11th ANNUAL
FRANKLIN - STERLING

MINERAL EXHIBIT

OCT. 14th & 15, 1967

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FRANKLIN UNIQUE IN VARIETY OF ORES

The Town of Franklin's history is based mainly on the unique ore deposits which occur in this area. The only other locality in the mineral world, comparable to Franklin, is an area in Sweden.

Franklin has gained world-wide fame in respect to the large number of minerals that are to be found here. There are in excess of 194 different mineral specimens that have been identified; of these 26 are to be found nowhere else in the world.

The Franklin ore deposits were first discovered in the middle 1600's. These deposits continued to baffle the mining experts for the next two centuries because they were unlike any other known mineral deposits in the world. Its principle metals are zinc, manganese and iron. All three are present as a complex oxide in the mineral known as Franklinite (named in honor of Benjamin Franklin). Zinc is also here as a silicate, known as Willimite (so named in honor of William, King of England), and as an oxide known as Zinbite. Some veins contain all three of these minerals in a complex mixture while other veins consist of the three minerals in almost their pure form. The ore body is also quite unique in that it is relatively free from other heavy metals such as lead, cadmium and copper which are usually found in zinc ore deposits.

All attempts to get the Franklin orebody to yield its zinc were unsuccessful and it was not until 1852 that the first satisfactory method of smelting the ores was developed. Since that time, more modern methods of mining and milling have increased to the point where zinc and zinc products are used in almost every phase of modern manufacturing.

Franklin has in recent years become the mecca of the beginner and advanced rock collectors as well as mineralogist. The professional geologist also has a definite interest, in the diversification of minerals to be found in Franklin. Perhaps, one of the main factors of the popularity of Franklin with these rock-collectors is the fact that so many of these minerals are found on the surface of the ground, thus making it a simple matter for the collector to gather his specimens.

The Franklin Mineral Museum, Inc. is located on Evans Street. The Museum Building is of Fireproof construction, and is connected with the Mine Replica and Fluorescent display room. The building contains a lobby with sales facilities, off this are rest rooms, Curator's office, with its library of Franklin Literature and records, a laboratory and preparation room for the identification of minerals.
FRANKLIN UNIQUE IN VARIETY OF ORES

Ample parking is available on the property which overlooks the Upper Wallkill Valley and the noted Buckwheat Open Cut.

To date, a comprehensive collection of Franklin minerals and a large number of pamphlets and other publications, photographs, maps and the like have been received. A years membership card, cost $5.00, entitles the bearer to unlimited visiting privileges for one year.

Sponsors, Patrons & Donors will receive public recognition on a permanent scroll mounted in the Lobby.

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HUNT FOR NORBERGITE
# MINERALS OF THE FRANKLIN-Sterling AREA, 1966

<table>
<thead>
<tr>
<th>Albite</th>
<th>Aragonite</th>
<th>Bornite</th>
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</thead>
<tbody>
<tr>
<td>Allactite</td>
<td>Arsenic</td>
<td>Brandtite</td>
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<td>Arseniosiderite</td>
<td>Brookite</td>
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<td>Amphibole</td>
<td>Arsenolite</td>
<td>Bustamite</td>
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<tr>
<td>Actinolite</td>
<td>Arsenopyrite</td>
<td>Cahnite</td>
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<td>Aurichalcite</td>
<td>CalcioThomsonite</td>
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<td>Hornblende</td>
<td>Axinite</td>
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<td>Edenite</td>
<td>Ferroan</td>
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<td>Tremolite</td>
<td>Mangananoan</td>
<td>Celestite</td>
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<td>Analcime</td>
<td>Azurite</td>
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<td>Barite</td>
<td>Chabazite</td>
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<td>Barylite</td>
<td>Chalcocite</td>
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<tr>
<td>Anorthite</td>
<td>Barysulfite</td>
<td>Chalcophanite</td>
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<tr>
<td>Anorthoclase</td>
<td>Bementite</td>
<td>Chalcopyrite</td>
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<td>Anthophyllite</td>
<td>Biotite</td>
<td>Chlorite</td>
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<tr>
<td>Apatite</td>
<td>Birnessite</td>
<td>Chlorophyl, Nontronite</td>
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<tr>
<td>Apophyllite</td>
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</tbody>
</table>

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## MINERALS OF THE FRANKLIN-Sterling AREA, 1966

