

# Buckeye Woodworkers and Woodturners

The Official Newsletter of the Buckeye  
Woodworkers and Woodturners

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**!!! Time & Day !!!**

# December Meeting

## 9:30 am

**The December meeting is on the 18<sup>th</sup> at 9:30 am. The meeting is at the old Hartville Kitchen at the corner of SR 619 and Market Street.**

### **The Big Auction**

This is the meeting of our annual auction. It is usually a big success due to the generosity of many of our members. Everyone that has tools and supplies that they no longer use is invited to bring them in and donate the proceedings to the club. Just about every one has something that they no longer have a use for but would be a treasure for someone else. So bring in your forgotten treasures and an ample supply of money to buy the treasures others bring in. There is usually a lot of wood of all types at these auctions. Please only bring items that you think others will want. Do not miss this fun event that is our biggest yearly fundraiser.

BUCKEYE WOODWORKERS

AND TURNERS

Nov. 20, 2004

The regular meeting of the BWT was called to order by V.Pres. Bruce Lance. He welcomed everyone to the meeting and asked any visitors to stand and identify themselves to the club. Seven visitors gave their names and identified their communities. A total of 45 members were present at the meeting.

Bruce Lance thanked the club members for helping to make the 314 Christmas ornaments that were used to decorate the tree that we donated to the Children's Hospital Christmas Tree Auction in Akron. The tree and lights were donated by Hartville Hardware and the club

members turned and scroll sawed the ornaments for the tree. Pres. Lance stated that the tree was decorated and then taken to Quaker Square to be put on display. He also stated that the method of transportation for the tree way by of truck rented at a tremendous discount from the Uhaul Corporation. Our club would like to thank them for their generosity in helping out at this time of year. The tree was on display and a price of \$900 was established. The tree had been sold during the first day of exhibition. It was purchased by an anonymous buyer, named "Donald Duck". The request to keep the buyer a secret, seemed to be the normal way in which trees were purchased at the auction. Again, the club wishes to thank all the members that contributed to this great community activity. It is hoped that we can participate again next year.

V. Pres. Lance indicated that approximately 50 people attended the demonstration by Lyle Jamieson last month. He demonstrated the ability to turn hollow vessels and also use of laser measurements to attain consistent wall thickness. Numerous club members have designed their own equipment from this demonstration.

Attention was given to Stuart Batty from England and his trip to NE Ohio. Bruce stated that he had visited North Coast and that he was willing to come to Tallmadge and visit with Bruce and other members of BWT. This was a tuition based meeting that was extremely helpful in explaining the technical aspects of woodturning. Marty Chapman who had attended the meeting in Tallmadge, stated that he was well worth seeing. He said that he was a real teacher and explained the aspects of "why" things occurred in turning. There was a no-hands on approach to this meeting....just all teaching concepts. George Raeder stated that Stuart Batty was "the best turner I have ever seen".

The December meeting will consist of our Annual BWT Auction. It is being held in Dec., due to the fact that Tom Nero, our auctioneer will be vacationing in the southern climates of Florida during the colder winter months. All members were asked to search their shops for older tools, wood, and equipment that they no longer need and are willing to donate to the auction. All proceeds of the auction will be put in the club treasury. Members are encouraged to sign up at the beginning of the meeting and acquire an auction number for the bidding process.

BWT shirts and T-shirts are available with the printed club logo. Members are to see Treasurer Lou Mineweaser for order blanks.

Marty Chapman inquired when the next club demo would be held at Hartville Hardware. Bruce informed him that there would be another club demo in Feb at the Hartville Tool Show. Members could begin to think about the projects that they wish to demonstrate at the show.

Dues are payable by Jan. 1, 2005 for the coming year. Any member that has not signed up will be taken off the mailing roster.

Gary Lansinger, AAW board member, stated that there will be an AAW / Overland Park, Kansas Symposium that will be coming on July 22 - 25, 2005. The title of the 19th Annual AAW Symposium will be called, "Learn to Turn". He stressed that members should contact the following email address for registration: [woodturner@qwest.net](mailto:woodturner@qwest.net) or use the web site, [www.woodturner.org](http://www.woodturner.org) for further information. Any member can contact AAW at 222 Landmark Center, 75 W. Fifth St.; St. Paul, Minn. 55102 or phone 1-651-484-9094 for registration and information. Gary also stressed that they will have a new program this year that members can bring in any 10 - 17 year old youth to the symposium for free. He also stressed that it would be a good idea for our club to entertain the thought of allowing youth to become members to our club and possibly to our demonstrations. A membership vote was taken and it passed unanimously.

