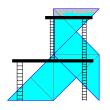
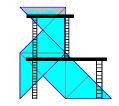
Vol. 1 No. 1 February 1, 2001



Scaffold



Helping to support and maintain the world of origami

After years of delay, SCAFFOLD is here!

Hello, everyone, and welcome to SCAFFOLD. Years ago while I was the editor of MANIFOLD, the Chicago Area Origami Society newsletter, I realized that there is an abundance of original origami designs and a shortage of welldistributed space to hold them. As a result, there are pockets of creativity where only the local folders have knowledge of what is being created. I was willing to produce a newsletter dedicated to diagrams. I would distribute this newsletter to origami groups for free. Individuals could also receive the newsletter for the price of postage. I showcased my idea at a small Midwestern convention to the approval of the folders there. Over the years the World Wide Web has helped to increase the available space for sharing diagrams. But even still my original idea of a free newsletter dedicated to sharing new folds with the local origami groups has validity. With newer technology I can

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offer SCAFFOLD for free to all who are interested and not just a collection of groups.

Many of you may be wondering who I am so let me introduce myself. My name is Joshua Koppel and I am a member of the Chicago Area Origami Society (CHAOS). I have been folding for more than thirty years and have created a large number of origami designs. I was editor of Manifold, the CHAOS newsletter, for three years as well as a member of the Amateur Press Alliances Fold and Imagiro. I actively fold, design and teach origami at every opportunity. Now I hope to aid in the spread of original origami.

Diagrams

The main focus of this newsletter is the sharing of folds. This will be done in two ways, with reviews of books and with diagrams of unpublished, or limited published, diagrams. I currently have a cache of models to share in the early issues, but to make this newsletter a true success, it needs submissions from other folders. My intent is to target origami groups as well as individuals. I would like to send issues to each of the local groups but it may take some time to compile a complete and accurate listing so any help would be appreciated.

I will accept diagrams electronically or on paper but electronic diagrams are faster to process. Electronic diagrams should be sent to scaffold1@aol.com while printed diagrams can be sent to: Joshua Koppel PO Box 641374 Chicago, IL 60664-1374

All diagrams should be accompanied by a statement consenting to their publication in this newsletter. Diagrams without such a statement will not be published until such a statement is received.

It is possible for me to diagram models for others but my time for such activities is limited as I am trying to get my own collection of original models committed to print. Thus any diagrams I need to create could take a number of issues before it sees publication. For the most part I will use diagrams as they are submitted with no changes unless requested by the designer.

Subscriptions

Subscriptions to SCAFFOLD are free as it is an electronic newsletter (maybe diagramletter would be a better name). I hope to publish on a monthly basis but this is a labor of love so I will not make any guarantees at this time. As time goes by production should be smoother. In the future, print copies may be available in certain circumstances but not yet. Subscribing is easy. Just send e-mail to scaffold1@aol.com and let me know where you would like your issues sent. What could be easier?

If you have received this newsletter and do not wish to receive it again, please contact me at scaffold1@aol.com and accept my

apologies.

If you know of anyone who would like to receive this newsletter, please let me know at scaffold1@aol.com and I will add them to the distribution.

3D Origami

3D Origami by the Boutique-sha Staff is an unusual book. This volume is dedicated to modular figures and decorations made from a simple triangular unit. There are a number of books that concentrate on these units but 3D ORIGAMI is available in English and thus easier to find.

Folders who enjoy modular creation using large (and I do mean large) numbers of units should find this book entertaining. Those who do not see the point of using 398 units to create a cute owl when so many single-piece owls are possible, should probably pass this one by.

Folders who do delve into the pages of this book will probably notice an unusual layout style. Actually, the style is quite common. It just doesn't usually show up in books with ORIGAMI in the title. The designers of this book usually concentrate on a different craft altogether. Anyone who has looked at collections of knitting, crocheting or other needlecraft will recognize the pattern layouts.

If the folder follows the patterns in this book they will be rewarded by many attractive figures including birds, fish, fruit, crane decorations and more. But this is a specialized book that should appeal to only a small number of folders.

3D ORIGAMI is from Japan Publications (ISBN 4-88996-057-0) and sells for \$17.00 US.

Joy of Origami

JOY OF ORIGAMI by Kunihiko Kasahara is another in a long line of excellent volumes. Joy is currently only available in Japanese and most on-line ordering sites have very little information about the contents.

Most of this volume is dedicated to animals of a complexity similar those found in ORIGAMI OMNIBUS and other Kasahara books. Most of the animals utilize a new method or style for forming the legs. Like Kasahara's other work, the quality is excellent. One of my favorite models in this book is a flying squirrel, a very seldom-folded animal.