<table>
<thead>
<tr>
<th>Chlorophoenicite</th>
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<th>Hastingsite</th>
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<td>Hausmannite</td>
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<td>Friedelite</td>
<td>Hedyphane</td>
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<td>Clinohedrite</td>
<td>Gageite</td>
<td>Hematite</td>
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<tr>
<td>Copper</td>
<td>Gahnite</td>
<td>Hemimorphite( Calamine)</td>
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<tr>
<td>Corundum</td>
<td>Galena</td>
<td>Hendricksite</td>
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<td>Corellite</td>
<td>Ganophyllite</td>
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<td>Hydrohetaerolite</td>
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<td>Dioptase</td>
<td>Goethite (Limonite)</td>
<td>Hydrozincite</td>
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<tr>
<td>Dolomite</td>
<td>Gold</td>
<td>Idocrase (Vesuvianite)</td>
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<tr>
<td>Epidote</td>
<td>Graphite</td>
<td>Cyprine</td>
</tr>
<tr>
<td>Erythrite</td>
<td>Greenockite</td>
<td>Ilmenite</td>
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<td>Esperite</td>
<td>Gypsum</td>
<td>Johannsenite</td>
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<tr>
<td>(formerly Ca-Larsenite)</td>
<td>Halloysite, Zinalsite</td>
<td>Kaolinite</td>
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<tr>
<td>Ettringite</td>
<td>Hancockite</td>
<td>Ktlnahorite</td>
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<tr>
<td>Feitknechtite</td>
<td>Hardystonite</td>
<td>Larsenite</td>
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<tr>
<td>Fluoborite</td>
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</tbody>
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### MINERALS OF THE FRANKLIN-Sterling AREA, 1966

<table>
<thead>
<tr>
<th>Mineral Type</th>
<th>Mineral Name</th>
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<td>Damourite</td>
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<td>Nasonite</td>
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<td>Loseyite</td>
<td>Natrolite</td>
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<tr>
<td>Magnesium-chlorophoenicite</td>
<td>Neotocite</td>
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<td>Malachite</td>
<td>Oligoclase</td>
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<tr>
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<td>Orthoclase</td>
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<td>Pararammelsbergite</td>
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<td>Manganosite</td>
<td>Pectolite</td>
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<td>Manganpyrosmalite</td>
<td>Phlogopite</td>
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<td>Powellite</td>
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<td>Prehnite</td>
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<td>Microcline</td>
<td>Pyrochroite</td>
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<td>Molybdenite</td>
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<tr>
<td>Mooreite</td>
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<td>Augite (Jeffersonite)</td>
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<td>Diopside</td>
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<td>Hedenbergite</td>
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<td>Roweite</td>
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<td>Rutile</td>
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Scan courtesy of the Franklin-Ogdensburg Mineralogical Society, www.FOMSNJ.org
### MINERALS OF THE FRANKLIN-Sterling Area, 1966

<table>
<thead>
<tr>
<th>Mineral</th>
<th>Mineral</th>
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<td>Sarkinite</td>
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<td>Uraninite</td>
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<td>Spinel</td>
<td>Voltzite</td>
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<td>Vredenburgite</td>
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<td>Serpentine</td>
<td>Sussexite</td>
<td>Wollastonite</td>
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<td>Antigorite</td>
<td>Svbite</td>
<td>Woodruffite</td>
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<td>Vorhauserite</td>
<td>Talc</td>
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<td>Yeatmanite</td>
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<td>Sillimanite</td>
<td>Picrotephroite</td>
<td>Zincite</td>
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<tr>
<td>Silver</td>
<td>Thorite</td>
<td>Zircon</td>
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<td>Todorokite</td>
<td>Zoisite</td>
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<td>Torreyite</td>
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<td>Sphalerite</td>
<td>Tourmaline</td>
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<tr>
<td>Cleiophane</td>
<td>Dravite</td>
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<td>Marmatite</td>
<td>Schorl</td>
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</tbody>
</table>

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*Calciothomsonite—Blue
*Cerussite—Yellow
Clinohedrite—Orange
*Corundum—Red
Diopside—Blue

Esperite—Yellow
(Fluorite—Green)
Hardystonite—Purple
Hydrozincite—Blue
Margarosanite—Blue
Microcline—Blue-White
Nasonite—Blue
Norbergite—Cream
Pectolite—Orange

Phlogopite—Yellow
Powellite—Yellow
Scapolite—Blue
Scheelite—Yellow
*Smithsonite—Cream
*Sphalerite—Red & Blue
Svabite—Red
Tourmaline—Yellow
Tremolite—Blue
Willemite—Green & Yellow
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Scan courtesy of the Franklin-Ogdensburg Mineralogical Society, www.FOMSNJ.org
### COMMON MINERALS OF THE FRANKLIN MINERAL DUMP

<table>
<thead>
<tr>
<th>Amphibole</th>
<th>Goethite</th>
<th>Quartz</th>
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</thead>
<tbody>
<tr>
<td>Biotite</td>
<td>Graphite</td>
<td>Serpentine</td>
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<td>Hematite</td>
<td>Stilpnomelane</td>
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<td>Epidote</td>
<td>Microcline</td>
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<td>Franklinite</td>
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<tr>
<td>Garnet</td>
<td>Pyroxene</td>
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Collecting rocks, minerals and semi-precious stones has fast become one of our leading hobbies. More leisure time and a National highway system enabling people to travel farther afield has given great impetus to this growth. It has become an outdoor-indoor hobby and enjoyment for the entire family.

