

# The NEMES

NEW ENGLAND MODEL ENGINEERING SOCIETY INC.

# Gazette

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## Presidents Corner

Victor Kozakevich

Tuesday ! The meeting is **Tuesday!**

Through some error in communication, the Waltham Library is reserved for Tuesday December 2.

I hope everyone is flexible enough to allow for the break in tradition.

Our speaker for the evening will be a representative from Reynolds Advanced Materials, a company specializing in alternative molding materials for casting. You're probably familiar with rammed sand molds. Since you know all about that, we'll be discussing everything else, from high tech plasters for casting stone equivalent to rubber molds for casting plastic , wax investments or metal filled resins. A couple members have attended the seminars that Reynolds holds at their Boston office.

We need to finalize plans for our model show, that being at minimum, a place and date. I hope all the people involved in the show will be able to make the December meeting. I've also gone ahead and reserved the library on January 8 ( a Thursday !) for a possible meeting to cover any final show details. I'd like to discuss if the 1/8 meeting should be a Poster Session, or schedule a speaker.

**Tuesday, DEC 2, 2014**

Waltham Library  
725 Main Street  
Waltham, Massachusetts

## Membership Info

New members welcome! Annual dues are \$25 (mail applications and/or dues checks, made payable to "NEMES", to our Treasurer Richard Baker) Annual dues are for the calendar year and are due by December 31<sup>st</sup> of the prior year (or with application).

Missing a Gazette? Send a US mail or email to our publisher. Contact addresses are in the left column.

### Issue Contributions Due

JAN	DEC 18, 2015
FEB	JAN 22, 2015
MAR	FEB 19 2015

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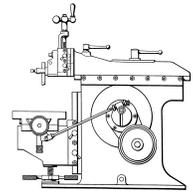
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## Club Business

Rich Baker

**Dues.** It's that time of year again. We will start collecting the 2015 dues at the November meeting. Please bring your \$25 check or you can try out our credit card system.



## Metal Shapers

Kay Fisher

### R. G. Sparber's Gingery Shaper - Part 56

#### The Downfeed Dial

I'm not much for engraving but wanted a nice looking dial for the downfeed.



Down Feed Dial Photo by R. G. Sparber

I have not added a pointer yet. The set screw coming out the right side permits me to rotate the dial relative to the shank and then secure it so as to have a reset-able zero.

The scale was generated with designCAD Express® and printed out on white paper. I then took the paper to Office Max and had them print it mirror image on clear plastic using their laser printer. In this way the printed side was protected by the plastic as I flipped it over to read non-mirror. A paper cutter was used to precisely trim it to fit.



Dial Parts Photo by R. G. Sparber

There is nothing special about this lathe work. The top and bottom are CRS. The recesses are 0.05" deep and cut with a boring bar. The plastic is Delrin®. The plastic scale is 0.005" thick so there is a 0.006" difference in radius between the plastic puck and the ID of the recesses. The puck was turned to exactly 1.000" diameter to match the scale which is 3.146" long (circumference = pi x diameter).



Top & Bottom Parts Photo by R. G. Sparber



Early Attempts Photo by R. G. Sparber

I don't want to leave you with the impression that all went smoothly here. It took a few false tries to get the final product. My first try was with a 0.1" thick washer that contained a 0.05" high boss. This was going to be my pointer support, but it is not very useful. I plan to go with a simple steel pointer.

I then tried turning the body from a single piece of aluminum. The label was going to fit in a channel with beveled edges. The bevel was cut using my parting tool set at 20 degrees. There was not enough lip, so the plastic would not stay in place. I also had a bit of trouble getting the puck the right diameter. This plastic is soft so the chuck jaws distorted it. In the end I put the second puck on a mandrel and reduced it to 1.000" with a file.

Stay Tuned for part 57 from R. G. Sparber next month.

Keep sending me email with questions and interesting shaper stories.

My email address is:

[KayPatFisher@gmail.com](mailto:KayPatFisher@gmail.com)

Kay



## Upcoming Events

Bill Brackett

To add an event, please send a brief description, time, place and a contact person to call for further information to Bill Brackett at:

[thebracketts2@gmail.com](mailto:thebracketts2@gmail.com) or 207-865-1347.

Dec 2nd Tuesday 7PM  
NEMES Monthly club meeting

Dec 13<sup>th</sup> 1PM  
Annual NEMES Banquet  
Woodsmans Restaurant  
Essex MA

Jan 1st New Years day run  
Waushakum Live Steamers  
Holliston MA.

Jan 8th Thursday 7PM  
NEMES Monthly club meeting

Jan 24-25th  
Amherst Railway Society Big Railroad Hobby Show  
Eastern States Exposition, West Springfield, MA.  
<http://www.amherstrail.org/>



## MEMBERSHIP FORM

For 2015 Calendar Year

NEW	RENEWAL	PAPER COPY	E-MAIL COPY
NAME _____			
ADDRESS 1 _____			
ADDRESS 2 _____			
ADDRESS 3 _____			
CITY _____		STATE _____	ZIP _____
HOME PHONE_(_____)_____			
WORK PHONE_(_____)_____			
E-MAIL_____			

Please enclose form in an envelope along with \$25 cash or check made payable to NEMES.

Dues can be brought to our next meeting or mailed to our treasurer:

**Richard Baker**  
**288 Middle St.**  
**West Newbury, MA 01985**