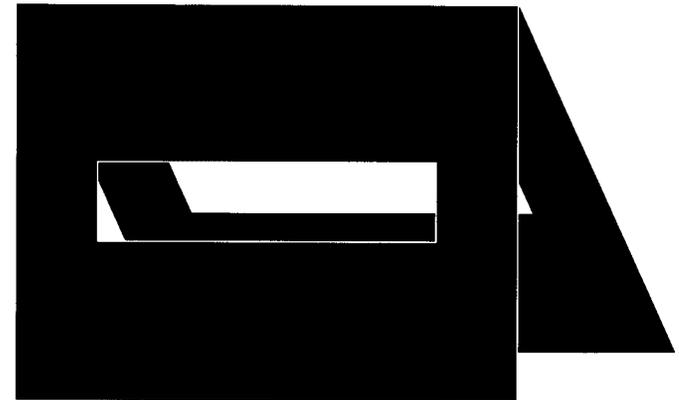
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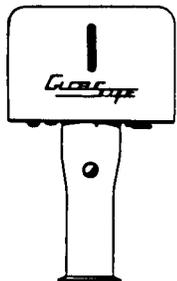


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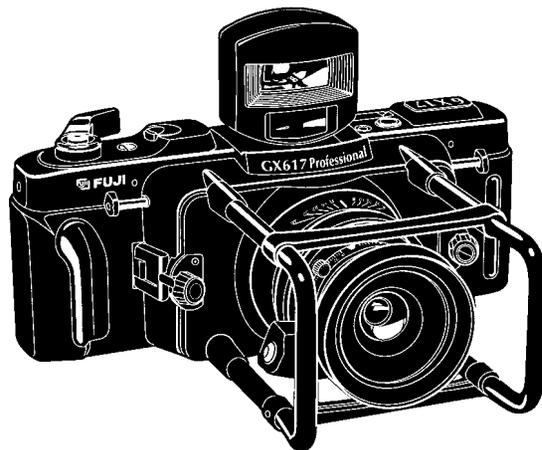
Welcome to our new members joining IAPP.

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 Dave Cecaci - CA
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 William L. Owen - UT
 Kevin Frest - CA
 Rick Taylor - GA
 Samuel Hoffman - CA
 Kenneth Parsons - TX
 David Gilmore - IL
 Warren Marr - CA
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 Richard Campbell - NY
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Think Ahead! Keep In Touch With IAPP Contacts



By Everen T. Brown

The Moab Convention was great! You have met a variety of interesting people, taken countless panoramic photos and enjoyed the spectacular scenery that Arches and Canyonlands have to offer. Now it's back to your regular routine.

Before you settle into that old day-to-day grind, why not take some time and review all the cards and information that you received at the convention. Then jot out notes to those new friends you met and let them know it was great to meet them. Many friendships grow out of IAPP Conventions. It provides a unique network of people who specialize in panoramic photography. You never know when you'll need to have questions answered, and it is easier to call on friends.

Drop a note to those suppliers who have products which interest you. Get the information you need, before you forget who offered what. Take advantage of their convention specials.

IAPP members are a fabulous resource. Now that you have met them, keep in touch. Make the most of networking, when you THINK AHEAD. ■

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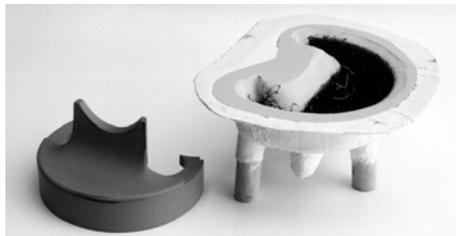
Building A 5-Inch Rotating Pan Camera

By Kurt Mottweiler

At the recent IAPP International Convention in Moab I had the opportunity to show the current state of a camera design project I am working on. Unfortunately, a package of newly anodized parts failed to arrive in time to allow the complete assembly of the camera mechanism. I did display what I could and had many enjoyable conversations with members about the project.

The camera is designed for the expressed purpose of mountaineering. The primary goals are small size, low weight and ease and quickness of use. This means that the camera has no external controls or batteries. It will weigh just over 5 pounds and is approximately 7 inches long, 5 ½ inches wide and 8 ½ inches tall.

A microstepping motor control system was used which currently allows for shutter speeds from 1/125 second to 8 seconds. Circuit modifications would allow for a longer range on the low side but weight/size constraints limit the upper speed. A rotating slit mechanism allows the user to select between 3 taking slits and one viewing slit. A removable slot cover on the back of the removable back allows for composition with the rise/fall adjustment through a ground glass mounted on the film guide. This must be



View of lower front body pattern with silicon mold and first resin layer in place.

done prior to loading film. With a suitable leader and trailer on the custom quick change spools the camera can be used in much the same way as a view camera - considering each film load to be a single shot. Reflex finders are nice, of course, but weight and size prevail in this design. An external finder could be used as well.