Bruce Lance suggested that members look at the newly published book, called, "Beneath the Bark". The book shows the movement and direction that woodturning has taken in the past several years.

Bruce also thanked Ray Maar and his wife for the work that they did on providing food for the Lyle Jamieson demonstration. He also thanked Jim Thomas and his wife for providing and setting up the audio / visual equipment for the showing of photo slides.

Mr. Lance stated that he was at George Raeder's house recently and observed some of the finest displays of woodturning that he has ever seen. George, former President of North Coast Woodturners, indicated that the weekend of Nov. 20-21, he would be having a showing and sale of his woodturnings as well as his wife's ceramic art pieces. All members were invited to attend.

Election of officers will be held in Jan. for the 2005 club calendar. It was questioned whether the current presidency will last for a two year term.

We will need two officers to fill current positions of Pres. and V. Pres. Ray Maar agreed to take over as Newsletter Editor for the 2005 season.

Dave Hout mentioned that a new building is currently being built behind the Hartville Kitchen and it will become home to the Hartville Salad Dressing business. That move will mean that our current meeting place will be torn down in June. So it suggests that BWT will have to be looking for a new location to have our monthly meetings. He indicated that we should be thinking about this now so that we can make a smooth transition when the time comes in late spring. Members had some questions about whether HH would be building an educational unit near the store and our using those facilities. Dave responded by saying that plan is still in effect, but the bigger question is when it would occur. He suggested that it might be years away and we need something more concrete. HH would probably house our needs, but we would have to meet with the Miller family/owners and see what they would do for us. Another suggestion was for North Coast and BWT to join together to purchase some land and build a building for our clubs needs. It was determined that the economic costs would be prohibitive. Jim Arnett suggested that he will be the director of the Senior Citizens Center of Barberton and that he had some nice facilities in the old Barberton High School that might be available. Others suggested that most communities have an armory that might be available for our use. Bruce indicated that we have moved to many times and that most people like this area in which to meet. It would be hard to move to another area. It was suggested that our membership at BWT meetings is higher when we meet in Hartville than when we meet in any other location. It was observed that we had a membership group that lives in extreme eastern Ohio and also near Pittsburgh and that meeting any further west from Hartville, would add an additional hour to their driving time. A committee of Marty Chapman, chairman, Dave Hout, Gary Lansinger, and Bruce Lance would meet with the Miller family to see what could be worked out in the near future.

Don and Kim Mills indicated that they had a lot of trees to cut down and it would make good turning material for our club members. Any club member wishing to acquire this turning stock should contact Don at 330-819-3390 or 330-498-0392 for further information.

Show and Tell information was provided by several members. Hoby Horn showed his pierced hollow vessel as a follow up to the Lyle Jamieson demo. He also described his three piece candelabra with a

natural base. Ralph Kubel turned some small vases out of ironwood and then another piece out of cherry burl. He finished them with Danish oil, then wax and then buffed with a rag.

Jim Thomas and wife showed the club a vase that they completed as well as some Christmas ornaments and porch decorations.

They finished their work with Minwax Antique Oil Finish.

Bruce indicated that he had information on CA glue and the curing process. He offered these hints...CA glue has acid stabilizers that have been added so that it cures by reacting to moisture content in the piece and the air.....NOT by reaction to the absence of oxygen, as has been previously discussed. CA can be activated quicker if sprayed with water with a little baking soda added.

CA must be stored in a cool dry location.

Due to the failing health of Don Karr's wife, Marty Chapman has taken over as the library assistant. He suggested that an inventory of all library materials be made in the coming months.

The treasurer informed us that \$54 was collected by the club raffle and \$29.75 collected in the coffee and donut donations.

A special raffle was issued for a woodturning class to be held in North Carolina. Dave Hout, an instructor for the John C. Campbell Folk School in Brasstown, North Carolina, has donated a week's tuition, room and board, to the school. Any member that desired could make a donation of \$10 to the raffle and a winner was selected. The winner was Phil Brower. Congratulations to winning a great week of woodturning.

The next monthly meeting will be held on Dec. 18, 2004

Metal Spinning by Dave Hout.....

