

# The NEMES Gazette

NEW ENGLAND MODEL ENGINEERING SOCIETY INC.

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## Editor's Desk

Victor Kozakevich

Well, the mountain of snow at the end of the driveway has finally melted. It must mean spring is near. But this being New England, an early spring is as likely as the Red Sox winning the World Series.

My shop needs a spring cleaning desperately, hopefully leading to some needed space for a few neglected projects. Maybe ebay is a good way to get rid of stuff as well as acquire it.

Speaking of the web, my computer got infected with an annoying little "adware" virus that defied removal. But in the end, after several attempts, I won! The lesson is add a firewall and prevent the problem in the first place.

For those not on the NEMES mail list server, there have been discussions about the possibility of the club buying a video projector and also about enhancing our website. I hope that both will be brought up at the meeting. It seems we have some opportunities to consider.

See you Thursday.

## Next Meeting

Thursday, March 3, 2005

7:00 PM. Meetings held at:  
 Charles River Museum of Industry  
 154 Moody Street  
 Waltham, Massachusetts

## Membership Info

Annual dues of \$25 (via checks made payable to "NEMES" and mailed to our treasurer) for the calendar year are due by December 31<sup>st</sup> of the prior year.

Missing a Gazette? Send mail or email to our publisher.

Addresses are in the left column.

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## ***President's Corner***

Norm Jones

### **The Meeting**

Our speaker for the March meeting will be Bob Bouley. Bob's subject will be Electrical Discharge Machining (EDM). Bob is an applications engineer with Methodes Machine Tool Co. in Sudbury MA. His topics will include a brief history of Funac and Methodes Machine Tool Co., how conventional EDM differs from wire EDM, and a discussion of various applications of EDM technology in industry today. Bob will also have an assortment of very impressive samples to pass around that have been made using various EDM fabrication techniques.

### **A Saturday Morning Phone Call**

Dave Barbuto called me on February 12 looking for information regarding our Model Engineering Show to be held on February 19. His first inquiry was, did he have the right person! I assured him that he indeed did. During the course of our conversation, I felt that Dave might like to be an exhibitor at our show. It seems that Dave is the original designer, who twenty five years ago came up with the 5C expandable arbor. He has been supplying Manhattan Tool Supply and MSC with product for years. Dave has a brand new addition to his lineup in the form of a 5C stop set. This is a valuable asset if you are looking for repeatability. Dave has been retired since 2000. You would never know it, from his owning and operating Quality Controls, a machine shop and valve company that he had for forty years.

Dave then told me about one of his retirement ventures. Dave's son Jim runs Breakheart Tool Co. in Tilton NH. Prior to this conversation, I was not aware of Breakheart Tool. It reminds me of a candy store for those of us in this hobby. They carry new woodworking machinery and used machinery of all kinds, with three more warehouses full in reserve if you can't find what you need in the main store!

Breakheart Tool Co. is located at 515 West Main St. Tilton NH 03276. Hours are Tuesday, Wednesday, Thursday, and Friday from 9AM to 6PM and Saturday 9AM to 4PM. Phone number is (800) 746 8767. They have been in business for 10 years now. Where have I been? A trip to this "tool lovers paradise" is in order. For further reading, there is an article about Breakheart Tool in the February 2002 Gateway magazine.

By the way, we talked for about an hour and a half that day. It's a small world! As usual, we have similar acquaintances. I will have met Dave by the time you read this, in that he is planning on coming to the show. "The original reason for the call"

See you on March 3.

*Norm*



## ***The Meeting***

Max ben-Aaron

### ***The March meeting***

#### **Show and Tell**

Jeff DelPappa told of his team's trip to the annual Punkin Chunkin event in Delaware. They took first prize in the human powered centrifuge event and third in the ballista.

