



METAL ARTS

SOCIETY OF SOUTHERN CALIFORNIA

Jan Feb 2015



**MASSC 2015
Jewelry Challenge
May 1, 2015**

President's message next page for details





President's Message

from Diane Weimer

For many years, Corliss Rose has been our Webmaster for mass-online.com, the Metal Arts Society website, where so much of our news details are disseminated. The countless hours she spent gave us our web presence and her maintenance of the site has been invaluable. It will be difficult to find someone to

give so unselfishly of his or her time. The upkeep of our existence on the Internet is paramount to keeping our membership informed. To that end Corliss has served MASSC well and we thank her for that. We wish her well in her new responsibilities and endeavors.

The Jewelry Challenge 2015 is on our horizon. The committee has met, the timeline is set, and we have purchased the materials that will be in the box. There will be more silver in this year's box of materials and something from the sea.

These are the particulars regarding the timeline, the box and it's contents (a surprise).

- box will cost \$40
- to be paid to MASSC by Feb. 20.
- box will be sent March 6.
- entry is due May 1 along with the statement and your headshot.
- choose a minimum of 5 items from the 9 items in the box to make a wearable piece of jewelry.
- wildcard can also be used..
- statement and headshot must be turned in when you turn in your entry.

The prizes are first place \$500, second place \$250 and third place \$100 besides a prize for honorable mention. It is an exciting event and we all look forward to it.

Jewelry Challenge 2015

- Jan. 2 – announce with blast to membership
- Jan. 20- Registration for Jewelry Challenge begins
- Feb. 20- Money due from participants
- Mar. 6- Send box- include entry/application
- Mar, 6 – May 1- to make the piece, create bio/statement, and headshot
- May 1-Entry to be received by MASSC
- May 1- May 29- prepare for luncheon
- Lunch to be announced later

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MASSC web site: www.massconline.com

MASSC Newsgroup: MetalArtsSociety-subscribe@yahoogroups.com

MASSC on FaceBook: <http://www.facebook.com/groups/134035216002/>

MASSC serves the needs and interests of artists working in metals and provides an environment for the exchange of information, instructional workshops, demonstrations, lectures, and panel discussions. Annual dues Sept 1-Aug 31); Regular Member, \$30; Family, \$45; Full-time Student \$20. Please add \$20 to your annual dues if you would like to receive a printed copy of the MASSC newsletter. All others will receive the newsletter via email. Membership forms are available at www.MASSOnline.com

It's "Tevel Time" again in Irvine!



By Trish McAleer

ALLCRAFT JEWELRY SUPPLY SPECIAL MASSC SALE SUNDAY, FEBRUARY 15, 2015

1:00 to 5:00 pm

Be sure to mark your calendars NOW to save the date Tevel and Sarah Herbstman from Allcraft Jewelry will again be here in Southern California to bring you specialty tools and supplies. For convenience and lack of traffic conflict, this event being held SUNDAY this year for much easier Southern California navigation.

Make a day outing of this, another chance for us to get together because we love seeing all of our old friends and catching up as well as meeting the new members and putting a face with a name. After all, Tevel and Sarah have come all the way from New York to be here!

Start making your list now Tevel loves to hear from you, and then call him to talk about what you are doing and working on. Be sure to let him know what YOU want him to bring and what exciting things he has on hand, that you might not be able to live without.

Some ideas to get you going: Eid-Longhi "no twist" Delrin anticlastic stakes, metal stakes, punches, hammers, Gossiba, a premixed liver of sulfur patina solution, soap stone, gold or silver Keum-boo sheet and agate burnishers?

Do not wait until the last minute, if you have a specific request or something you want Tevel to look for, you can also contact him by email at allcrafttools@yahoo.com, include the subject line "MASSC-Southern California" and he will try his BEST to accommodate your request!