There is hardly a town in the West that doesn’t boast a Rock & Mineral Shop and a closely knit hobby fraternity of ‘Rockhounds’—which is only a friendly way of describing them in their eager and avid search for beautiful mineral specimens and gemstones.

Despite popular belief that gemstones are found in far off places, semi-precious stones in great abundance can be collected throughout our country particularly in our Western states from the borders of Canada on down through Mexico.

Amethyst, agate, carnelian, jade, rose quartz, topaz, etc., etc. It is doubtful whether there is a gem in the world that has not been found in this country—including diamonds, emeralds and sapphires. Small wonder this has become such a popular pastime.

Lapidary is the art of working in stones. Rough gem material is cut, shaped and polished with the use of power tools specifically made for this purpose. It takes good material and a skilled hand to bring one stone to polished perfection. Mechanized barrel tumbling of gemstones however can take many pounds of rough material and bring them to a high polish. Although these gemstones have no predetermined shape as in the lapidary art, these nugget shaped and baroque stones have great beauty and appeal and lend themselves quite readily to making gemstone jewelry. They are hard, durable and colorful.

Mechanical tumbling of gemstones has helped build this hobby considerably. New techniques have been perfected wherein many pounds of material placed in rotating drums turning slowly for hours on end can round off sharp corners and edges and finally bring the stones to a fine polish. This of course is not as simple as it sounds. There are several stages in tumbling stones. Rough silicon carbide grit is the primary cutting agent. A finer grit is then used and finally a polishing compound. This takes care and inspection.

The introduction of epoxy resin cement has aided greatly in stimulating interest in this hobby. It is the perfect adhesive for cementing these gemstones to jewelry parts—called FINDINGS. The following pages will attempt to instruct the reader in making gem jewelry. Hints and suggestions will be offered and procedures outlined to make your work easy. Once a few basic steps have been mastered, the rest is quite simple. A door will open to a fun-filled and relaxing hobby.
BEFORE GOING INTO THE ASSEMBLY OF JEWELRY, a few words concerning semi-precious gems would be in order. The precious gems are diamonds, emeralds, rubies and sapphires. They possess characteristics that make them so—hardness, beauty, rarity and durability. However, the gemstones grouped in a broad classification called semi-precious have many of the same properties. Topaz, beryl, amethyst, opal, alexandrite, aquamarine are just a few of these. One can see that the borderline between precious and semi-precious stones is very thin indeed and much overlapping occurs. A fine opal or topaz can be just as costly as some rubies and sapphires. More and more people every day are appreciating the beauty of semi-precious stones as information and knowledge becomes available to them.

A basic understanding of semi-precious gems would be most practical and a definite aid in making purchases. The quartz family group of gems and minerals are of particular importance. Agate, carnelian, opal, amethyst, rose quartz and many others are included in this area. Many fine books both elementary and advanced on this subject are easily available at your local bookshop or library. It is also possible that a club or mineral Society is already established in your vicinity. You can learn much from a group such as this. Not only is jewelry making part of their program but field trips and lectures as well.

THERE ARE TWO simple but important steps in making gemstone jewelry. The first is learning to cement bellcaps to stones so that they can be attached to the proper pieces—bracelets, pendants, earrings, etc. The second is learning to use these pieces correctly so that your finished jewelry will look and wear well. By this we mean your stones should be graded according to size, shape and color. They should be blended well and have an esthetic look that will give the wearer pleasure and satisfaction.

BELL CAPS ARE only used on stones that will hang or dangle from the jewelry piece. There are many other jewelry parts that can be used that does not require a bell cap. The stone is cemented directly to the piece. Either to a flat pad such as our pad bracelets or to a flat area or surface of the mounting. They may also be cupped shaped, scooped out and hollow sections such as our triangular earrings and cuff links. You can cement tiny stones to most any part of the jewelry findings. You can also cement stones to bola slides for lariat ties, cuff links, tie tacks, pendant mounts and many more.

WHEN A BELL CAPPED stone is being hung, a jump or connecting ring is needed. This forms the connection between your bell cap and the jewelry piece. Bell caps have a hole or loop at one end so that a ring can be connected and attached to your bracelet or other jewelry part. Bells are illustrated in our catalog and come in different sizes to fit all stones.

