



# TWA Newsletter

Next Meeting: Tuesday, November 17, 7:00 pm

Location: Zoom videoconference; use the link,  
meeting ID and password below to join.

[https://us02web.zoom.us/j/83004038142?  
pwd=Ri9udUpqMDdheEUyYk5adVkyQTNSdz09](https://us02web.zoom.us/j/83004038142?pwd=Ri9udUpqMDdheEUyYk5adVkyQTNSdz09)

Meeting ID: 830 0403 8142

Password: 591107

Speaker: Roland Johnson

## Topic: Introduction to the Shaper Origin

Roland Johnson describes his start in woodworking as “a bit inauspicious”—he built an 8-ft. racing boat at the tender age of 14 and it sank the first two times he put it in the water. His woodworking has since advanced, and he’s now turned to teaching as a way of paying his hard-earned knowledge forward. A contributing editor to *Fine Woodworking* magazine, he recently completed a series of online video classes for Taunton Workshops, available at [tauntonworkshops.com](http://tauntonworkshops.com). He is also a featured presenter with The Woodworking Shows.

Almost two years ago at the Baltimore Woodworking Show (2018) the folks from Shaper brought their new handheld CNC router, the Origin, for a one-show unveiling. Rollie was awe-struck by its capabilities and could hardly wait to get his hands on one to see if the machine could really be an asset in a real-world shop. It is. In spades! And a person doesn’t have to learn CAD to operate one!

This presentation is designed to introduce folks to the capabilities of the Origin and the basic operation of the machine. With its ability to work on virtually any size piece and its ease of programming, the Origin is an ideal shop companion for anyone who needs to perform very precise joinery, inlay, or accurate repetitive parts production.

Host: Mark Firley

## INSIDE THIS ISSUE

November meeting .....	1
October meeting minutes .....	2
TWA membership cards .....	4
Membership committee .....	4
Treasurer’s report .....	4
Mentors .....	4
Upcoming meetings .....	5
President’s message .....	5
Board and committee members .....	6
Sponsors .....	7



## TWA GENERAL MEMBERSHIP MEETING—OCTOBER 20, 2020

*(meeting minutes: James Sapp)*

Roy Brookhart opened the general meeting conducted using Zoom virtual technology. There were 39 members in attendance. One guest, Frank Fee, joined the meeting.

Klingspor is have a weeklong extravaganza at each of their stores. At the Cary store, TWA will have a spot from 10AM to 3PM. Roy and Joe Sabo will be there and are looking for a couple more members to help out. Contact Roy if you are interested.

Joe Sabo reminded Toys for Tots work leaders that they will need to make a reservation with the Marine Corps to deliver their toys. Toys need to be delivered by the first week in December but may be delivered at

any time, if they are ready. Joe reported that the materials for the VW cars were delivered to 10 volunteers for completion. Three sets have been finished to date.

To conclude this year's shop crawl series, Frank Empie showed his 18' by 24', timber frame shop. The wood used in building the shop came from Frank's property that he cut and milled. Of particular note, Frank showed his recently completed hickory workbench that he is very pleased with. Electrical service came from his house to a new subpanel in the shop. He has both 110v and 220v service drops to his equipment.

The number of people attending the meeting was 39, the highest it has

been since the beginning of virtual meetings. Roy continues to urge members to help those who might need assistance in setting up and using Zoom to attend meetings. Members are reminded that they can share wood project pictures on the web site. Contact Paul Holzworth to post the pictures.

Joe Sabo has a Rigid band saw for sale. Contact Joe if interested.

The next meeting is November 17th. The featured presenter will be Roland (Rollie) Johnson, who has published many articles in Fine Woodworking magazine. He will be discussing and demonstrating the Shaper Origin hand-held CNC router.