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email: allcrafttools@yahoo.com

MASSC CHRISTMAS PARTY

In mid November, MASSC held its holiday party in Laguna Niguel at Ketarah Shaffer's house. Angela Roskelley was the "organizer extraordinaire" preparing games, filling the swag bag and welcoming the members to the party. We had about 34 people at the party, even some San Diego people like Ann Rosier and Karen Rood attended. Melinda Alexander is such a supporter of MASSC; she had lots of her students present.

Everyone brought a dish. We had salmon, cheesecake, chips and dips, salad of so many kinds and so much more. Once we had our plates full, we sat down in the spacious living room and the party began.

Angela began with an icebreaker a series of questions based on the color M & Ms you chose from the bowl that circulated the room. You chose 3 M & M's, one to eat and two to share answers based on the color of the M & M. You were asked to respond to two of the questions. These questions were asked: a red M & M question was how or who introduced you to the Metal Arts Society, a green M & M question was what is your favorite tool and why, a yellow M & M question was, something you are proud of, a brown M & M question was something you would like to learn, and a blue M & M was describe a piece you have finished. Getting us all talking wasn't hard... it was probably getting us to stop talking that took some work.

About half the people participated in the ornament exchange. Ornaments were wrapped and each person who brought an ornament got a number. You opened it and showed it around. It could be "stolen" 2 times and then it was frozen with that person. We had a dove that John and Corliss Rose had made using the new tool they shared at Demo Day, Janette Parker made a stunning double Christmas tree complete with a star on top, Nohline L'Ecuyer made a delicate glass blown ornament, Deidre Gan made a brass orb with attractive bands across the NSEW diameters and so many more ingenious ornaments, many made of metal. So many talented people in one room!

The party ended with each person receiving a swag bag, which contained some various items and the flex-shaft tool some members had made for the party. The tool could be C-clamped to the bench, then the flex-shaft hand piece could be inserted in the large hole and tightened down so you could have a hands free tool, much like a lathe.

A good time was had by all! Don't miss it next year!





Michelle Ross

I started making jewelry fairly late in life though I have always made a living doing my art in different ways, the last of which lasted decades and left little time for “play”. I worked as a makeup artist and hair stylist for many years in film, TV and commercials. Trust me when I say it was not as glamorous as it sounds. It was very hard work and long hours.

When I was diagnosed with fibromyalgia nearly 18 years ago all that came to an abrupt end and I had to figure out what I was going to do with all of the hours in the day that working took up. I was trying to figure out why I was in so much pain, and whose body was this, because it certainly didn’t feel like mine. The only thing I was good for was watching TV but, there was a silver lining to this dark cloud hanging over my head. While at home, I discovered The Carol Duvall Show on HGTV. This began a journey into the world of crafts. Teaching was not new to me. I taught ceramics in a private studio near my home prior to working in film. I loved teaching! So I began to haunt local rubber stamp stores, and pitch my ideas for classes. I taught a lot of paper arts and book making.

One of my students was a producer on the Carol

Duvall show and convinced me to submit projects for the show. Carol liked my projects and so I became a regular guest on the show while continuing to teach. Eventually, rubber stamp stores were closing and Carol’s show got cancelled.

So there I was again with a lot of time and looking for some creative way to fill it. I was the president of the Los Angeles Polymer Clay Guild for many years. I was approached by the president of the local metal clay guild and asked to do a demo for them. My answer was “I will if you will do one for the polymer clay guild”.

So I was first introduced to metal arts through metal clay. I found metal clay very interesting, but knowing I needed more, I began to take as many metal smithing classes as I could. One of those classes was about torch fired enamel on copper. Eureka! I found my new passion. I wanted to devour everything I could about enameling.

I’m a little like a mad scientist when it comes to trying new things. I learn most things by trial and error .

I tell my students that my first rule (not withstanding safety) is “break all the rules”. Experiment, play, and most of all have fun.