Dave started the club demo by providing some past history of turning, both wood and metal. He indicated that woodturning began about 3500 years ago while metal spinning began about 4000 years ago with the Egyptians. The idea being that woodturning began later, after metal tools became available to cut the wood. Metal spinning came to America in the 1840's. There are metal spinning shops in most

communities, however they are not advertised. Most metal spinners are of the opinion that they have an exclusive technique and are somewhat reluctant to share their knowledge. This concept is a carryover from the days of the guild system in the middle ages when family secrets were never shared with the outside world, but kept within the shop of family. This continued until John Jacob Holtzapffel explored the process and then wrote books about it in order to share his knowledge. Today, there are many items that are made by the metal spinning process. Examples would be the circular light reflectors used on shop lamps, some auto parts, 8 foot TV satellite dishes, cymbals for percussion instruments, and even pots and pans for kitchen cooking.

To start with, Dave explained that one would use a metal disc that are usually around 50/1000 thickness. He uses aluminum, copper, pewter, and also brass. Aluminum discs cost about \$1 while pewter discs run about \$5 per piece. He indicated that metal reacts to force and not heat. If you work the metal to much, it will become very brittle and hard and therefore possibly crack and break. This is called work-hardening. Aluminum will work-harden the least, then next would be copper, and finally brass. Pewter has a characteristic that will not allow it to work-harden. Pewter is made up of about 90% tin, considered a semi-precious metal, 8% antimony and the rest are trace elements. Prior to the 1900's, pewter had high contents of lead, which reacted to acidic foods, like tomatoes. This reaction resulted in lead poisoning over many years of use. Usually this only impacted the wealthy citizens, since they were the only ones who could afford the finer dishes. The poor people were relegated to using wooden bowls for their daily needs and therefore not impacted by this problem.

To begin, the lathe must be checked to make sure that the center points of the head stock and tail stock all line up correctly. Any inaccuracy here will cause the metal disc to work its way out of the wooden mold or shaped design. You will need a wooden form in order to spin the metal over and a wooden tail stock plug to cover the tail stock point. This tail stock point should fit snug against the live center of the tail stock bearing. The tool rest is a flat bar with two pins to act as a fulcrum on which to rest the tools. The pins have holes inserted into the bar stock tool rest about an inch apart. The tools consist of a wooden stick, more technically described as a "shovel handle" that is about 18 inches long and 1 1/2 inches in diameter. Both ends have wedge shaped designs in order to get into the tight location behind the spinning metal. This tool is

initially used to gently force the spinning metal disc into a concentric spinning motion and correct any imbalanced position. The other tool is a metal shaft of about 1 inch diameter and the end is flattened to a shiny smooth bulbous geometric shape. This metal rod has a wooden handle that make the overall tool about 36 inches long. It is of that length so that the metal worker can get leverage against the fulcrum to push on the metal. The process is to use pressure against the tool rest pins. The wooden tool is used behind the spinning metal and the metal rod is used on the top. Both tools are used at the same time to work the metal in a back and forth motion. The purpose with that procedure is to prevent the metal from "pushing" itself to the end of the piece and thereby having thinner parts at the lower end of the vessel and more metal at the outer rim. German Brown Soap is used as a lubricant on the metal disc. It is a vegetable oil based substance that is considered food safe. This is the best spinning lube available.

The actual process is as follows...the wood form is attached to the head stock with the use of a faceplate. The wider part of the form is toward the head stock or left side of the lathe bed. The metal disc is then placed between the bottom of the wood form and the plug on the tail stock. It has a loose fit so that adjustments can be made to the out of round disc with the wood tool, as described above. Then the tail stock is tightened and both tools are touched to the spinning disc. Approximately 20 sec. to 40 sec. is all that is needed to spin the final shape. When finished, you should trim the upper edge of the bowl. A groove in the wooden tool is used to fold over the edge to make a rim with the help of the metal tool to start the process. The lathe speed is running around 1000 to 1200 rpm. This is about the same speed that is used for a wood bowl blank of about 6 inches in diameter. Woodturners calculate the speed of the lathe by no. of revolutions X the diameter of the blank to equal between 6000 start number to 9000 finish no. All tools are used under the center line of the lathe to get good leverage. Scotch Brite pads can be used to polish the piece. Move through the grits from green, red, gray, and to finally white to get the high polish. One could also use the Beall system for polishing....which is starting with brown tripoli, then white diamond and finally red rouge for a high polish.

Thanks Dave for a great demo.....

