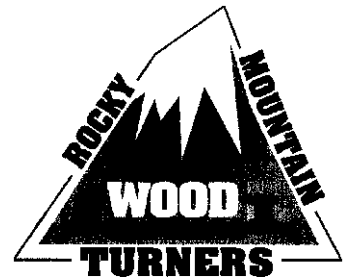




**Rocky Mountain Woodturners**  
*A chapter of the American Association of  
Woodturners*  
**August 2009 Newsletter**



### **Contents of Newsletter**

- Next RMWT Meeting, Demonstrator  
RMWT Activities
- Shop Tours
- July Demo, Crafting a Cryptex
- Member's web sites, sources of woodturning  
Instruction and discounts.

### **Next RMWT Meeting**

The next meeting of the RMWT will be on August 6, 2009. The demonstrator will be Nick Cook, he *is a nationally known woodturner from Georgia. Check out [www.nickcookwoodturner.com](http://www.nickcookwoodturner.com) for information on him and his classes. This will be an opportunity not to miss!*

*\* Nick will be doing a hand on class at Lee Carter's place in LaPorte on Thursday, August 6th (9:30-5:00) and Friday August 7th (9:00-4:30).*

*\* The cost will be \$100 per student per day.*

*\* You can sign up for both days if you'd like.*

*\* Space is limited so please contact Trent Bosch at [trentbosch@yahoo.com](mailto:trentbosch@yahoo.com) or 568-3299 to sign up.*

### **RMWT Meetings**

Each month the Rocky Mountain Woodturners meet at Woodcraft of Loveland, located at 3718 Draft Horse Drive, Loveland, Colorado. We meet on the first Thursday after the first Tuesday of each month.

### **Meeting Format**

6:00 – 6:30 – Setup and Social Time, come visit, share ideas and ask questions

6:30 – 7:00 – The general business meeting.

7:00 – 8:30 – Demonstrator time.

8:30 – 9:00 – Clean up and out by 9 pm sharp!

### **Scheduled Meeting Demonstrators**

- August 6, Nick Cook, topic to be announced. We are also planning an all day workshop. See RMWT web site for details.

### **2009 Officers, Directors and Committees**

President: Drew Nichols

## **RMWT Activities** **Shop Tours**



### **Estes Park Shop Tour** Reported by Aaron J Rees

The shop tours at Roger Schuett and John Lynch's shop were a great opportunity to see how other people set up their shop. John's shop has his gallery above it so we also got to see a lot of his finished work. I got to see how Roger and John setup their shops, and some work they have done. There are so many ideas that I got for things to do in my shop from organizing my tools to pieces to turn.

I appreciate the effort that David Nittmann is putting into organizing the tours and the people that have opened their shops for us to visit.

I would like to encourage everyone to try to get to the shop tours.

### **August Shop Tour**

Pete Herman will host the August Shop Tour. The tour will be August 15 at 10 AM. His address is 1762 Rhyolite St. Loveland. Rhyolite is off of Boise St. (McGraff's restaurant is on the corner), south of Rte. 34. Go down Boise and make a left on 4th Street. Immediately turn right on to Blue

970-566-4662

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### **Wood Bank**

Chairmen:

Azurite. Follow the curve and Blue Azurite turns into Rhyolite. His house is opposite the large communal mailbox.

## Crafting a Cryptex Demonstration by John Giem.

Reported by Aaron J Rees

John first saw an article on the Cryptex in a scroll saw magazine and decided to try and adapt it to the lathe. His first was a duplication for the Cryptex in the article with



the supporting structure on the outside. Then the Cryptex evolved to have the supporting structure integrated inside.

The Cryptex is made of three layered or nested cylinders: code rings, a backbone tube, a box tube. Start on the outside and work your way in. Use the previous cylinder as a gauge to size the outside of the next cylinder in.



Start by making the rings. Take a block and make a tenon in your chuck. Then hollow the block with a 1 1/2" Forstner bit

and slow speed, about 300 rpm, to keep the heat down. Remember to clear the wood chips often. If you need to use an extension for the Forstner bit start without the extension, as the bit length get longer it is prone to wander. Now

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John Giem,  
223-0844, home  
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### RMWT Symposium

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### RMWT Webmaster

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bring up the tail stock with a cone center to support the block. Turn the blank down to about 2" in diameter. The minimum wall thickness for any tube is 1/8".

Now is the time to mark the divisions for the letters on the rings. John demonstrated using the indexing built into the lathe, refer to the instructions on the indexing of your lathe for this. Put the indexing pin into the lathe and use the tool rest to draw a line down the blank. Then move to the next position and mark it. Continue until you get around the blank. Use the same tool rest setting and pencil angle.

Mark the length of the rings, John used dividers to put a mark every 1/2", when parted off using a 1/8" parting tool the remaining ring will be about 3/8. Make as many rings as will fit on your blank, extras are always nice to have. Make a mortise in the ring blank using a 1 3/4" Forstner bit about 3/16" deep. Part off the ring, numbering it on the inside. The mortise is the area that the pins will be in. John uses 6 rings, 5 that turn and the 6<sup>th</sup> is stationary and is used for the alignment marker. Make extras.