I do draw in a sketch book, but my work rarely resembles the sketches. I have a “collage mentality”. By that I mean that I often don’t plan, I just start and see where things take me. This requires the ability to accept surprises and just go where the surprises take me. I love mixed metals, and copper being the base of all my enamel designs makes it really easy to use in conjunction with silver.

I don’t usually sell my work because I’m not a production artist. I spend many hours on a single piece, sometimes days. But never say never. There are works that I will sell, but mostly I teach. My classes are private or semi-private due to studio space. If you are interested in classes, email me at justhavefun1@mac.com





Courtesy of Van Cleef & Arpels

The Midnight Planétarium

is an incredible feat of engineering, design and artistic craftsmanship. Besides showing the time, this watch also accurately displays the movement of 6 planets in our solar system as they orbit the Sun.

Each of those 6 planets are represented by a precious or semiprecious stone selected to represent that planet's color – serpentine for Mercury, chloromelanite for Venus, turquoise for Earth, red jasper for Mars, blue agate for Jupiter and sugilite for Saturn. The two other planets in our solar system were excluded because the lengths of their orbits would make their movements on the watch imperceptible and impractical – Uranus orbits the sun in 84 Earth years and Neptune makes the trip in 164.

The watch took 396 pieces and 3 whole years of work to complete so, along with the precious stones dotting its surface, the \$245,000 price tag comes as no surprise. However, one can always dream!

The watch was presented to the public in Geneva at the Salon International de la Haute Horlogeri by the Van Cleef & Arpels jewelry and perfume company in partnership with Dutch watchmaker Christiaan van der Klaauw, who has been creating watches and clocks since the 1970s.



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Making a Screw Thread

Elementary Knowledge of Screws

by K. Hirata, National Maritime Research Institute

Machine screws are extensively used for securing parts. The number of different types and sizes of machine screws, nuts & bolts prohibit the possibility of introducing them all here so the following information addressed the elementary information only.

Types of Threads

Almost of the thread have triangle shaped threads. On the other hand, square shaped and trapezoid shaped threads are used moving machinery which need high accuracy, such as a lathe.

In respect to thread standards, there are a metric thread (M), a parallel thread for piping (PF), a taper thread for piping (PT), and an unified thread (UNC, UNF). The following information is related to metric threads, because they are the most widely used in Japan and many countries around the world.

Terms used for Threads

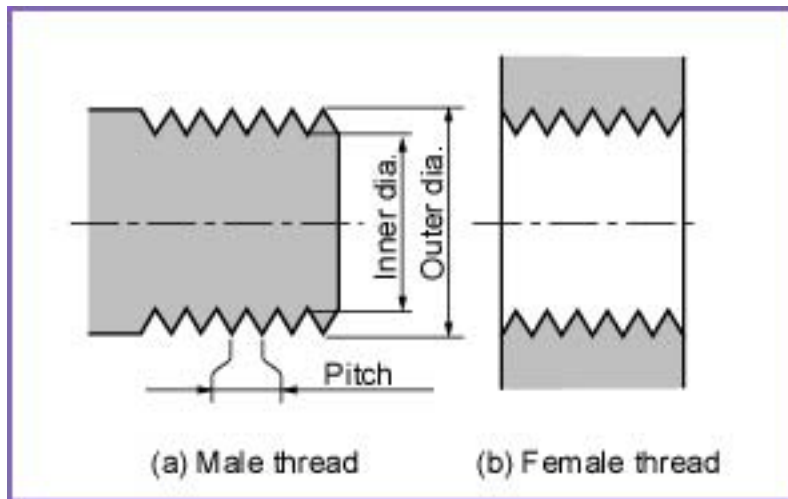


Figure 1 shown an image of a thread. One of the most important terms used is that of the outer diameter. In the case of a metric thread, the bolt is named in accordance with its outer diameter e.g a bolt with a 5 mm outer diameter is known as an M5 bolt.