Respectfully submitted

Jerry Schaible, Sec.

## **Library Books!!!**

Would everyone please check around to see if they have any of Buckeye's books at home. There is an inventory of the books going on and it will only be complete when we know what books are still out.

## **The 2005 Symposium of the AAW**

The 19th Annual National AAW Symposium

Date: July 22-24, 2005

Location: Overland Park Convention Center, Overland\_Park, Kansas

(A suburb of Kansas City, Kansas)

For Sale!

Dave Hout an air cleaner that hangs from the ceiling. It is a large commercial unit that sells for about \$900.00 new and will sell for \$350.00.

Nametags

We have located a source for nametags (thanks to Mike Weinberg of Pelican Graphics). If you would like to order a name tag, please see Lou Mineweaser. Cost is \$4.00 payable on delivery.

General 260 lath for sale 20 inch swing two variable drives the one that came with it and a electronic control also has a 12 inch extension that can be used on either end 2000.00 dollars or best reasonable offer.

6" slow speed Baldor grinder - \$100.00

Bruce 330-633-9622

The following is a list of books and periodicals that are located in the BWT Library of Woodworking and Turning.

-----**Woodturning Books:**-----

- Carving on Turning 1995 Chris Pye 166 pages
- Turning Green Wood 2001 Michael O'Donnell 135 pages
- Victorian Woodturning and Woodworking 1995 137 p.
- Useful Woodturning Projects 1995 Woodturning Magazine 121 p.
- Turning For Furniture 1996 Ernie Conover 136 p.
- The Practice of Woodturning 1987 Mike Darlow 366 p.
- Turning Bowls 2000 Ernie Conover 152 p.
- Craftsman Woodturner 1971 Peter Child 238 p.
- Woodturning 1986 Klaus Pracht 224 p.
- Practical Woodturner 1979 F. Pain 166 p.
- Turning Wood 1985 Richard Raffan 164 p.
- Beneath the Bark 2004 Dale Nish 139 p.
- Practical Tips for Turners and Carvers 1995 Guild of Master Craftsman 67 p.
- Master Woodturners 1985 Dale Nish 215 p.

-----**General Carpentry and Woodworking**-----

- Fundamentals of Carpentry 1967 Walter Durbahn 407p.
- Make Your Woodworking Pay For Itself 1992 Jack Neff 118 p.
- Fine Woodworking Techniques No. 1 1978 Taunton Press 188 p.
- Fine Woodworking Techniques No. 2 1981 Taunton Press 198 p.
- Fine Woodworking Techniques No. 3 1981 Taunton Press 220 p.
- Woodworking Techniques, Tips and Shortcuts 1994 American Woodworker 104 p.
- Woodworking--The Right Technique 1996 Bob Moran 311p.
- Carpentry 1999 Larry Haun 200p.
- Carpentry and Woodworking 1984 Dick Demske 160 p.
- The Encyclopaedia of Woodworking 2001 Mark Ramaz 512p.
- How to Sharpen Every Blade in Your Shop 1994 Don Gary 133 p.
- Wood Joiners Handbook 1990 Sam Allen 253 p.

Drafting Workbook 1980 Walter Brown 151 p.  
Setting Up Your Own Woodworking Shop 1993 Bill Stankus 224p.  
Woodworking Handbook 1984 Arco Publishing 216 p.  
More Shop Drawings for Craftsman Furniture 2002 Robert Lang 144 p.  
Understanding Wood 1980 Bruce Hoadley 256 p.  
Joining Tools and Techniques 1979 Tage Frid 210 p.  
Home Workshop Planner Gene Schnaser 189 p.  
Woodworking Wisdom 1983 Rosario Capotosto 358p.  
Woodworking for Industry 1963 John Fierer 672 p.  
Woodworkers Source Book 1993 Charles Self 160 p.  
Woodworking Handbook 1990 Roger Cliffe 486 p.  
Woodworking Green Wood with PEG 1980 Patrick Spielman 120 p.  
Joining Wood 1992 Nick Engler 124 p.