The camera is operated by a PIC microcontroller. Custom circuit boards mounted close to top of the camera carry the microcontroller, regulator and interface circuitry. A third board mounted in the bottom of the camera with motor carries the microstepping controller. The user interface consists of 4 buttons and a 2 line by 16 character LCD for the electronic chores and a top mounted control knob for each of the rise/fall (½ inch either direction) and slit changing functions. Each slit choice is reflected in the LCD display as a size and corresponding rotation time. The user has menu choices of shutter speed, rotation angle, rotation angle increments, slit choice and exposure delay. The standard display shows current shutter speed, time delay, slit, rotation angle and rotation time.



View of camera with patterns for front of body. Battery shown in compartment without door.

In operation, the user will first set up and level the tripod. Then the camera will be mounted via quick release and the shot suitably composed. Next, depending on the height of the camera setup, the user will load the film, set the operating parameters (all controls including the view of the aperture control ring are accessed from the top of the camera) or remove the camera from the quick release and then proceed as above. The user settable time delay allows the camera to be setup to run after the user has had sufficient time to replace the camera on the tripod when the camera is mounted higher than the user can easily access. Loading the film is quick and easy. A custom spool set (user loaded with or without leaders and trailers) allows the spools to simply lowered over their respective supply and take-up spindles and locked in place with a few turns of the spindle lock knobs above the spools. The film is pulled across the film plane and taped onto the take-up



Top view showing film reels and release knobs, rise/fall knob (top left), 4 control buttons on printed circuit board and slit control knob (below buttons).

spool. The film guide is then engaged in the top bracket and swung down into place until it clicks into the lower retainer. The whole operation takes about 20 seconds and is easily done in the dark in the case of leaderless loads.

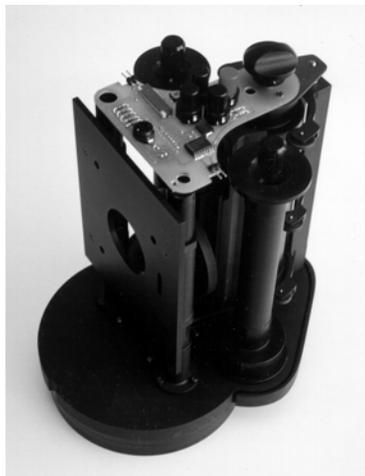
The power supply is a pair of prismatic NiCad batteries interchangeable with AAA alkaline backups. The batteries are quickly inserted into a pair of hinged compartments with pressure contacts located on either side of the camera just behind the lens. Spares can be easily carried in a pocket and in case of extremely cold weather can be warmed under the arms prior to making an exposure. Run time is of course controlled by various factors including temperature, time between uses, battery condition, etc. Typical warm weather, fresh battery use should give about 1 hour of run time. That's less than with a heavier lead acid pack but battery replacement is very quick and can be done with film loaded. A special charger allows a pair of packs to be charged at the same time. The camera design originally incorporated "gas gauging" for the batteries but is not implemented in the current configuration. It may be added at a future date.

The mechanical system of the camera is constructed entirely of aluminum and the body parts are molded composite. Special thin section bearings are used in the base and film drive mechanisms. A hybrid friction drive is used to rotate the camera body and the primary drive is designed to be either O-ring or timing belt operated. There is only one mating pair of gear surfaces in the entire drive. No gear

5-inch from page 27

reduction is used for the motor.

I have long-standing plans to build either a 120/220/70mm camera or a 9 1/2 inch camera based on some of the ideas incorporated into this project. Or perhaps I will revisit the two motor concept to allow for interchangeable lenses. ■



Above: View showing lensboard, supply reel, control board, film retainer wheels, and slit control knob.

Right: Side view of camera showing film spool, film retainer (at right), lens standard (at left), control knob (top right) and spool removal knob (above spool). ■



Making Your Own Bellows

By Ron Klein

A new leather bellows for a #8 circuit camera is probably going to cost over \$400 if you can find someone to do the job.

If you feel brave, building a new bellows really isn't that difficult. As far as locating leather for the bellows, the closest you will find is bookbinding leather. Normal bookbinding leather is actually too thick, but there are thin leathers available through those outlets. There is a fellow advertising in Shutterbug Magazine who has bright red leather for bellows, but I'm not certain of the sizes he offers. There is a source in Scotland that is very good.

I have made bellows for several cameras over the years, and although it was a learning experience every time, I was satisfied with all of my attempts.

If you have your old bellows it is of great help. The first thing to do is measure the length of the bellows totally stretched out. You will need to make a form that is this shape but slightly longer. This form can be made out of plywood or 1" pine shelving. I must be the exact shape. If you have the rear wood frame from the original bellows that will give you the exact size to make the big end of the form. Since I am a stickler for not destroying original parts, it would be better to make a new frame to the exact shape. Likewise make a front frame although on the #10 camera. It is like a piece of plywood with a round hole in it.

You can find a good black cloth in any fabric store that will work for the inside material of the bellows. Try not to get

really heavy or thick material, remember it must be folded later so it needs to hold a crease.

The type of glue I have found to be the best is "CornerWeld" which is like "Elmer's" glue only it dries elastic. This glue is available through professional picture framing suppliers. We use "CornerWeld" to glue wood frames together. The fact that it is elastic helps greatly when it is time to fold.