## WOODWORKING APPLICATIONS AND ROUTERS — JIM HEAVEY

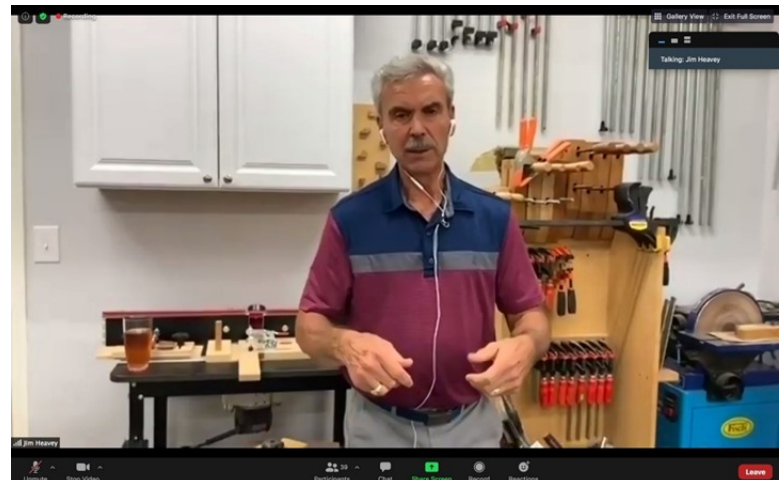
*(meeting minutes: James Sapp)*

The featured speaker for the meeting was Jim Heavy. As a craftsman and educator for WOOD Magazine since 1996, Jim has had projects and articles featured in the magazine and has designed and presented educational programs nationally. He represents WOOD Magazine as a spokesman and presenter at The Woodworking Shows as well as an educator at WOOD Magazine's Weekend With WOOD. Jim is also an instructor for Craftsy, an online educational provider. Jim has taught both individual and group woodworking classes at his shop and throughout the country. His main joy is producing furniture for his family.

Jim's presentation started with a description of types of routers and their sizes. Starting with trim routers that typically have a 1 HP motor, they can do many jobs that

the larger routers perform. These smaller routers only come with a 1/4-inch collet as they are not meant for large router bits. The mid-range power routers typically have a 2 to 2 1/4 HP motor and can have fixed or plunge bases that can be interchanged. Most come with variable speed motors ranging from 8000 to 25000 rpm. Lower speeds are used with larger bits to keep the tip speed consistent with their intended use. These mid-size routers are the

recommended size for most woodworkers. The largest routers have 3 to 3 1/2 HP motors, are heavy to handle and are better suited for a router table. Many routers have a soft-start feature that aids in control and puts less stress on the router motor and bearings. Collets come in 1/4 and 1/2 inch sizes.



*Jim discusses routers from his shop (photo: Mark Firley)*

## WOODWORKING APPLICATIONS AND ROUTERS — JIM HEAVEY (CONTINUED)

*(meeting minutes: James Sapp)*

For mid-sized routers, Jim recommends using 1/2 inch diameter router bits. Despite their somewhat higher cost, Jim recommends buying router bits from companies who produce higher quality bits. There are six basic router bit styles: straight, rabbeting, chamfer, round over, cove and pattern bits. Another versatile bit is the Roman ogee bit that can produce 6 different profiles. Straight bits come with different cutting-edge configurations such as shear cutting or spiral in upcutting and downcutting modes. Routers can be outfitted with guide bushings that are useful in routing with templates. The guide bushing design can vary according to the brand of router. Jim recommends to users of Porter Cable guides to add an O-ring to prevent the knurled nut from coming loose during routing operations.

Jim offered several tips in using routers. Don't overtighten router collets when installing bits. Also, make sure there is a gap, about 1/8", between the collet and the base of the router bit. Using a 1/2 or 3/4 inch O-ring on the router bit shaft can help maintain the gap. Use the variable speed control of the router as the bit size changes. Larger bits require slower speeds to keep the velocity at the tip at intended cutting rate. Feed speed is important to the quality of cut; too fast will bog down the router giving poor cuts; too slow can result in burning of the wood, especially in maple and cherry.

Hand-held routing is performed from left to right because the bit is turning clockwise. Router table operations are performed from right to left as the router is

inverted and the bit is observed from above the table to be turning counter-clockwise. Performing routing in the opposite direction is called climb cutting. This method can be dangerous as the router will likely abruptly travel in the direction of the climb cut when hand-held or the material being routed on router table can be kicked back at the user. Sometimes, climb cutting is unavoidable especially when the grain direction of wood will lead to chip out when routing in the recommended direction. In these cases, when climb cutting take very light passes and then make the final pass in the proper cutting direction.

Burning can occur for a number of reasons such as too slow a feed rate, dull bits and too high a bit speed rate, and this occurs more often in maple and cherry. For situations where burning has occurred, Jim recommends dabbing the burned area with a Q-tip moistened with water and then using the router bit as a scraper to remove the burn blemish.

Jim shared some of the router jigs he uses frequently. They included a dado jig using a pattern bit, a trammel jig, a mortising jig using a 3/4" guide bushing, a coping jig for the router table and a small parts jig for the router table.

After his presentation, Jim showed us around his shop.