Part of the book is dedicated to more abstract folding such as a Cheshire cat formed with only a few folds on a square surface. The last section of the book deals with folding and weaving long strips of paper.

JOY OF ORIGAMI features clear diagrams in the style familiar to anyone who has folded from one of Kasahara's previous books. The models are creative and attractive thus pleasing to fold. I give this book a high recommendation.

JOY OF ORIGAMI (ISBN 4-916096-32-0) lists for 2,400 Yen.

CHAOS Notes

The current style of a CHAOS meeting is different from what it was in the past. Many of the same activities of sharing folds and books, teaching, and conversations are still present. By meeting in a Chicago Park District facility CHAOS now gets a substantial walk-in business. The Garfield Park Conservatory is a popular family site and its recent addition of a children's wing will ensure many new faces at each meeting.

Young and old are welcome to the meetings and many of our members are well versed at teaching all ages. Some people who have walked in have continued to return to our meetings while others may only be seen once. But the open-door policy has attracted the attention of a local children's show.

The show is UP'N RUNNING and is a weekly, half-hour, fun and fast-paced informational and educational program featuring events and personalities of interest to children 6-12 years of age. The show is hosted by Erica Hubbard & Ryan Pfeiffer. Robert Smith, the CHAOS contact, was on the hot seat. The show taped almost immediately after the initial contact. Robert also had to answer a full battery of questions about origami, its history and his involvement with it. Robert reports that all went well.

CHAOS Schedule

CHAOS, the Chicago Area Origami
Society, meets on the second Saturday of
every month at the Garfield Park
Conservatory from 1:00 PM until 4:00
PM. The Conservatory is located at 100
N. Central Park Ave. Meetings are open
to all folders of all skill levels
(including first-timers). CHAOS
welcomes all comers so if you should be
in the area go ahead and stop in.

The meeting schedule for the next six months is as follows:
February 10, 2001
March 10, 2001
April 14, 2001
May 12, 2001
June 9, 2001

New Books

I have managed to pick up a number of new origami books recently. In future issues I plan to have reviews of many of them. These books are JOY OF ORIGAMI by Kunihiko Kasahara (Japanese) (ISBN 4-916096-32-0) 3D ORIGAMI (English) (ISBN 4-

88996-057-0)

ORIGAMI INSECTS Vol. 1 (Japanese w English titles) (ISBN ORIGAMI TANTEIDAN 5th CONVENTION (Japanese w some English)

ORIGAMI ORNAMENTS by Lew Rozelle (English) (ISBN 0-312-26369-4)

ORIGAMI MONSTERS by Isamu Asahi (English) (ISBN 0-8048-1867-3) PAPER CRYSTALS by David Mitchell (English) (ISBN 0-9534774-2-8) STAR TREK PAPER UNIVERSE by Andrew Pang (English) (ISBN 0-671-04215-7)

Diagraming

Over the years I have used many methods for diagraming origami models. The current method I am using turned out to have a few surprises. The biggest of which was diagrams that folded themselves.

A little while ago I had need of a CAD program for work. Not wanting to spend a lot of money I picked up two low-priced programs at a major office supply chain. Of the two I found DeltaCad from Midnight Software to be the easier to use. Naturally I decided to see how well it worked with origami diagrams.

As with any decent CAD system, I was able to give line angles and lengths where I needed them as well as free hand. But it was when I experimented with the Rotate Around A Line tool that I discovered I could use this program to actually fold the diagram. With a few simple clicks I could take a diagram with fold lines and have the program make the folds for the next diagram. Because the computer folded the diagram, all of the line lengths and angles were preserved, thus speeding up my diagraming time.

I am sure this feature is functional in other programs. One only needs to break the paper lines where

they intersect the fold lines. Then select the appropriate lines and rotate them around the fold line. You will then have an accurate picture of how that fold works.

The really amazing thing about this is the program cost an entire five dollars.

Enigma Cube

While surfing the Web recently I found a site dedicated to the Enigma Cube by David Mitchell. This beautiful model appears in Paul Jackson's THE ENCYCLOPEDIA OF ORIGAMI & PAPERCRAFT TECHNIQUES. But there were no diagrams or other instructions included except that the unit was simple and there were twelve of them.

A later search located the book PAPER CRYSTALS by David Mitchell. A description mentioned the Enigma Cube. After a little while I found an easy way of ordering this book. I made a phone call to Fascinating Folds and placed the order.