GOOD WORK HABITS are important. Keep your working area clean and neat and only the pieces you are working with at the moment should be close at hand. Keep your jewelry parts in small boxes and containers and your tools in a handy
rack near your work and always ready for use. Good tools are essential. A long pointed nose plier (smooth on the gripping surface) will be your main tool. A cutter and a tweezer will also be very important to your work. These are illustrated in our catalog. However, there are all sorts of handy tools and devices that can make your work easy and one does not have to restrict themself to just those three.

THE APPLICATION OF EPOXY RESIN CEMENT

For our purpose this cement is superior to any adhesive now on the market. It is especially applicable for bonding stones to jewelry parts. Although most epoxy kits are sold with full directions for their use, a few hints and suggestions may be helpful to you and make for better work habits.

MIX ONLY ENOUGH cement for about 1 hours use—epoxies start to harden in that time. Lay out all your work beforehand so no time is wasted looking for things during the work period. Keep your stones clean and free from oil and grease. This will insure better adhesion. Wash them in a mild detergent and rinse. Wipe dry with a soft towel.

A TOOTHPICK is an excellent aid in applying epoxy to bell caps and other small findings. Do not use too much epoxy. A little goes a long way and too much will get your work messy. Keep a cloth handy to wipe off excess cement. Do not overpower your stone with too large a bell cap. When in doubt, use a smaller size. Bell caps are soft and pliable. Before cementing, press cap onto stone firming them to shape of stone. Remove bell cap, apply cement and replace onto stone in same position as before. Keep them in an upright position so that slippage does not occur. You can place them in sand or use our new PROP-UP. This material is excellent for this purpose. It can be used over and over again and takes heat treatment nicely. It works like putty and is non-toxic. One main advantage is that you can firm your caps to the stone while it is embedded in the PROP-UP. THIS MAKES FOR LESS HANDLING OF YOUR STONE and will make your work easier.

After cementing stones, a period of 24 hours is recommended for drying. However, if stones are placed in an oven for about 25 to 30 minutes with a temperature of 225 to 250 degrees, they will be ready for use on cooling off. This is recommended by professionals and others who wish quick results. Heat treating also seems to attain a more stronger bond. A thin cookie tray is best to use for this purpose. EPOXY Cements are unusually strong. To attain a firm bond use care in mixing proper proportions from each tube. Keep the drops side by side so that they may be gauged correctly before mixing.

JUMP RINGS must bend easily yet be firm and strong. If a ring can be pulled away from its attached jewelry piece, a heavier ring is recommended. These are the connections between your stones and neckchains and bracelets.

WE WISH to suggest a simple device for opening and closing jump rings. Mount an ordinary wood screw into a small block of wood. Leave the shoulder and head of the screw exposed—about ¼inch. You can open and close rings easily with this...
tool. Keep opening of ring at 12 o’clock, grip ring with pointed plier at 3 o’clock. Insert ring into screw slot at 9 o’clock and twist gently. The ring will open quite easily in this way. Hook open ring into bell cap and jewelry chain and reverse procedure. If done correctly it will make a perfect closure. For larger and heavier rings, a bolt with a larger slot will serve nicely.

IT IS TO your advantage to use stones of good quality. The finished piece will look better and have more value. Good quality does not mean the finest stones available but stones that have good color and pattern and are free from surface cracks and pits. Many stones have inclusions and flow lines running through them. This does not mean that they are in any way defective. This is a natural characteristic of the stone and can be very interesting and attractive.

AS YOU MOUNT your capped stones to jewelry parts, you will find room for creative and unusual arrangements. You can blend stones in many different ways. Bracelets can be made in stones of all one kind or mixed with charms. Save your best and largest stones for your pendant pieces.

EARRINGS can be made in many ways. As dangles or flat pad button type. It is difficult to get stones in pairs. When purchasing stones be sure to pick out the pairs for earrings before making other pieces. STONES OF DIFFERENT sizes will lend themselves to different pieces of jewelry. Large stones for key chains, bola ties and pendants. Small stones for tie tacks, earrings and pad bracelets.

BRACELETS CAN BE made smaller by removing end ring, cutting links to size and replacing end ring. To make one larger, just add an extra ring on the end. TO MAKE A NECKCHAIN smaller is a bit more difficult because of the small size of the end ring. A little practice will make you proficient. A neckchain may have to be shortened quite often—especially for youngsters.

IF JEWELRY is being made for fun and pleasure, an evenings work can produce a dozen or more pieces to wear or use as gifts. If one is in the process of making jewelry for profit, it is amazing how quickly a line can be established of fine gemstone jewelry. It is entirely possible that one can start this as fun and end up with profit.

JEWELRY MAKING is also an enjoyable and relaxing hobby. Semi-precious gemstones, mountings and findings are available in great variety. With a little imagination there is no limit to the number of pieces one can make. ENJOY IT.
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