*Jim discusses router bits and jigs (photos: Mark Firley)*

## TWA MEMBERSHIP CARDS

If anyone needs a current TWA membership card, send a request by email to Ken.Serdar@gmail.com to receive a PDF file that you can print or keep on your smartphone.

*Ken Serdar*

## MEMBERSHIP COMMITTEE

TWA is happy to welcome the following new member:

- Frank Fee

*Ken Serdar, Membership Committee*

## NEWSLETTER CONTRIBUTIONS

Please send newsletter content for future newsletters to Fred Ford (fredford22@gmail.com) or Karin Pihel (karin.pihel@gmail.com).

Contributions for each newsletter are due by the last day of the previous month.

## TREASURER'S REPORT (SEPTEMBER)

Beginning Balance: \$8,691.68

Income: \$480.00

Expense: \$222.93

Ending Balance: \$8,948.75

Does not include Petty Cash of \$86.00

*Submitted by Jack Kite, Treasurer*

## MENTORS

<b>Mentor</b>	<b>Service/Skill Offered</b>	<b>Phone Number</b>	<b>Email Address</b>
Bernie Bogdon	Relief Carving	(919) 850-0739	sabile_27615@yahoo.com
Hugh Fish	Chairs, Joinery, Machinery & Power Tools, Mantles, Routers, Tables and TV Cabinets, Turning	(919) 467-5696	hughpatfish@yahoo.com
John Margeson	Baby Furniture, Beds, Bookcase, Chairs, Chest, Decks, Tables	(919) 876-3476	jmalice@bellsouth.net
Mike Resar	Baby furniture, Beds, Bookcase, Cabinets, Chest, Drafting, Dressers, Tables, TV Cabinets	(919) 876-1664	atwaterla@ncleg.net
Allen Campbell	Simple inlay, Staining/dyeing, Pen turning, Cabriole legs	(919) 772-4551	aacjr@nc.rr.com
Cecil Raynor	Joinery, Finishing, Tables, Chairs	(919) 815-9155	cecil_raynor@yahoo.com
Amy Dowden James Sapp	Google SketchUp	(919) 932-6252 (919) 586-7280	amydowden1@gmail.com james.b.sapp@gmail.com
Ken Serdar	CNC woodworking		ken.serdar@gmail.com

## UPCOMING MEETING

**Meeting Topic:** Toys for Tots, 35th Year (Zoom meeting)

**Date:** Tuesday, December 15

Please join us at our December General Meeting for our 35th year of making a lot of children happy. Again this year we have projected toys to get us past the 4000 toy mark. I think that it is remarkable that we could do this with a worldwide pandemic going on all over. A great deal of ingenuity has been applied to keeping people safe. We have 16 workshops participating with 51 members in support of these workshops.

The program will consist of each of the 16 workshop hosts, or their representative, doing a Show and Tell. They will be including interesting points about the design process, their assembly process, and other activities that were necessary as a result of the Corona Virus. Each host will show a toy that resulted from their workshop.

*Workshop Hosts:* Bob Gabor, Cecil Raynor, Terry Tenhouse, Roy Brookhart, Jim Rhodes, Joe Sabo-Klingspor, Pete Hodges, Mark Firley, Judy Sanwald and Hugh Fish, Bob Guenther, Les Hall, Bill Burton, Bob Andrews, Ken Serdar, Joe Sabo, Alex Knittel, Tom Hegele

*Fred Ford*

*Chairman TWA Toys for Tots Committee*

## PRESIDENT'S MESSAGE

In a year that is full of things that we might like to forget, I hope we continue to remember and support our association's sponsors. From wood for Toys for Tots, a place to hold our monthly meetings, discounts on wood and supplies, and promotions of our club, our sponsors continue to help us to keep up our love of woodworking. When you stop in to pick up some supplies or to grab a holiday special or two, please remember to thank them for what they do for us.

*Roy Brookhart*

# BOARD AND COMMITTEE MEMBERS

## POSITION

President  
Vice President  
Secretary  
Treasurer  
At Large Board Member  
At-Large Board Member  
At-Large Board Member

## BOARD MEMBER

Roy Brookhart  
Mark Firley  
James Sapp  
Jack Kite  
Leon Harkins  
Dick Raup  
Joe Sabo

## COMMITTEE

Program Committee  
  
Toys-for-Tots Committee  
  
Nominating Committee  
Newsletter Publications Committee  
Library Committee  
Publicity Committee  
Sponsor Committee  
Internet  
Mentor Committee  
Membership Committee  
Audio/Visual Committee  
Photographer  
Hospitality  
Facilities/Refreshments Committee  
Raffle Committee  
TWA Duties and Responsibilities Editor