Ron Ginger came up next and offered to organize a bus trip to the NAMES model show in Detroit; as the show will be moving to Bowling Green, Ohio next year. A minimum of 25 people would need to sign up. Trip would be via Brush Hill bus, departing Grove Street station the Wednesday prior to the show. The bus would stop for the night at Niagara Falls, Canada side. Thursday morning would start with a side trip to the Hydro station

that started the 1965 blackout, followed by a tour of the Hamilton Steam and Technology Museum. The bus would arrive in Detroit later on Thursday. Friday's schedule includes a visit to the Henry Ford Museum, a special Ford factory tour and then off to the NAMES hall late on Friday. The return trip starts 3:00 PM Sunday, then overnight in Niagara Falls with the return to Boston on Monday. The bus costs about \$200 each, so the total, including five nights hotel, would be about \$575. Show dates are April 24-25.

Rollie Gaucher was next with a tale of a small Chinese lathe purchased for his grandson. He had considered the Sherline, but the starting price is \$550 and many accessories are needed on top of that. After receiving the Chinese lathe, he took it apart, surface ground the ways, then cleaned and reassembled it. Rollie added the comment that if you treat a Chinese machine tool as a casting kit, you won't be disappointed. The lathe has a variable speed DC motor with two ranges and is twelve inches center to center. Some accessories are available and there are many websites offering tips and modifications.

Ron Ginger came up again to tell us about a recent model project: a wooden skiff whose parts were made on a CNC router. Back in 1989-90 Ron experimented with laser cutting boat kit parts. He then started building up CNC systems and came up with an effective vacuum table based on pegboard. Ron also showed some photos from a project to rotate the tires on a Boothbay Railway Village locomotive. This is a two foot gauge amusement park train. The right front tire is always the first to wear out, as the train runs on a circle track. The facility has large lathes to face off and make new tires, as well as the means to swap tires around to even the wear. They use a fire ring to expand the tire. After seven minutes of heating, the tire falls off. After heating the tire for nine minutes at 300 degrees, the tire drops onto the wheel. Ron mentioned that the Boothbay Railway is building a new boiler for a locomotive on the Wiscasset Railway, another narrow gauge railway that NEMES heard about last year.

Ron's next topic involved investment casting. He explained the need for a set of bronze thimbles for restoring a ship's rigging, a part easily purchased a hundred years ago, but now nearly extinct. One example of the part was available, so he used sheets of vulcanizing rubber to make a mold. He had injected wax into the mold and

showed the wax model. Ron explained he was still experimenting with injection pressures to perfect the technique. Eventually parts will be cast in bronze.

### **The Speaker**

Our speaker for the evening was Jack Malcom on the subject of collecting. He came to us after he had contacted NEMES looking for a speaker for the antique car club he belongs to. Jack is a member of the Automobile club of Maynard, MA. He explained the club started out about seventeen years ago with 68 members. The membership is now up to about 200, but the number is limited to the capacity of the club's coffee maker. The group meets the second Wednesday of the month at the Maynard Rod and Gun Club.

Jack is a collector of Hoodsie lids. "Hoodsies" are single-serving ice cream sold with a flat wooden spoon. His collecting started after he noticed that the new cups no longer included a picture under the lid. He started looking for the earlier versions on ebay under advertising, and five years later his collection is up around four hundred fifty.

In 1925, The Dixie Company created a container to keep ice cream, and the single serving sold for five cents. The Dixie cup was developed around 1907 by a Harvard student named Lawrence Luellen, as a disposable paper drinking cup, intended to do away with the disease-spreading communal drinking cups often used at wells and public fountains. The flu epidemic at the end of World War I further drove public demand. Originally known as the Health Kup, the company changed the name to Dixie Cup in 1919, borrowing the name from the Dixie Doll Company. It was soon realized that the disposable cup made an excellent container for individual servings of ice cream.