With the book on order I decided I had to reverse engineer the model from the small photo before the new book arrived. I quickly came up with a unit that worked. I also found another unit that would require fewer pieces to complete the model. Unfortunately the assembly was a little tricky as the curves wanted to be straight until completion; a few extra pairs of hands would be helpful.

I eagerly anticipated the arrival of the book. Would my solution be similar or different? The book arrived. I discovered that I had stumbled upon the same unit but that David Mitchell also had a 6-unit variation that was much easier to assemble

I may have purchased the book because of the Enigma Cube but, I quickly learned that it was not the only amazing fold in the book. A complete review of this excellent book will appear in the next issue.

Consent

When sending in diagrams for publication, a statement of consent is required. This statement should include the model creator's name, diagrammer's name, name of model, date, and a clear statement that you would like these diagrams to be included in a future issue of SCAFFOLD.

A consent form will soon be available online and through this newsletter.

The Models

Rocket

I created the Rocket some time ago while I was in high-school. But it was in college that I really took to the model. Asteroids was a popular game on campus and the Rocket resembled the ship in the game. Suddenly I was producing origami trophies for anyone who reached one-million points. This was a model people really wanted to receive from me.

Extended Bird Base

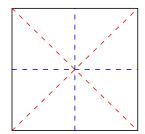
This base is about ten years old. I created it during my early involvement with CHAOS. I stumbled onto it after fiddling with the blitzed bird base. While I created a number of models from the blitzed base, I found the Extended Birdbase lent itself to new models more easily.

Flapping Crane

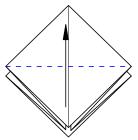
One of the first models I created from the Extended Bird Base. Once I had the base, folding a crane seemed natural. Imagine my surprise when I discovered the model's ability to flap its wings.

Rocket Ship by Joshua Koppel

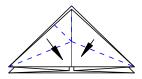
This model works very well with a small square. If using paer that is not colored the same on both sides, begin with the color you want face down.



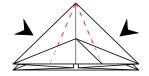
1. Fold a preliminary base.



2. Fold all 4 flaps up.



3. Rabbit ear all four flaps.



4. Inside-reverse the four points.



5. Valley fold short edges to center on all four sides.



6. Pull the four points to the top.



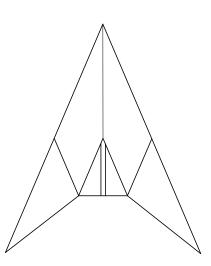
7. Fold on flap to the left.
Repeat behind.



8. Fold 4 bottom points up as far as they go.



9. Swing down the 4 hidden points.

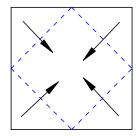


10. The completed rocket.

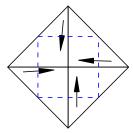
Extended Bird Base by Joshua Koppel

This is a very versatile base. I have used it to create a large number of models.

Begin with a square sheet of paper with the white side up for a colored model.



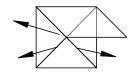
1. Fold all four corners to the center



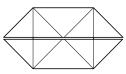
2. Fold all four corners to the center again.



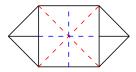
3. Pull out one of the hidden corners.



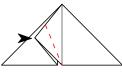
4. Pull out the other three corners.



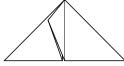
5. Turn over.



6. Form a preliminary fold in the center.



7. Sink point.

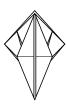


8. Repeat step 7 on other 9. Squash all four corners up. three sides.

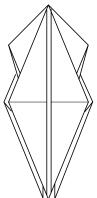




10. Petal fold the front flap.



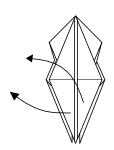
11. Petal fold the other three sides.



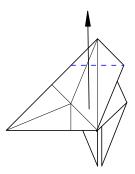
12. The completed Extended Bird Base.

Flapping Crane by Joshua Koppel

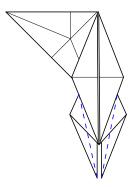
Begin with an Extended Bird Base with all flaps down.



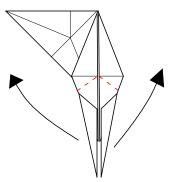
 Open up wing and fold to the left. Repeat Behind.



2. Fold both wings up.

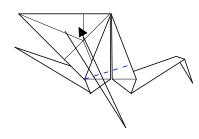


3. Narrow points with valley folds. Repeat behind.

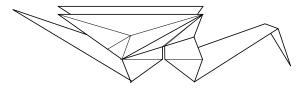


5. Inside reverse head down.

4. Inside reverse both points up.



6. Fold wings down and back up.



7. The completed Flapping Crane. Hold neck and pull tail to make it flap.