The "Pitch" of the tread is another important feature of a thread. The pitch is defined as the interval (distance) be-

tween adjoining threads. e.g. Nuts & bolts must have the same pitch as well as diameter if they are going to be used together.

The principles of cutting threads in nuts and bolts is that the bolt (male thread) is usually cut from a rod of material which has the same diameter has the intended finished bolt. The nut is made from a larger stock which has a hole drilled through it that is slightly larger than that of the rod diameter. A thread of the same pitch is then cut which results in two mating threads. The same principles apply for cutting holes in places and other work pieces. (such an in the cylinder discussed earlier.)

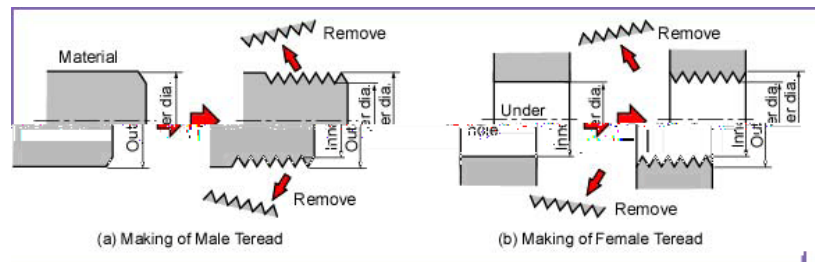


Fig.2, Imagine of Thread Cutting Processing

Screw and Clearance Hole

Screws are typically used for securing mating parts. When two pieces are joined together using screws, one piece is made with threads, and another piece is made with clearance holes, which have bigger diameters than that of the screws. If the diameter of the clearance hole is too small, the piece cannot be assembled as the screw will not fit through the hole. Also, if the diameter of the clearance hole is too big, the piece will be loose as the hole will provide a sloppy fit. Therefore, we must provide make suitable diameter clearance holes. As a "rule of thumb", the diameter of the clearance hole has more 10 % than the diameter of the screw. For examples, the clearance hole for a M3 screw has 3.2 mm or 3.5 mm diameter. the clearance hole for a M4 screw has 4.2 mm or 4.5 of diameter. And we would make a hole with 5.5 mm of diameter for a M5 screw.