-----**Tools and Equipment**-----

The Table Saw Book 1993 Kelly Mehler 179 p.  
Table Saw Techniques 1984 Roger Cliffe 352 p.  
Table Saw Basics 1991 Roger Cliffe 128 p.  
Tools and How To Use Them 1978 Albert Jackson and David Day 352 p.  
The Bandsaw Book With 20 Projects 1989 R. J. De Cristoforo 296 p.  
Biscuit Joiner Handbook 1989 Hugh Foster 192 p.  
Custom Tools for Woodworkers 1990 J. Petrovich 226 p.  
Portable Circular Sawing Machine Techniques Roger Cliffe 352 p.  
Art of the Bandsaw 2001 Mark Duginske 144 p.  
Mastering Woodworking Machines 1992 Mark Duginske 245 p.  
Scroll Saw Segmentation 2000 Patrick Spielman 128 p.  
Bandsaw Handbook 1989 Mark Duginske 319 p.  
Dust Collection Basics 1991 Woodstock International 44 p.  
Bandsaw Basics 1990 Mark Duginske 127 p.  
Bandsaw 1999 Mark Duginske 160 p.

Making and Mastering Wood Planes 2000 David Finck 192 p.

Scroll Saw Basics 1991 Patrick Spielman 128 p.

Restoring Woodworking Tools 1989 Michael Dunbar 256 p.

Using Power Tools 1997 Readers Digest 191 p.

Troubleshooting Power Tools 1990 Homer Davidson 243 p.

Shaper Handbook 1990 Cliffe and Holtz 255 p.

-----Carving and Woodburning:-----

Complete Guide to Woodcarvings 1984 E. Tangerman 352 p.

Gamebird Carving 1972 Bruce Burk 289 p.

Basic Woodburning 1994 Sue Waters 64 p.

-----Jigs and Shop Aids-----

Making Woodworking Aids and Devices 1985 Robert Wearing 223p.

Workshop Accessories You Can Make 1993 Edward Baldwin 211p.

Shop Tips 1994 Rodale Woodworking 297 p.

200 Original Shop Aids and Jigs 1983 Rosario Capotosto 358p.

150 Essential Jigs 1998 V.J. Taylor 183 p.

Ingenious Shop Aids and Jigs 1993 Graham McCulloch 219 p.

Woodshop Jigs and Fixtures 1994 Sandor Nagyszalanczy 229 p.

Workshop Shortcuts 1994 Graham McCulloch 224 p.

----- **Gluing and Finishing**-----

Do It Yourself's Guide to Furniture Repair and Refinishing 1977 Percy W. Blandford 321p.

Staining and Wood Polishing 1984 Charles Hayward 214 p.

Wood Finishing and Refinishing 1981 Hall and Heard 195 p.

Gluing and Clamping 1986 Patrick Spielman 256p.

Gunstock Finishing 1980 Donald Newell 475p.

Shaping, Veneering, and Finishing 1981 Tage Frid 210 p.

Wood Finishing 1988 George Frank 144 p.

Adhesives and Glues 1950 Robert Miller 186 p.

Great Wood Finishes 2000 Jeff Jewitt 234 p.

-----Projects and Plans-----

Bird Feeder Book 1993 Thom Boswell 144 p.

Childrens Toys and Furniture 1983 Monte Burch 160 p.

Making Built - In Cabinets 1992 Nick Engler 124 p.

Built-In Projects For the Home 1993 Black and Decker 128 p.

Woodworking Techniques and Projects 1982 Rosario Capotosto 401 p.

Index Guide to Woodworking Plans and Techniques 1999 William Mikus 466 p.

Kitchens 1994 Time Life Books 128 p.

Cabinetry Basics 1991 Sam Allen 128 p.

Building Masterpiece Miniatures 1979 Joseph Daniele 352 p.

Treasury of Woodworking Projects 1985 Science and Mechanics 216 p.

Shelves, Closets, and Cabinets 1977 Peter Jones 304 p.

Decks, Porches, and Patios 1981 Time Life Books 128 p.

The Weekend Woodworking Annual 1991 232 p.

Making Toys in Wood 1963 Charles Howard 158p.

New Wood Puzzle Design 2001 James Folette 95 p.

Wood Projects For the Home 1980 Ortho Books 96 p.

Making Wood Signs 1980 Patrick Spielman 140 p.

Butcher Block Projects 1987 Creative Press 158 p.

Country Classics 1991 Gloria Soberin 166 p.

From One Sheet of Plywood 1987 John Reid 128 p.

Making Mechanical Marvels in Wood 1991 Raymond Levy 192 p.

24 Router Projects 1987 Percy Blandford 120 p.

Encyclopaedia of Woodworking Patterns 1990 160 p.