## CHAIRPERSON / MEMBERS

Mark Firley - Judy Sanwald, Fred Ford, Terry Tenhouse, Allen Campbell, Jeff Leimberger, Terry Brown, Hal Brown, Mike Payst, Bob Nauman, Bob Andrews, Jerry Rhoades  
  
Fred Ford/Cecil Raynor — Pete Hodges, Bob Gabor, Terry Tenhouse, Hugh Fish and Judy Sanwald, Jim Rhodes, Mark Firley, Les Hall, Joe Sabo, Alex Knittel, Bill Burton, Bob Guenther; Bob Andrews, Ken Serdar, Roy Brookhart, Tom Hegele  
  
Fred Ford  
Karin Pihel — Fred Ford  
Jerry Rhoades  
Roy Brookhart  
OPEN  
Paul Holzworth  
Allen Campbell  
Ken Serdar - Cheryl Serdar, Judy Sanwald, Paul Holzworth, Sue Bunch  
Tom Revelle - Leon Abbas, James Chamberlain  
Mark Firley  
OPEN  
OPEN  
Mike Payst  
Fred Ford

# TWA SPONSORS

## **Ashcroft Saws and Tools**

919-876-3223  
3125 Gresham Lake Rd. Unit 116  
Raleigh, NC 27615  
[www.ashcroftsaw.com](http://www.ashcroftsaw.com)  
*25% off list on blades and 10% off on sharpening*

## **Capitol City Lumber Co.**

919-832-6492  
4216 Beryl Rd.  
Raleigh, NC  
1-800-244-6492  
[www.capitolcitylumber.com](http://www.capitolcitylumber.com)  
*Special prices to TWA members*

## **Edwards Mountain Woodworks**

919-932-6050, evenings  
Fine handtool woodworking: creating and teaching in wood. For further information on the workshops, schedule, and tools needed and any other requirements email Bill Anderson at:  
[bill@edwardsmountainwoodworks.com](mailto:bill@edwardsmountainwoodworks.com)  
[www.edwardsmountainwoodworks.com](http://www.edwardsmountainwoodworks.com)  
*Tuition discount for club members.*

## **The Hardwood Store**

1-888-445-7335  
Gibsonville, NC  
1-888-445-7335  
[www.hardwoodstore.com](http://www.hardwoodstore.com)  
*Discount: 10 cents per board foot*

## **Guy C. Lee Building Materials**

900 N. Salem St.  
Apex, NC

## **Keglers Woodworks LLC**

919-608-7220  
330 Dupont Circle  
Raleigh NC 27603  
[mkeglers@earthlink.net](mailto:mkeglers@earthlink.net)

## **Stock Building Company**

919-828-7471  
3000 Yonkers Rd.  
Raleigh, NC  
[www.stocksupply.com](http://www.stocksupply.com)

## **Klingspor's Woodworking Shop**

919-876-0707  
MacGregor Village Shopping Center  
107 Edinburgh S Dr. Suite 151, Cary NC  
(Exit 98B off of US 1)  
[www.woodworkingshop.com](http://www.woodworkingshop.com)  
*10% discount excluding lumber and power tools*

## **Raleigh Saw**

919-832-2248  
5805 C Departure Dr.  
Raleigh, NC 27616  
[www.raleighsaw.com](http://www.raleighsaw.com)  
*10% discounts on all new products*

## **Tarheel Wood Treating Co.**

919-467-9176  
10309 Chapel Hill Rd. (Highway 54)  
Morrisville, NC 27560  
[www.tarheelwoodtreating.com](http://www.tarheelwoodtreating.com)  
*Contractor's prices on all wood products*  
TWA card before order is written

## **Woodcraft**

919-781-1911 Fax: 919-781-1980  
4317 Pleasant Valley Rd.  
Raleigh, NC 27612  
[raleighwoodcraft@bellsouth.net](mailto:raleighwoodcraft@bellsouth.net)  
<http://www.woodcraft.com>  
*\$25 gift certificate at each TWA meeting for the raffle*

## **Woodworker's Supply of NC**

336-578-3001  
Mail order: 1-800-645-9292  
3663 Alamance Rd.  
Burlington, NC 27215  
[www.woodworker.com](http://www.woodworker.com)

## **Wurth Wood Group**

919-231-6620  
4213 Poole Rd. (Exit 15 off I-440)  
Raleigh, NC 27610  
[www.wurthwoodgroup.com](http://www.wurthwoodgroup.com)