In 1928, the company started to put pictures on the underside of the lid. The process was patented in 1929 and involved putting a piece of waxed paper or cellophane under the lid to preserve the picture and not transfer the ink to the ice cream. The lid also included a pull tab at the edge to help lift it. The "Hoodsie" cup, the single serving of HP Hood ice cream, was an East Coast product only. Other ice cream companies offered their product in the Dixie cup as well. In 1930, the first picture lid appeared, with the product offering a series of twelve pictures of circus animals from

a radio show, "The Dixie Circus", sponsored by the Dixie Company. Back then, the added incentive to collect the lids was that The Dixie Company would send you one of twenty-four color pictures if you sent in twelve lids. A kid would have to eat 288 Hoodsies to get all twenty-four pictures.

In 1931, the radio show and the lid promotion continued, with lid pictures now up to twenty four including new animals as well as circus performers. The redeemables now included circus cut-outs and puzzles. You now needed to consume 672 Hoodsies for the entire collection. 1932 was the year of nature lids, but the program was much less successful. In 1933, Dixie struck gold when they cut a deal with the movie studios to put movie star's pictures on the lids at no licensing cost to Dixie, producing a virtual ice cream monopoly for over twenty years. The photos included the most popular stars of the day including Jean Harlow and Clark Gable. Some years offered as many as fifty-two different stars. The line expanded to four different sizes of lids, and the premiums included black and white pictures with the star's biographies on the back and even scrapbook covers to hold your collection. World War II led to four years of war lids, including aircraft, ships, famous battles and pinups. With rationing of fats during the war, the ice cream companies switched from ice cream to sherbet.

The 1950s saw the addition of television stars and sports figures. In their last year, 1954, 3D pictures appeared, which required the left and right lid image plus a viewfinder.

The hobby of lid collecting has grown and is included in "The Icecreamist", a newsletter for collectors of ice cream memorabilia. The collectibles include the lids themselves, as well as the various premiums that could be redeemed by sending in the lids. Prices for the rarer lids can reach several hundred dollars. Other items collected are the forms with sleeves to collect the lids in, with spaces to indicate your choice of movie star picture. Some people collect the uncut lid sheets left over at the end of the printing run. The movie star photos are sought not only by the Hoodsie collectors, but also by collectors of movie memorabilia.

You can find a history of Dixie's picture lids at:  
<http://www.go-star.com/antiquing/dixiecup.htm>

*Vic Kozakevich for Max*



## ***Treasurer's Report***

Rob McDougall

As of 1/31/2005

Balance as of: 12/31/2004	<b>\$7,020.28</b>
Dues Received	1,275.00
Cabin Fever Buffet tickets	78.75
Cabin Fever Bus tickets	500.00
Cabin Fever Buffet Cost	-546.84
Gazette Nov 04	-169.47
Gazette Dec 04	-187.36
Bank Charge – Cdn Check	-5.00
Balance as of: 1/31/2005	<b>\$7,965.36</b>

Dues continued to come in throughout January. Please remember at the end of this year that dues are due by December 31<sup>st</sup>. Members not paid up by printing time for the February 2006 Gazette will not receive one. We certainly don't want to lose members. However, some cut off needs to be used to be fair to members who do pay on time.

*Rob*



## *In the News*

### *Model Section Added To Gas Engine Magazine*

Many of us are familiar with Gas Engine Magazine (GEM) as a publication devoted solely to the hit-and-miss hobby. They changed ownership a couple of years ago and the magazine has really been spruced up.

Last year, they added a nice "Modeler's Corner". They regularly run short articles on people's projects and are currently running a detailed "how to" series on building a 1/4-scale Redwing engine. They solicit contributions. This is a great place to show off some of your projects.

GEM is published monthly. It costs \$25.00 per year. Their address is; Gas Engine Magazine, Ogden Publications, 1503 SW 42<sup>nd</sup> Street, Topeka KS 66609-9925

Contributed by Jim Paquette

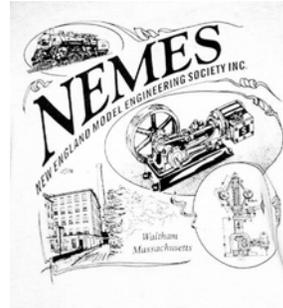


## *For Sale*

### *Shaper Work CD*

Put out in 1944 by the New York State education Department this 326 page manual is chock full of valuable tips and information on using the King of Machine tools....The Shaper. Covered is everything you need to know about the care and feeding of the shaper, use of the shaper, even how to sharpen tools for the shaper. Scanned and saved in Adobe Acrobat format. \$5.00 shipping included.