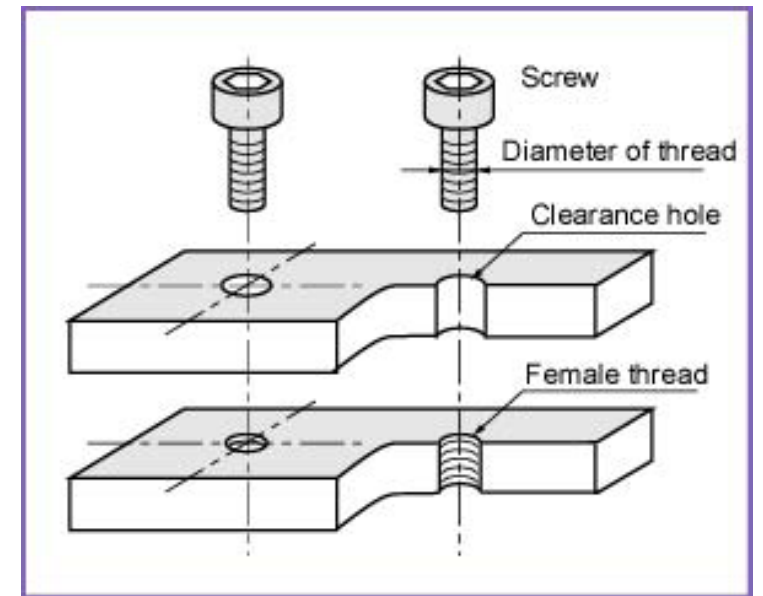


Fig.3, Screw and Clearance Hole

Thread Making Process

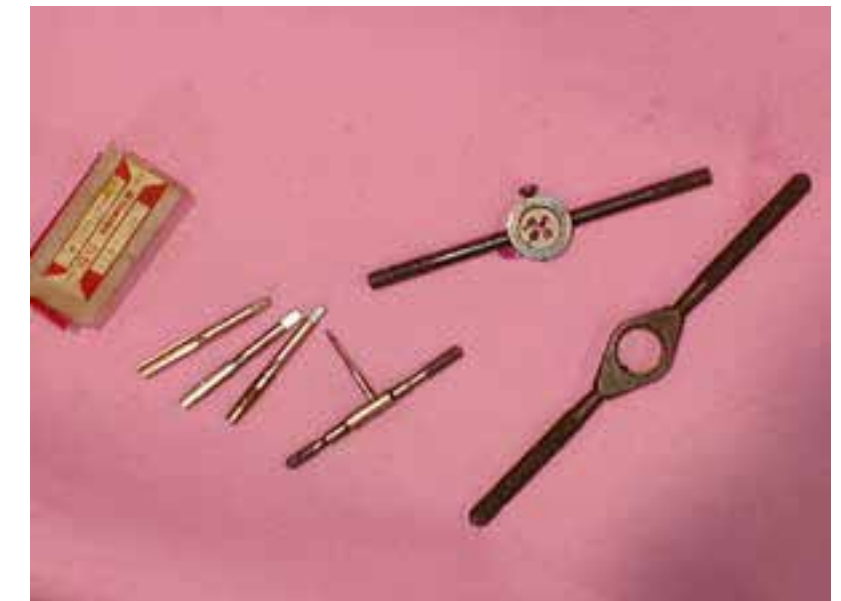


Fig.4, Tap and Die

When we make the male thread, generally we use a die tool. When we make the female thread, we use a tap tool. If we do not have the suitable tools, we can also make the thread using a lathe as described in Chapter 3.

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Caution

When we make the threads using the tap or the die, care should be taken in respect for the following.

- (1) Start the thread with a perpendicular positioning of the tap or the die.
- (2) Turn the tap or die in quarter turns and “back off” quarter turns to remove metal chips so that they don’t clog the tool.
- (3) Always use a cutting oil.

Thread Cutting using a Hand Tap

Figure 5 shows taps which are used to make female threads. They are usually used with a tap handle as shown in Figure 6. In respect to the tread cutting process, we first, we make a hole with suitable diameter and suitable depth (see Table 1). Next, we start to turn the tap in a clockwise direction.

There are typically three types of taps used as seen in figure 5. Of the three tap types there is a tapered tap to facilitate the initial thread cutting, an intermediate type that is used to progress the thread after it has been started and then finally, a “Bottoming” thread which is used to obtain the full thread depth when cutting a thread that does not go the whole of the way trough the piece.

Taps can be easily broken and if the tap is broken in the work piece, it can be almost impossible to remove. It is therefore, very prudent to take care to ensure that metal chips do not build-up in the tap and also that the tap does not overheat as a result of the cutting process through the use of a cutting lubricant.



Fig.5, Taps



Fig.6, A Tap with a Tap handle



Fig.7, Thread Cutting using a Tap

Recommended Tap Hole Size

Metric threads		Piping threads		
Under hole dia. (mm)	Name	Outer dia. (mm)	Under hole dia. (mm)	Name
1.6	PF1/8	9.7	8.6	M2
2.5	PF1/4	13.2	11.5	M3
4.2	PF1/2	21.0	19.0	M5
5.1	PT1/8	(9.7)	8.2	M6
6.8	PT1/4	(13.2)	11.0	M8
8.6	PT3/8	(16.7)	14.5	M10
10.3	PT1/2	(21.0)	18.0	M12

Table 1 lists diameters of hole sizes for metric female threads and piping threads (PT, PF). Please note that the diameter of the hole equals the approximate difference of the diameter

of the thread and the thread pitch. It may be necessary the allow a greater hole clearance if for example we were making a thread in hard stainless steel.