If you are a messy gluer, wrap the form with wax paper or plastic wrap so the glue won't make the cloth stick to the wood when it dries. Remember that you have to slip the form out of the bellows.

Wrap your inner cloth around the form so the seam is on the top of the bellows. Have at least a one-inch overlap. Carefully glue the edge seam so the inside edge is fully glued. I use a small paintbrush to apply the glue. You don't want pools of glue, just enough to do the job. Make sure everything is reasonably tight, hand rub the seam and let dry.

When the glue is dry the next step is to layout the front and rear of the bellows and figure out where the bats are going to be glued. Use some type of marking pen that gives you a line that is easy to see i.e. white china marker kinda works. The success of the bellows is determined by how well you can markout where the bats are glued. The lines must be square to the bellows and properly spaced. This is where the old bellows helps a lot. If you don't have the original bellows it might be good to build a practice bellows out of craft paper first. You don't want the pleats to be too big or small in the wrong places.

This is where you notice that every pleat is slightly different from the one next to itself. A tapered bellows has to fold up in a well-laid out mathematical design so pay attention.

Find tag board at a good paper store that matches the thickness of the original bats. I have used double weight photo paper in times past and it works, but it isn't exactly the same. When you find the right paper for the bats let me know, as I don't have a good supply of that kind of stuff here in Alaska.

From here it is quite easy. Glue the bats to your marks, let dry, and then put on the outer covering. Make sure the seam is on the opposite side as the inner cloth. Let dry overnight so you know it is dry.

Remove the bellows from the form, and start folding. I don't think it makes a difference as to which end you start from, but pay attention to the direction of the first couple of folds. After that, you will be amazed at how easy it will fold into a perfect bellows. Attach the front and rear frames and install in your camera.

If I've made it sound easy it is because I think it is. The whole secret is having the right materials and doing a proper layout job. I will confess, putting the little tab in the center to prevent sagging can be a bear if you want to do it the original way where it is somehow glued under the leather and comes out through a slit. It is better if you glue it to the outside so you don't take a chance of creating a light leak.

Remember that you are doing all of this painstaking work because you love and

More bellows, page 32

Cullman Tripods

Revisions of the Bylaws

Below are the revised bylaws voted on and approved 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 artistic and technical ideas, the free sharing of information 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. The Outgoing President shall remain on the Board as Chairman of the Board, with no voting privileges. 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 regular meeting, additional nominations from the floor shall be permitted.

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

Section 4. No member shall hold more than one office at a time and no Director shall be eligible to serve more than two consecutive terms. Any part of a term in excess of 10 months shall be considered a term.

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 approximately 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 to the Secretary, 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.

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 Newly Revised 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 25 members will be submitted to the Secretary who will place the notice of the proposed amendments in the IAPP Magazine.

IAPP Convention from page 15

and at every International Convention.

Two special awards were given this year, to IAPP members who go beyond the call of duty. Richard Schneider works at the National Archives and supplies Panorama magazine with a Historic Panorama article for each issue. He has been an avid supporter of IAPP an active participant since becoming a member and was elected to the Board of Directors at this convention. Richard received the IAPP Member of the Year Award. Congratulations Richard!

What can be said about Richard Fowler? Dick has been with IAPP since the beginning. Without his total devotion and work, IAPP might not have even survived. For over ten years Dick was instrumental in the running of IAPP and helped guide it towards where it is going today. Richard received the prestigious PPA National Award of Merit and I must say there is no one more deserving! Congratulations Dick!

During the business meeting our by-laws were revised and voted on. The by-laws are on page 30 of this issue. New Officers and Board of Directors were elected. Meet them on page 3.

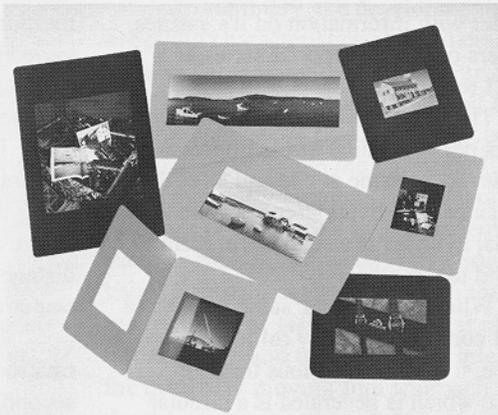
As you can see from the photographs, everyone had a great time in Moab. If you couldn't make it to this one start planning for our next International Convention, to be held in Quebec City, Canada in 1999. More details in the next issue of Panorama. ■

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This month's cover photograph by Thomas Bleich, took home first place in the Rotational camera category at the IAPP Convention in Moab. It also won the Fuji General Award. This makes this image the best of show also, because the Fuji winner could be printed on any brand of paper, and shot on any brand of film.

Bellows from page 28

admire that fantastic old circuit camera. Treat it right and it will make you money and give you many hours of pleasure doing something most other photographers can only dream about. It isn't the perfect machine, it is slow and awkward, but it is a lot of fun as well. Go for it, because years from now you can point to the bellows with pride and say "I made the bellows!!!" ■