Errol Groff  
180 Middle Road  
Preston, CT 06365 8206  
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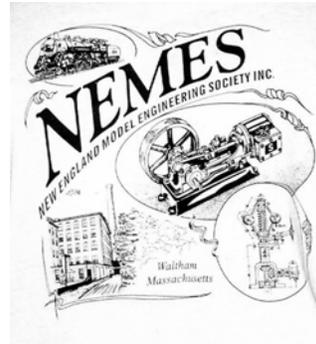


## *NEMES clothing*

### *NEMES Tee Shirts*

NEMES tee shirts and sweat shirts are available in sizes from S to XXXL. The tee shirts are gray, short sleeve shirt, Hanes 50-50. You won't shrink this shirt! The sweat shirts are the same color, but long sleeve and a crew neck. Also 50-50, but these are by Lee. The sweat shirts are very comfortable!

Artwork by Richard Sabol, printed on front and back:



Rear

Front

Prices:

	Tee Shirts	Sweat Shirts
S - L	\$12.00	\$22.00
XXL	\$14.00	\$24.00
XXXL	\$15.00	\$25.00

Add \$5 shipping and handling for the first tee shirt, \$1 for each additional shirt shipped to the same address. Sweat shirts are \$7 for shipping the first, and \$1.50 for each additional sweat shirt.

Profits go to the club treasury.

Mike Boucher  
10 May's Field Rd  
Lunenburg, MA 01462-1263  
[mdbouch@hotmail.com](mailto:mdbouch@hotmail.com)

## *NEMES Shop Apron*



Look your best in the shop! The NEMES shop apron keeps clothes clean while holding essential measuring tools in the front pockets. The custom strap design keeps weight off your neck and easily ties at the side. The apron is washable blue denim with an embroidered NEMES logo on top pocket.

Contact Rollie Gaucher 508-885-2277



## *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 [wbracket@rcn.com](mailto:wbracket@rcn.com) or (508) 393-6290.

March 3<sup>rd</sup> Thursday 7PM  
NEMES monthly club meeting  
Charles River Museum of Industry, Waltham, MA  
781-893-5410

March 4<sup>th</sup> 8:30AM-5PM and March 5<sup>th</sup> 8:30AM-4PM  
2005 FIRST Robotics Competition Regional Events  
Verizon Wireless Arena  
555 Elm Street Manchester, NH  
<http://www.baesystemsfirst.org/regional/schedule.htm>

April 7<sup>th</sup> Thursday 7PM  
NEMES monthly club meeting  
Charles River Museum of Industry, Waltham, MA  
781-893-5410

April 17<sup>th</sup> MIT Flea Market  
Albany Street Garage, Cambridge MA.  
<http://web.mit.edu/w1mx/www/swapfest.html>

April 23-24 NAMES Expo  
Southgate MI  
[www.modelengineeringsoc.com](http://www.modelengineeringsoc.com)

*Bill*



## *Web Sites of Interest*

Sign up for the NEMES mailing list at:  
<http://groups.yahoo.com/group/nemes>

Chris Heapy of Macclesfield UK assembled a great website of modeling tips and projects. There's great material here for beginning machinists and also experienced modelers.  
<http://easyweb.easynet.co.uk/~chrish/>

Ever wonder how to hook up that electric motor? This website has diagrams for many types of motors.  
[http://shop.emotorstore.com/estore/TD\\_Schematic\\_Diagrams.asp](http://shop.emotorstore.com/estore/TD_Schematic_Diagrams.asp)

Here is the CNC machine everyone needs: a CNC graffiti machine!  
<http://www.hektor.ch/>