Next came the backbone tube, this is the piece that forms the structure for the turning rings. Again start by forming a tenon for mounting the tube in the chuck. Once mounted in the chuck bore it out using a 1 1/8" Forstner bit, starting with out an extension initially then add the extension to finish getting the full depth needed. Now urn the tube down to 1 1/2" diameter using the cone center in the tail stock for support. Leave flats near the chuck to make drilling the pin holes easier.

Trial fit the rings on the backbone tube



The box tube and base are next. Start with a tenon to mount in the chuck. Once mounted in the chuck round down the end to make the box tube, leaving flat areas near the chuck for drilling the pins. Drill the box tube with a 7/8" Forstner bit.

Now that the tubes and rings are made, mark the rings with the letters or symbols that you want. Notch out the inside of the ring under the letters of your code word.

Stack the code rings in order on the backbone and insert box tube. Mark the backbone tube at the edges of the code rings for positioning locking pins.



Now drill the holes for the pins using a 1/16" drill bit. The square ends of the backbone and box tubes will make drilling easier.

Cut the backbone tube to length, then cut a slot for the passage of the locking pins, do not cut the slot the full length of the backbone tube.

Insert the pins in the box tube and trim to length. Trial fit the backbone tube and code rings making any adjustments to the pin length, slot width and notch width.

Turn the base to shape.

Cut a mortise into the bottom of the top cap. Fit it to the backbone tube. Turn the top cap to shape.



Trial fit the pieces again and check the operation and make any last adjustments before final assembly and finishing. Before installing the code rings carefully wax the backbone tube where the turning rings will be, leave the area for the fixed ring unwaxed for gluing. Finish the assembly and finish your Cryptex.

Materials list:

Top	Wood A	2 1/2" x 2 1/2" x 3"
Backbone Tub	Wood, stable	2 1/2" x 2 1/2" x 4"
Combination Rings	Wood B	2 1/2" x 2 1/2" x 5"
Base & Box Tube	Wood A	2 1/2" x 2 1/2" x 5"
Locking Pins	4d Finish Nails	

**10% Guild discount**

Wood Emporium  
618 N Garfield Ave Loveland,

Sears Trostel  
1500 Riverside Ave  
Ft. Collins, CO 80524

Rockler's in Denver – You have to show your membership card.

Woodcraft  
3718 Draft Horse Drive  
Loveland, CO 80538  
970-292-5940  
Discounts on day of Club Meeting.

Clubs and Member's Websites

Rocky Mountain Wood Turners  
[www.rmwt.org](http://www.rmwt.org)

AAW – American Assoc of Woodturners  
[www.woodturner.org](http://www.woodturner.org)

Trent Bosch  
[www.trentbosch.com](http://www.trentbosch.com)

David Nittmann

[www.davidnittmann.com](http://www.davidnittmann.com)

Cindy Drozda

[www.cindydrozda.com](http://www.cindydrozda.com)

John Lynch

[www.johnlynchwoodworking.com](http://www.johnlynchwoodworking.com)

Curt Theobald

[www.curttheobald.com](http://www.curttheobald.com)

Katherine Kowalski

<http://www.DaystarHandworks.com>

Want your Website Listed? Contact a member of the Newsletter Team!!!

#### Learn From the Best...

Our Club, RMWT, is known around the nation because we have some of the best turners, nationally known demonstrators and best teachers of Basic Turning, Intermediate, and Advanced and Specialty turning right here in our own back yard.

#### *Trent Bosch Woodturning Workshops*

Workshops are held in Trent's studio in Fort Collins, Colorado. There is a maximum of four people in each class, which allows for lots of individualized instruction. The cost is \$500 for the 3-day intensive workshop and \$650 for the 4-day. Meals are also provided at no extra charge. His studio is also equipped with the highest quality equipment available for your use. For detailed information on workshops visit [www.trentbosch.com](http://www.trentbosch.com) or contact Trent via email or phone.

Trent Bosch

Trent Bosch Studios Inc.

[trent@trentbosch.com](mailto:trent@trentbosch.com)

970 568 3299

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**Lee Carter** operates the **Rocky Mountain School of Woodturning** in LaPorte, Colorado. He offers classes in Basics, Intermediate and Advanced. Lee also offers private tutoring. Seven different brands of lathes are available.

Call Lee Carter at 970-221-4382 to sign up or have him answer any questions.

e-mail [LLJTC4X4149@CS.COM](mailto:LLJTC4X4149@CS.COM)

**Curt Theobald** offers three-day workshops in Segmented Woodturning in his studio in Pine Bluffs, Wyoming.

Call Curt Theobald at 307.245.3310

E-mail [cwtheobald@wyoming.com](mailto:cwtheobald@wyoming.com)

Website is [www.curttheobald.com](http://www.curttheobald.com)

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**John Giem, Woodworker**

Individual or small group woodworking instruction customized to the needs of the student. Offering both woodworking on the lathe and combined with regular power tools. Classes are held in John's workshop in Fort Collins, CO, which is equipped with a complete set of woodworking tools. Contact John to discuss your interests and needs.

[jqiem@comcast.net](mailto:jqiem@comcast.net)

(970)223-0844, home phone

(970)227-6618, cell phone

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**Woodcraft** has classes for beginners in woodworking, shop safety, intro the machines, bowl turning, pen and pencil turning, hollow forms, Christmas tree ornaments, tool sharpening, etc. Please check out the class being offered at web page

[www.woodcraft.com/stores/store.aspx?id=56](http://www.woodcraft.com/stores/store.aspx?id=56)