101 Projects for Woodworking 1981 Woodworkers Journal 243 p.

Southwestern Country Classics 1993 Gloria Sabrin 153 p.

Stanley No. 6...Toy Patterns P-1 Stanley Tools

Woodworking Projects No. 2 1988 Shopsmith 180 p.

Woodworking Projects No. 3 1988 Shopsmith 96 p.

Woodworking Projects No. 4 1988 Shopsmith 96 p.

Woodworking Projects 1987 Popular Science 182 p.

Weekend Woodworking 101 Projects 1990 John Nelson 292 p.

Country Mailboxes 1993 Patrick Spielman and Meisel 160 p.

Woodworking Projects 1983 WorkBench Magazine 268 p.

Woodworking Projects 1970 Sunset Books 96 p.

Wood Identification Manual 1990 University of Tennessee 106 p.

-----**Furniture**-----

Furniture Makers Handbook 1977 Family Handymans Magazine 277 p.

Pennsylvania Dutch Furniture 1980 John Shey 226p.

Shaker Furniture 1964 Andrews and Andrews 133p.

Encyclopaedia of Furniture Making 1987 Ernest Joyce 519 p.

Making Rustic Furniture 1992 Daniel Mack 160 p.

Rustic Furniture Workshop 1999 Daniel Mack 109 p.

Making Work Benches 1995 Sam Allen 158 p.

Shop Drawings For Craftsman Furniture 2001 Robert Lang 144p.

Furniture Lovers Book...Finding, Fixing, and Finishing. 1997 Donald Meyers 239 p.

Furniture of Pine, Poplar, and Maple 1966 Franklin Gottshall 110 p.

Designer Furniture 1986 Richard Entwistle 160 p.

Shelves, Closets, and Cabinets 1987 Peter Jones 304 p.

Advanced Woodworking and Furniture Making 1972 Gilbert Hutchings 512 p.

-----**VHS VIDEOS**-----

**These American Workshop videos were donated by the Woodcraft Store in Bedford, Ohio:**

Shaker Inspired Hall Table

Chippendale Tall Clock Case

Amish Salt Box

Amish Hardwood Floors and Moldings

Kitchen Bins and Welsh Love Spoons

Butcher Block Kitchen Island

Spanish Cedar Humidor

The Treaty Desk

Victorian Beveled Mirror Hall Tree

Sculpted Coffee Table

Built-In Bookcases and Historic Mantles

-----Other library videos are as follows:-----

Kelton Hollower Kelton Industries

Building Tables 1985

McKnaughton Hollowing System

Natural Edge Bowls / Reverse Turning / Ornaments

Dale Nish 2002 Symposium on Natural Edge Bowls / Reverse Turnings / Ornaments

Starting Woodturning by Robert Sorby

Dovetails With a Router by Dave Hout / Hartville Tool

Router Basics by Dave Hout / Hartville Tool

Woodworking Profile of Sam Maloof

AAW ---Who We Are and What We Offer 2002

Basic Carpentry Home Improvement Series

Threaded Acrylic Boxes / Tops / Chatterwork

Repairing Furniture by Bob Flexner

AAW Symposium 1994

Soren Berger ....Hudson High Symposium...2002

-----**CD Library**-----

Plans for Projects

Wood Plans 2000

Ornamental Turning Companion

-----**Magazines and Periodicals**-----

American Woodturner.....Vol. 1-1 to Vol 17-3 1986 to Fall 2002

Woodturning Design.....3 issues Spring 2004 to Fall 2004

Woodturning .....10 issues Autumn 1990 to April 1997 [some issues missing]

Today's Woodworker ..... 30 issues -- Jan 1989 to May 1998 [ some issues missing]

Weekend Woodworking Projects ..... 18 issues -- May 1988 to March 1991 [some issues missing]

Woodwork .....5 issues Spring 1989 to Fall 1990 [some issues missing]

Hands On .....13 issues May 1982 to Dec. 1988 [some issues missing]

Woodworkers Journal.....43 issues March 1984 to July 1991 [some issues missing]

Fine Woodworking ..... August 1979 to Dec. 1994 [ issues missing are 1-16, 26, 29, 38, 55,105]

Wood Magazine.....46 issues 1984 to 1996 [some issues missing]

American Woodworker.....43 issues 1988 to 1995 [some issues missing]

Woodsmith.....51 issues August 1983 to Dec. 1991 [ none missing]

Shop Notes .....12 issues issues 24 to 37 [some issues missing]

