

# METAL WORKING

## KLEB WOODS NATURE CENTER

JANUARY 15, 2011, 9 AM TO 4 PM

PROFESSOR EMERITUS, VAL LINK,  
DEMONSTRATES FOLD FORMING COPPER AM  
COACHES FOLD FORMING WORKSHOP PM



Val will demonstrate a metal forming technique called fold forming. A thin piece of copper sheet is bent, shaped with a hammer, annealed and reopened to reveal an astounding metal form. The goal of the event is to give each participant enough hands-on experience to explore the limitless possibilities of fold forming. The process is applicable to other non-ferrous metals like gold, silver and aluminum, and malleable ferrous metals like low carbon steel.

Val plans to begin the demonstration with a couple of basic forms and progress to a few more complicated forms during the morning. In the afternoon he will coach participants at whatever level they choose to start the hands-on workshop.

Three by three inch pieces of copper in different thicknesses, 30, 24, and 20 gauge, will be available for use by the participants. If participants wish to use larger pieces of copper for the workshop, participants need to supply it.



Participants need to provide the basic tools for the workshop part of the program. All of the work will be done on table tops in the meeting room at the Kleb Woods Nature Center.

The tools include:

- ◆ A piece of metal or a small anvil not weighing over 15 pounds.
- ◆ One or more hammers which have a rounded cross

peen and face, or peens on each end.

- ◆ An old butter knife or similar looking tool to open the folds.
- ◆ A tin snip if you have one.
- ◆ A pair of gloves.
- ◆ Safety glasses with side shields.



## Schedule

8:00 AM - The park opens.

Many hand tools need to be taken into the park on a long one way road. To minimize traffic problems, hand tools will be consolidated in as few vehicles as possible to avoid someone having to back up. Tools can be hand-carried in at any time or brought in on personal two wheelers.



9:00 - Demonstration begins.

Noon - Lunch - Eat out or pack a lunch.

1:00 - Workshop Begins.

4:00 - All work stops, pack-up, clean-up depart by 4:30.



## Directions to Kleb Woods

Kleb Woods is west of Mueschke RD at 20303 Draper RD. Here is a Google Map link: <http://maps.google.com/maps?ll=30.07513,-95.741397&z=16&t=h&hl=en>

Heading south on Mueschke from FM 2920, Draper RD is the first road to the right. Look for the park signs.



## A Little More About Val Link

Val Link (M.F.A., Cranbrook Academy of Art, 1967) is an internationally recognized educator, artist, and gold and silversmith, whose work appears in the collections of fine arts and crafts museums and of private collectors. He established the jewelry and metal smithing area in the Art Department at the University of Houston in 1970 and ran it for 37 years. This program had undergraduate and graduate programs that produced numerous winners of national design competitions. His honors include the Master Teacher Award of the College of Humanities, Fine Arts and Communication. The metals program Val started in 1970 ended at the University of Houston with his retirement.

## Additional Fold Forming Resources

To get a wealth of additional information about the fold forming process, just do a search for 'fold forming'. Below are links to Ganoksin which have a wealth of information on this subject. There are also additional links on Ganoksin with great photos showing several T-fold processes.

<http://www.ganoksin.com/index.htm>

<http://www.ganoksin.com/borisat/nenam/chased-wedge-t-fold.htm>

<http://www.ganoksin.com/borisat/nenam/table-insert-forming.htm>

<http://www.ganoksin.com/borisat/nenam/basic-T-fold.htm>

Below is a You Tube video of Uri Hoffi forging steel and Charles Lewton-Brain fold forming. Charles' portion of the video starts about three and a half minutes from the start. It is interesting to see him working in a blacksmith shop setting instead of a jeweler's studio.

[http://www.youtube.com/watch?v=lu\\_HzyHqoaU](http://www.youtube.com/watch?v=lu_HzyHqoaU)

Come join us at Kleb Woods,  
January 15, 2011!