Figure 8 shows a die and a die handle which are used to make male threads. The procedure of the threading is the same of the taps. It is more difficult to start the thread cutting process than with tapping. Dies do not have an equivalent to a tapered starting tap as the die must be perpendicular when doing the tapping.

The thread cutting process using a die usually typically results in a smaller diameter of the original piece so care needs to be taken in selecting the correct size stock. If the stock is too small, this will result in a shallow thread depth resulting in an unsatisfactory thread. The die also created a bevel on the thread which is necessary for a close fit.

If you have a lathe, the job of cutting a thread can be easier as it is possible to use the “STOPPED” lathe to assist in starting the thread as shown in figure 9. The die is pushed by the drill chuck aligned perpendicularly to the piece and after. After enough thread is cut, the drill chuck is removed and the die handle is then turned by hand.



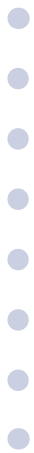
Fig.8, A Die and A Die Handle



“Word-spiration”
Vinculum

ving-kyuh-luh m
noun, plural vincula

a bond signifying union or unity; tie.



Each issue the MASSC newsletter will feature the designs sent in by members inspired by the Word-spiration. Send submissions in the form of drawings/photographs (300 ppi) to Diane at diaweimer@verizon.net with the subject: “wordspiration” along with a short description about how the word inspired the design.

Last Issue’s Wordspiration:

Decadence



2Roses, Necklace, sterling silver, Keum Bo
Mounted in custom leather bound case

MASSC Video Library Now Available on DVD

The MASSC video library currently has 19 videos on DVD of past workshops that members can check out. These DVDs are direct videotapes of actual workshops and have not been edited. Watching a MASSC workshop video is akin to being there in person.

Workshop Videos Include:

Pauline Warg - Carved Bezels
Jillian Moore - Resin in 3D
Sarah Doremus - Kinetic Jewelry
Charity Hall - The Brooch Approach
Demo Day 2011 - 5 demos
NC Black Micro-Shell Forming
Alison Antleman - Custom Clasps
Belle Brooke Barer - Sculptural Hollow Ring
Diane Falkenhagen - Mixed Media Techniques for Jewelry
Leslee Frumin - Classy Clasps
Mary Lee Hu - Weaving and Chains
Charles Lewton-Brain - Fold Forming
Betsy Manheimer - Fold Forming
Trish McAleer - Metal Corrugation
Bruce Metcalf - Jewelry Alternatives
Ben Neubauer - Wire Fabrication
Harold O' Connor - Surface Embellishments & Efficient Workshop Methods
Katherine Palochak - Tufa Casting
2Roses - Metal Patination
Carol Sivets - Metal Reticulation
Lisa Slovis Mandel - Hydraulic Press
Carl Stanley - Cuff Bracelet
Pauline Warg - Metal Beads
Wayne Werner - Stone Setting
Betty Helen Longhi - Forming Techniques
Jeanne Jerousek McAninch - Chain Making

A \$20 donation is necessary to check out each DVD. This includes the use of the DVD plus 2-way shipping. There is no additional security deposit. Members can keep each DVD for up to 30 days. Videos can be checked out on the MASSC website at www.massconline.com. Click the "Video Library" link on the home page.

Upcoming Workshop MARCH 2015 "Mechanical Playthings" with Gary Schott



Board Meetings:

Jan 18, Sunday, 10am-12pm

March 8, Sunday, 10am-12pm

Did you change your email? Don't miss your MASSC newsletter and workshop announcements. Send changes to Jan Reimer at rreimer@socal.rr.com



Belgian artist Wim Delvoye

MASSC Vision Statement

Shaping the future by preserving metal art heritage, discovering new methods while sharing our knowledge and resources.

MASSC Mission Statement

To educate the Community, inspiring and challenging those who seek excellence in jewelry and metal arts, while providing educational, visual material and experiential connections.